

Atomic Multipoles (spinful JML basis)

$$\text{bra:} = |\frac{1}{2}, \frac{1}{2}; s\rangle, |\frac{1}{2}, -\frac{1}{2}; s\rangle$$

$$\text{ket:} = |\frac{1}{2}, \frac{1}{2}; s\rangle, |\frac{1}{2}, -\frac{1}{2}; s\rangle$$

Table 1: (s,s) block.

No.	multipole	matrix				
1	$Q_{0,0}^{(a)}$	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr><td style="padding: 2px 5px;">1</td><td style="padding: 2px 5px;">0</td></tr> <tr><td style="padding: 2px 5px;">0</td><td style="padding: 2px 5px;">1</td></tr> </table>	1	0	0	1
1	0					
0	1					
2	$M_{1,1}^{(1,-1;a)}$	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr><td style="padding: 2px 5px;">0</td><td style="padding: 2px 5px;">$-\sqrt{2}$</td></tr> <tr><td style="padding: 2px 5px;">0</td><td style="padding: 2px 5px;">0</td></tr> </table>	0	$-\sqrt{2}$	0	0
0	$-\sqrt{2}$					
0	0					
3	$M_{1,0}^{(1,-1;a)}$	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr><td style="padding: 2px 5px;">1</td><td style="padding: 2px 5px;">0</td></tr> <tr><td style="padding: 2px 5px;">0</td><td style="padding: 2px 5px;">-1</td></tr> </table>	1	0	0	-1
1	0					
0	-1					
4	$M_{1,-1}^{(1,-1;a)}$	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr><td style="padding: 2px 5px;">0</td><td style="padding: 2px 5px;">0</td></tr> <tr><td style="padding: 2px 5px;">$\sqrt{2}$</td><td style="padding: 2px 5px;">0</td></tr> </table>	0	0	$\sqrt{2}$	0
0	0					
$\sqrt{2}$	0					

$$\text{bra:} = |\frac{1}{2}, \frac{1}{2}; s\rangle, |\frac{1}{2}, -\frac{1}{2}; s\rangle$$

$$\text{ket:} = |\frac{1}{2}, \frac{1}{2}; p\rangle, |\frac{1}{2}, -\frac{1}{2}; p\rangle, |\frac{3}{2}, \frac{3}{2}; p\rangle, |\frac{3}{2}, \frac{1}{2}; p\rangle, |\frac{3}{2}, -\frac{1}{2}; p\rangle, |\frac{3}{2}, -\frac{3}{2}; p\rangle$$

Table 2: (s,p) block.

No.	multipole	matrix												
5	$Q_{1,1}^{(a)}$	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr><td style="padding: 2px 5px;">0</td><td style="padding: 2px 5px;">$\frac{\sqrt{2}}{3}$</td><td style="padding: 2px 5px;">0</td><td style="padding: 2px 5px;">0</td><td style="padding: 2px 5px;">$-\frac{1}{3}$</td><td style="padding: 2px 5px;">0</td></tr> <tr><td style="padding: 2px 5px;">0</td><td style="padding: 2px 5px;">$-\frac{\sqrt{3}}{3}$</td></tr> </table>	0	$\frac{\sqrt{2}}{3}$	0	0	$-\frac{1}{3}$	0	0	0	0	0	0	$-\frac{\sqrt{3}}{3}$
0	$\frac{\sqrt{2}}{3}$	0	0	$-\frac{1}{3}$	0									
0	0	0	0	0	$-\frac{\sqrt{3}}{3}$									
6	$Q_{1,0}^{(a)}$	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr><td style="padding: 2px 5px;">$-\frac{1}{3}$</td><td style="padding: 2px 5px;">0</td><td style="padding: 2px 5px;">0</td><td style="padding: 2px 5px;">$\frac{\sqrt{2}}{3}$</td><td style="padding: 2px 5px;">0</td><td style="padding: 2px 5px;">0</td></tr> <tr><td style="padding: 2px 5px;">0</td><td style="padding: 2px 5px;">$\frac{1}{3}$</td><td style="padding: 2px 5px;">0</td><td style="padding: 2px 5px;">0</td><td style="padding: 2px 5px;">$\frac{\sqrt{2}}{3}$</td><td style="padding: 2px 5px;">0</td></tr> </table>	$-\frac{1}{3}$	0	0	$\frac{\sqrt{2}}{3}$	0	0	0	$\frac{1}{3}$	0	0	$\frac{\sqrt{2}}{3}$	0
$-\frac{1}{3}$	0	0	$\frac{\sqrt{2}}{3}$	0	0									
0	$\frac{1}{3}$	0	0	$\frac{\sqrt{2}}{3}$	0									

continued ...

Table 2

No.	multipole	matrix
7	$\mathbb{Q}_{1,-1}^{(a)}$	$\begin{array}{ccccccc} 0 & 0 & -\frac{\sqrt{3}}{3} & 0 & 0 & 0 & 0 \\ -\frac{\sqrt{2}}{3} & 0 & 0 & -\frac{1}{3} & 0 & 0 & 0 \end{array}$
8	$\mathbb{Q}_{1,1}^{(1,0;a)}$	$\begin{array}{ccccccc} 0 & -\frac{2}{9} & 0 & 0 & -\frac{\sqrt{2}}{18} & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{6}}{18} \end{array}$
9	$\mathbb{Q}_{1,0}^{(1,0;a)}$	$\begin{array}{ccccccc} \frac{\sqrt{2}}{9} & 0 & 0 & \frac{1}{9} & 0 & 0 & 0 \\ 0 & -\frac{\sqrt{2}}{9} & 0 & 0 & \frac{1}{9} & 0 & 0 \end{array}$
10	$\mathbb{Q}_{1,-1}^{(1,0;a)}$	$\begin{array}{ccccccc} 0 & 0 & -\frac{\sqrt{6}}{18} & 0 & 0 & 0 & 0 \\ \frac{2}{9} & 0 & 0 & -\frac{\sqrt{2}}{18} & 0 & 0 & 0 \end{array}$
11	$\mathbb{G}_{2,2}^{(1,-1;a)}$	$\begin{array}{ccccccc} 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{6}i}{9} & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 \end{array}$
12	$\mathbb{G}_{2,1}^{(1,-1;a)}$	$\begin{array}{ccccccc} 0 & 0 & 0 & 0 & -\frac{\sqrt{2}i}{6} & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{6}i}{18} & 0 \end{array}$
13	$\mathbb{G}_{2,0}^{(1,-1;a)}$	$\begin{array}{ccccccc} 0 & 0 & 0 & \frac{\sqrt{3}i}{9} & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & -\frac{\sqrt{3}i}{9} & 0 & 0 \end{array}$
14	$\mathbb{G}_{2,-1}^{(1,-1;a)}$	$\begin{array}{ccccccc} 0 & 0 & -\frac{\sqrt{6}i}{18} & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & \frac{\sqrt{2}i}{6} & 0 & 0 & 0 \end{array}$
15	$\mathbb{G}_{2,-2}^{(1,-1;a)}$	$\begin{array}{ccccccc} 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & -\frac{\sqrt{6}i}{9} & 0 & 0 & 0 & 0 \end{array}$
16	$\mathbb{G}_{0,0}^{(1,1;a)}$	$\begin{array}{ccccccc} -\frac{\sqrt{3}i}{9} & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & -\frac{\sqrt{3}i}{9} & 0 & 0 & 0 & 0 & 0 \end{array}$
17	$\mathbb{T}_{1,1}^{(a)}$	$\begin{array}{ccccccc} 0 & \frac{\sqrt{2}i}{9} & 0 & 0 & -\frac{i}{9} & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{3}i}{9} \end{array}$
18	$\mathbb{T}_{1,0}^{(a)}$	$\begin{array}{ccccccc} -\frac{i}{9} & 0 & 0 & \frac{\sqrt{2}i}{9} & 0 & 0 & 0 \\ 0 & \frac{i}{9} & 0 & 0 & \frac{\sqrt{2}i}{9} & 0 & 0 \end{array}$

continued ...

Table 2

No.	multipole	matrix
19	$\mathbb{T}_{1,-1}^{(a)}$	$\begin{array}{cccccc} 0 & 0 & -\frac{\sqrt{3}i}{9} & 0 & 0 & 0 \\ -\frac{\sqrt{2}i}{9} & 0 & 0 & -\frac{i}{9} & 0 & 0 \end{array}$
20	$\mathbb{T}_{1,1}^{(1,0;a)}$	$\begin{array}{cccccc} 0 & \frac{2i}{3} & 0 & 0 & \frac{\sqrt{2}i}{6} & 0 \\ 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{6}i}{6} \end{array}$
21	$\mathbb{T}_{1,0}^{(1,0;a)}$	$\begin{array}{cccccc} -\frac{\sqrt{2}i}{3} & 0 & 0 & -\frac{i}{3} & 0 & 0 \\ 0 & \frac{\sqrt{2}i}{3} & 0 & 0 & -\frac{i}{3} & 0 \end{array}$
22	$\mathbb{T}_{1,-1}^{(1,0;a)}$	$\begin{array}{cccccc} 0 & 0 & \frac{\sqrt{6}i}{6} & 0 & 0 & 0 \\ -\frac{2i}{3} & 0 & 0 & \frac{\sqrt{2}i}{6} & 0 & 0 \end{array}$
23	$\mathbb{M}_{2,2}^{(1,-1;a)}$	$\begin{array}{cccccc} 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{6}}{3} \\ 0 & 0 & 0 & 0 & 0 & 0 \end{array}$
24	$\mathbb{M}_{2,1}^{(1,-1;a)}$	$\begin{array}{cccccc} 0 & 0 & 0 & 0 & -\frac{\sqrt{2}}{2} & 0 \\ 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{6}}{6} \end{array}$
25	$\mathbb{M}_{2,0}^{(1,-1;a)}$	$\begin{array}{cccccc} 0 & 0 & 0 & \frac{\sqrt{3}}{3} & 0 & 0 \\ 0 & 0 & 0 & 0 & -\frac{\sqrt{3}}{3} & 0 \end{array}$
26	$\mathbb{M}_{2,-1}^{(1,-1;a)}$	$\begin{array}{cccccc} 0 & 0 & -\frac{\sqrt{6}}{6} & 0 & 0 & 0 \\ 0 & 0 & 0 & \frac{\sqrt{2}}{2} & 0 & 0 \end{array}$
27	$\mathbb{M}_{2,-2}^{(1,-1;a)}$	$\begin{array}{cccccc} 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & -\frac{\sqrt{6}}{3} & 0 & 0 & 0 \end{array}$
28	$\mathbb{M}_{0,0}^{(1,1;a)}$	$\begin{array}{cccccc} -\frac{\sqrt{3}}{3} & 0 & 0 & 0 & 0 & 0 \\ 0 & -\frac{\sqrt{3}}{3} & 0 & 0 & 0 & 0 \end{array}$

$$\text{bra: } = |\frac{1}{2}, \frac{1}{2}; s\rangle, |\frac{1}{2}, -\frac{1}{2}; s\rangle$$

$$\text{ket: } = |\frac{3}{2}, \frac{3}{2}; d\rangle, |\frac{3}{2}, \frac{1}{2}; d\rangle, |\frac{3}{2}, -\frac{1}{2}; d\rangle, |\frac{3}{2}, -\frac{3}{2}; d\rangle, |\frac{5}{2}, \frac{5}{2}; d\rangle, |\frac{5}{2}, \frac{3}{2}; d\rangle, |\frac{5}{2}, \frac{1}{2}; d\rangle, |\frac{5}{2}, -\frac{1}{2}; d\rangle, |\frac{5}{2}, -\frac{3}{2}; d\rangle, |\frac{5}{2}, -\frac{5}{2}; d\rangle$$

Table 3: (s,d) block.

No.	multipole	matrix
29	$\mathbb{Q}_{2,2}^{(a)}$	$\begin{array}{cccccccccc} 0 & 0 & 0 & -\frac{2}{5} & 0 & 0 & 0 & 0 & \frac{1}{5} & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{3}}{5} \end{array}$
30	$\mathbb{Q}_{2,1}^{(a)}$	$\begin{array}{cccccccccc} 0 & 0 & \frac{\sqrt{3}}{5} & 0 & 0 & 0 & 0 & -\frac{\sqrt{2}}{5} & 0 & 0 \\ 0 & 0 & 0 & -\frac{1}{5} & 0 & 0 & 0 & 0 & -\frac{2}{5} & 0 \end{array}$
31	$\mathbb{Q}_{2,0}^{(a)}$	$\begin{array}{cccccccccc} 0 & -\frac{\sqrt{2}}{5} & 0 & 0 & 0 & 0 & \frac{\sqrt{3}}{5} & 0 & 0 & 0 \\ 0 & 0 & \frac{\sqrt{2}}{5} & 0 & 0 & 0 & 0 & \frac{\sqrt{3}}{5} & 0 & 0 \end{array}$
32	$\mathbb{Q}_{2,-1}^{(a)}$	$\begin{array}{cccccccccc} \frac{1}{5} & 0 & 0 & 0 & 0 & -\frac{2}{5} & 0 & 0 & 0 & 0 \\ 0 & -\frac{\sqrt{3}}{5} & 0 & 0 & 0 & 0 & -\frac{\sqrt{2}}{5} & 0 & 0 & 0 \end{array}$
33	$\mathbb{Q}_{2,-2}^{(a)}$	$\begin{array}{cccccccccc} 0 & 0 & 0 & 0 & \frac{\sqrt{3}}{5} & 0 & 0 & 0 & 0 & 0 \\ \frac{2}{5} & 0 & 0 & 0 & 0 & \frac{1}{5} & 0 & 0 & 0 & 0 \end{array}$
34	$\mathbb{Q}_{2,2}^{(1,0;a)}$	$\begin{array}{cccccccccc} 0 & 0 & 0 & \frac{\sqrt{6}}{10} & 0 & 0 & 0 & 0 & \frac{\sqrt{6}}{30} & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{30}}{30} \end{array}$
35	$\mathbb{Q}_{2,1}^{(1,0;a)}$	$\begin{array}{cccccccccc} 0 & 0 & -\frac{3\sqrt{2}}{20} & 0 & 0 & 0 & 0 & -\frac{\sqrt{3}}{15} & 0 & 0 \\ 0 & 0 & 0 & \frac{\sqrt{6}}{20} & 0 & 0 & 0 & 0 & -\frac{\sqrt{6}}{15} & 0 \end{array}$
36	$\mathbb{Q}_{2,0}^{(1,0;a)}$	$\begin{array}{cccccccccc} 0 & \frac{\sqrt{3}}{10} & 0 & 0 & 0 & 0 & \frac{\sqrt{2}}{10} & 0 & 0 & 0 \\ 0 & 0 & -\frac{\sqrt{3}}{10} & 0 & 0 & 0 & 0 & \frac{\sqrt{2}}{10} & 0 & 0 \end{array}$
37	$\mathbb{Q}_{2,-1}^{(1,0;a)}$	$\begin{array}{cccccccccc} -\frac{\sqrt{6}}{20} & 0 & 0 & 0 & 0 & -\frac{\sqrt{6}}{15} & 0 & 0 & 0 & 0 \\ 0 & \frac{3\sqrt{2}}{20} & 0 & 0 & 0 & 0 & -\frac{\sqrt{3}}{15} & 0 & 0 & 0 \end{array}$
38	$\mathbb{Q}_{2,-2}^{(1,0;a)}$	$\begin{array}{cccccccccc} 0 & 0 & 0 & 0 & \frac{\sqrt{30}}{30} & 0 & 0 & 0 & 0 & 0 \\ -\frac{\sqrt{6}}{10} & 0 & 0 & 0 & 0 & \frac{\sqrt{6}}{30} & 0 & 0 & 0 & 0 \end{array}$
39	$\mathbb{G}_{3,3}^{(1,-1;a)}$	$\begin{array}{cccccccccc} 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{10}i}{10} \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \end{array}$
40	$\mathbb{G}_{3,2}^{(1,-1;a)}$	$\begin{array}{cccccccccc} 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{3}i}{6} & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{15}i}{30} \end{array}$

continued ...

Table 3

No.	multipole	matrix
41	$\mathbb{G}_{3,1}^{(1,-1;a)}$	$\begin{array}{cccccccccc} 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{15}i}{15} & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{30}i}{30} & 0 \end{array}$
42	$\mathbb{G}_{3,0}^{(1,-1;a)}$	$\begin{array}{cccccccccc} 0 & 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{5}i}{10} & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{5}i}{10} & 0 & 0 \end{array}$
43	$\mathbb{G}_{3,-1}^{(1,-1;a)}$	$\begin{array}{cccccccccc} 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{30}i}{30} & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{15}i}{15} & 0 & 0 & 0 \end{array}$
44	$\mathbb{G}_{3,-2}^{(1,-1;a)}$	$\begin{array}{cccccccccc} 0 & 0 & 0 & 0 & \frac{\sqrt{15}i}{30} & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{3}i}{6} & 0 & 0 & 0 & 0 \end{array}$
45	$\mathbb{G}_{3,-3}^{(1,-1;a)}$	$\begin{array}{cccccccccc} 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & \frac{\sqrt{10}i}{10} & 0 & 0 & 0 & 0 & 0 \end{array}$
46	$\mathbb{G}_{1,1}^{(1,1;a)}$	$\begin{array}{cccccccccc} 0 & 0 & \frac{\sqrt{10}i}{20} & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & \frac{\sqrt{30}i}{20} & 0 & 0 & 0 & 0 & 0 & 0 \end{array}$
47	$\mathbb{G}_{1,0}^{(1,1;a)}$	$\begin{array}{cccccccccc} 0 & -\frac{\sqrt{5}i}{10} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & -\frac{\sqrt{5}i}{10} & 0 & 0 & 0 & 0 & 0 & 0 & 0 \end{array}$
48	$\mathbb{G}_{1,-1}^{(1,1;a)}$	$\begin{array}{cccccccccc} \frac{\sqrt{30}i}{20} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & \frac{\sqrt{10}i}{20} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \end{array}$
49	$\mathbb{T}_{2,2}^{(a)}$	$\begin{array}{cccccccccc} 0 & 0 & 0 & -\frac{i}{5} & 0 & 0 & 0 & 0 & \frac{i}{10} & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{5}i}{10} \end{array}$
50	$\mathbb{T}_{2,1}^{(a)}$	$\begin{array}{cccccccccc} 0 & 0 & \frac{\sqrt{3}i}{10} & 0 & 0 & 0 & 0 & -\frac{\sqrt{2}i}{10} & 0 & 0 \\ 0 & 0 & 0 & -\frac{i}{10} & 0 & 0 & 0 & 0 & -\frac{i}{5} & 0 \end{array}$
51	$\mathbb{T}_{2,0}^{(a)}$	$\begin{array}{cccccccccc} 0 & -\frac{\sqrt{2}i}{10} & 0 & 0 & 0 & 0 & \frac{\sqrt{3}i}{10} & 0 & 0 & 0 \\ 0 & 0 & \frac{\sqrt{2}i}{10} & 0 & 0 & 0 & 0 & \frac{\sqrt{3}i}{10} & 0 & 0 \end{array}$
52	$\mathbb{T}_{2,-1}^{(a)}$	$\begin{array}{cccccccccc} \frac{i}{10} & 0 & 0 & 0 & 0 & -\frac{i}{5} & 0 & 0 & 0 & 0 \\ 0 & -\frac{\sqrt{3}i}{10} & 0 & 0 & 0 & 0 & -\frac{\sqrt{2}i}{10} & 0 & 0 & 0 \end{array}$

continued ...

Table 3

No.	multipole	matrix
53	$\mathbb{T}_{2,-2}^{(a)}$	$\begin{array}{cccccccccc} 0 & 0 & 0 & 0 & \frac{\sqrt{5}i}{10} & 0 & 0 & 0 & 0 & 0 \\ \frac{i}{5} & 0 & 0 & 0 & 0 & \frac{i}{10} & 0 & 0 & 0 & 0 \end{array}$
54	$\mathbb{T}_{2,2}^{(1,0;a)}$	$\begin{array}{cccccccccc} 0 & 0 & 0 & -\frac{\sqrt{6}i}{5} & 0 & 0 & 0 & 0 & -\frac{\sqrt{6}i}{15} & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{30}i}{15} \end{array}$
55	$\mathbb{T}_{2,1}^{(1,0;a)}$	$\begin{array}{cccccccccc} 0 & 0 & \frac{3\sqrt{2}i}{10} & 0 & 0 & 0 & 0 & \frac{2\sqrt{3}i}{15} & 0 & 0 \\ 0 & 0 & 0 & -\frac{\sqrt{6}i}{10} & 0 & 0 & 0 & 0 & \frac{2\sqrt{6}i}{15} & 0 \end{array}$
56	$\mathbb{T}_{2,0}^{(1,0;a)}$	$\begin{array}{cccccccccc} 0 & -\frac{\sqrt{3}i}{5} & 0 & 0 & 0 & 0 & -\frac{\sqrt{2}i}{5} & 0 & 0 & 0 \\ 0 & 0 & \frac{\sqrt{3}i}{5} & 0 & 0 & 0 & 0 & -\frac{\sqrt{2}i}{5} & 0 & 0 \end{array}$
57	$\mathbb{T}_{2,-1}^{(1,0;a)}$	$\begin{array}{cccccccccc} \frac{\sqrt{6}i}{10} & 0 & 0 & 0 & 0 & \frac{2\sqrt{6}i}{15} & 0 & 0 & 0 & 0 \\ 0 & -\frac{3\sqrt{2}i}{10} & 0 & 0 & 0 & 0 & \frac{2\sqrt{3}i}{15} & 0 & 0 & 0 \end{array}$
58	$\mathbb{T}_{2,-2}^{(1,0;a)}$	$\begin{array}{cccccccccc} 0 & 0 & 0 & 0 & -\frac{\sqrt{30}i}{15} & 0 & 0 & 0 & 0 & 0 \\ \frac{\sqrt{6}i}{5} & 0 & 0 & 0 & 0 & -\frac{\sqrt{6}i}{15} & 0 & 0 & 0 & 0 \end{array}$
59	$\mathbb{M}_{3,3}^{(1,-1;a)}$	$\begin{array}{cccccccccc} 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{10}}{5} \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \end{array}$
60	$\mathbb{M}_{3,2}^{(1,-1;a)}$	$\begin{array}{cccccccccc} 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{3}}{3} & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{15}}{15} \end{array}$
61	$\mathbb{M}_{3,1}^{(1,-1;a)}$	$\begin{array}{cccccccccc} 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{2\sqrt{15}}{15} & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{30}}{15} & 0 \end{array}$
62	$\mathbb{M}_{3,0}^{(1,-1;a)}$	$\begin{array}{cccccccccc} 0 & 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{5}}{5} & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{5}}{5} & 0 & 0 \end{array}$
63	$\mathbb{M}_{3,-1}^{(1,-1;a)}$	$\begin{array}{cccccccccc} 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{30}}{15} & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & \frac{2\sqrt{15}}{15} & 0 & 0 & 0 \end{array}$
64	$\mathbb{M}_{3,-2}^{(1,-1;a)}$	$\begin{array}{cccccccccc} 0 & 0 & 0 & 0 & \frac{\sqrt{15}}{15} & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{3}}{3} & 0 & 0 & 0 & 0 \end{array}$

continued ...

Table 3

No.	multipole	matrix
65	$M_{3,-3}^{(1,-1;a)}$	$\begin{array}{cccccccccccc} 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & \frac{\sqrt{10}}{5} & 0 & 0 & 0 & 0 & 0 & 0 & 0 \end{array}$
66	$M_{1,1}^{(1,1;a)}$	$\begin{array}{cccccccccccc} 0 & 0 & \frac{\sqrt{10}}{10} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & \frac{\sqrt{30}}{10} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \end{array}$
67	$M_{1,0}^{(1,1;a)}$	$\begin{array}{cccccccccccc} 0 & -\frac{\sqrt{5}}{5} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & -\frac{\sqrt{5}}{5} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \end{array}$
68	$M_{1,-1}^{(1,1;a)}$	$\begin{array}{cccccccccccc} \frac{\sqrt{30}}{10} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & \frac{\sqrt{10}}{10} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \end{array}$

$$\text{bra:} = |\frac{1}{2}, \frac{1}{2}; s\rangle, |\frac{1}{2}, -\frac{1}{2}; s\rangle$$

$$\text{ket:} = |\frac{5}{2}, \frac{5}{2}; f\rangle, |\frac{5}{2}, \frac{3}{2}; f\rangle, |\frac{5}{2}, \frac{1}{2}; f\rangle, |\frac{5}{2}, -\frac{1}{2}; f\rangle, |\frac{5}{2}, -\frac{3}{2}; f\rangle, |\frac{5}{2}, -\frac{5}{2}; f\rangle, |\frac{7}{2}, \frac{7}{2}; f\rangle, |\frac{7}{2}, \frac{5}{2}; f\rangle, |\frac{7}{2}, \frac{3}{2}; f\rangle, |\frac{7}{2}, \frac{1}{2}; f\rangle, |\frac{7}{2}, -\frac{1}{2}; f\rangle, |\frac{7}{2}, -\frac{3}{2}; f\rangle, |\frac{7}{2}, -\frac{5}{2}; f\rangle, |\frac{7}{2}, -\frac{7}{2}; f\rangle$$

Table 4: (s,f) block.

No.	multipole	matrix
69	$Q_{3,3}^{(a)}$	$\begin{array}{cccccccccccccc} 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{6}}{7} & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{1}{7} & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{7}}{7} \end{array}$
70	$Q_{3,2}^{(a)}$	$\begin{array}{cccccccccccccc} 0 & 0 & 0 & 0 & -\frac{\sqrt{5}}{7} & 0 & 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{2}}{7} & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & \frac{1}{7} & 0 & 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{6}}{7} & 0 \end{array}$
71	$Q_{3,1}^{(a)}$	$\begin{array}{cccccccccccccc} 0 & 0 & 0 & \frac{2}{7} & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{3}}{7} & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & -\frac{\sqrt{2}}{7} & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{5}}{7} & 0 & 0 \end{array}$
72	$Q_{3,0}^{(a)}$	$\begin{array}{cccccccccccccc} 0 & 0 & -\frac{\sqrt{3}}{7} & 0 & 0 & 0 & 0 & 0 & 0 & \frac{2}{7} & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & \frac{\sqrt{3}}{7} & 0 & 0 & 0 & 0 & 0 & 0 & \frac{2}{7} & 0 & 0 & 0 \end{array}$

continued ...

Table 4

No.	multipole	matrix
73	$Q_{3,-1}^{(a)}$	$\begin{pmatrix} 0 & \frac{\sqrt{2}}{7} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{5}}{7} & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & -\frac{2}{7} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{3}}{7} & 0 & 0 & 0 & 0 \end{pmatrix}$
74	$Q_{3,-2}^{(a)}$	$\begin{pmatrix} -\frac{1}{7} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{6}}{7} & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & \frac{\sqrt{5}}{7} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{2}}{7} & 0 & 0 & 0 & 0 & 0 \end{pmatrix}$
75	$Q_{3,-3}^{(a)}$	$\begin{pmatrix} 0 & 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{7}}{7} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ -\frac{\sqrt{6}}{7} & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{1}{7} & 0 & 0 & 0 & 0 & 0 & 0 & 0 \end{pmatrix}$
76	$Q_{3,3}^{(1,0;a)}$	$\begin{pmatrix} 0 & 0 & 0 & 0 & 0 & -\frac{6\sqrt{2}}{35} & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{3\sqrt{3}}{70} & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{3\sqrt{21}}{70} & 0 \end{pmatrix}$
77	$Q_{3,2}^{(1,0;a)}$	$\begin{pmatrix} 0 & 0 & 0 & 0 & \frac{2\sqrt{15}}{35} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{3\sqrt{6}}{70} & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & -\frac{2\sqrt{3}}{35} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{9\sqrt{2}}{70} & 0 \end{pmatrix}$
78	$Q_{3,1}^{(1,0;a)}$	$\begin{pmatrix} 0 & 0 & 0 & -\frac{4\sqrt{3}}{35} & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{9}{70} & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & \frac{2\sqrt{6}}{35} & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{3\sqrt{15}}{70} & 0 & 0 & 0 \end{pmatrix}$
79	$Q_{3,0}^{(1,0;a)}$	$\begin{pmatrix} 0 & 0 & \frac{6}{35} & 0 & 0 & 0 & 0 & 0 & 0 & \frac{3\sqrt{3}}{35} & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & -\frac{6}{35} & 0 & 0 & 0 & 0 & 0 & 0 & \frac{3\sqrt{3}}{35} & 0 & 0 & 0 & 0 \end{pmatrix}$
80	$Q_{3,-1}^{(1,0;a)}$	$\begin{pmatrix} 0 & -\frac{2\sqrt{6}}{35} & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{3\sqrt{15}}{70} & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & \frac{4\sqrt{3}}{35} & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{9}{70} & 0 & 0 & 0 & 0 & 0 \end{pmatrix}$
81	$Q_{3,-2}^{(1,0;a)}$	$\begin{pmatrix} \frac{2\sqrt{3}}{35} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{9\sqrt{2}}{70} & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & -\frac{2\sqrt{15}}{35} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{3\sqrt{6}}{70} & 0 & 0 & 0 & 0 & 0 \end{pmatrix}$
82	$Q_{3,-3}^{(1,0;a)}$	$\begin{pmatrix} 0 & 0 & 0 & 0 & 0 & 0 & -\frac{3\sqrt{21}}{70} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ \frac{6\sqrt{2}}{35} & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{3\sqrt{3}}{70} & 0 & 0 & 0 & 0 & 0 & 0 & 0 \end{pmatrix}$
83	$G_{4,4}^{(1,-1;a)}$	$\begin{pmatrix} 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{3\sqrt{14}i}{35} & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \end{pmatrix}$
84	$G_{4,3}^{(1,-1;a)}$	$\begin{pmatrix} 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{3i}{10} & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{3\sqrt{7}i}{70} & 0 \end{pmatrix}$

continued ...

Table 4

No.	multipole	matrix
85	$\mathbb{G}_{4,2}^{(1,-1;a)}$	$\begin{array}{cccccccccccccccc} 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{3\sqrt{42}i}{70} & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{3\sqrt{14}i}{70} & 0 \end{array}$
86	$\mathbb{G}_{4,1}^{(1,-1;a)}$	$\begin{array}{cccccccccccccccc} 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{3\sqrt{35}i}{70} & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{3\sqrt{21}i}{70} & 0 \end{array}$
87	$\mathbb{G}_{4,0}^{(1,-1;a)}$	$\begin{array}{cccccccccccccccc} 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{3\sqrt{7}i}{35} & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{3\sqrt{7}i}{35} & 0 & 0 \end{array}$
88	$\mathbb{G}_{4,-1}^{(1,-1;a)}$	$\begin{array}{cccccccccccccccc} 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{3\sqrt{21}i}{70} & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{3\sqrt{35}i}{70} & 0 & 0 & 0 & 0 \end{array}$
89	$\mathbb{G}_{4,-2}^{(1,-1;a)}$	$\begin{array}{cccccccccccccccc} 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{3\sqrt{14}i}{70} & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{3\sqrt{42}i}{70} & 0 & 0 & 0 & 0 & 0 & 0 \end{array}$
90	$\mathbb{G}_{4,-3}^{(1,-1;a)}$	$\begin{array}{cccccccccccccccc} 0 & 0 & 0 & 0 & 0 & 0 & -\frac{3\sqrt{7}i}{70} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{3i}{10} & 0 & 0 & 0 & 0 & 0 & 0 & 0 \end{array}$
91	$\mathbb{G}_{4,-4}^{(1,-1;a)}$	$\begin{array}{cccccccccccccccc} 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & -\frac{3\sqrt{14}i}{35} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \end{array}$
92	$\mathbb{G}_{2,2}^{(1,1;a)}$	$\begin{array}{cccccccccccccccc} 0 & 0 & 0 & 0 & -\frac{\sqrt{21}i}{35} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{105}i}{35} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \end{array}$
93	$\mathbb{G}_{2,1}^{(1,1;a)}$	$\begin{array}{cccccccccccccccc} 0 & 0 & 0 & \frac{\sqrt{42}i}{35} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & \frac{2\sqrt{21}i}{35} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \end{array}$
94	$\mathbb{G}_{2,0}^{(1,1;a)}$	$\begin{array}{cccccccccccccccc} 0 & 0 & -\frac{3\sqrt{7}i}{35} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & -\frac{3\sqrt{7}i}{35} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \end{array}$
95	$\mathbb{G}_{2,-1}^{(1,1;a)}$	$\begin{array}{cccccccccccccccc} 0 & \frac{2\sqrt{21}i}{35} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & \frac{\sqrt{42}i}{35} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \end{array}$
96	$\mathbb{G}_{2,-2}^{(1,1;a)}$	$\begin{array}{cccccccccccccccc} -\frac{\sqrt{105}i}{35} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & -\frac{\sqrt{21}i}{35} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \end{array}$

continued ...

Table 4

No.	multipole	matrix
97	$\mathbb{T}_{3,3}^{(a)}$	$\begin{array}{cccccccccccccccc} 0 & 0 & 0 & 0 & 0 & \frac{3\sqrt{6}i}{35} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{3i}{35} & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{3\sqrt{7}i}{35} \end{array}$
98	$\mathbb{T}_{3,2}^{(a)}$	$\begin{array}{cccccccccccccccc} 0 & 0 & 0 & 0 & -\frac{3\sqrt{5}i}{35} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{3\sqrt{2}i}{35} & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & \frac{3i}{35} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{3\sqrt{6}i}{35} & 0 \end{array}$
99	$\mathbb{T}_{3,1}^{(a)}$	$\begin{array}{cccccccccccccccc} 0 & 0 & 0 & \frac{6i}{35} & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{3\sqrt{3}i}{35} & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & -\frac{3\sqrt{2}i}{35} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{3\sqrt{5}i}{35} & 0 & 0 \end{array}$
100	$\mathbb{T}_{3,0}^{(a)}$	$\begin{array}{cccccccccccccccc} 0 & 0 & -\frac{3\sqrt{3}i}{35} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{6i}{35} & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & \frac{3\sqrt{3}i}{35} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{6i}{35} & 0 & 0 & 0 \end{array}$
101	$\mathbb{T}_{3,-1}^{(a)}$	$\begin{array}{cccccccccccccccc} 0 & \frac{3\sqrt{2}i}{35} & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{3\sqrt{5}i}{35} & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & -\frac{6i}{35} & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{3\sqrt{3}i}{35} & 0 & 0 & 0 & 0 & 0 \end{array}$
102	$\mathbb{T}_{3,-2}^{(a)}$	$\begin{array}{cccccccccccccccc} -\frac{3i}{35} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{3\sqrt{6}i}{35} & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & \frac{3\sqrt{5}i}{35} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{3\sqrt{2}i}{35} & 0 & 0 & 0 & 0 & 0 \end{array}$
103	$\mathbb{T}_{3,-3}^{(a)}$	$\begin{array}{cccccccccccccccc} 0 & 0 & 0 & 0 & 0 & 0 & -\frac{3\sqrt{7}i}{35} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ -\frac{3\sqrt{6}i}{35} & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{3i}{35} & 0 & 0 & 0 & 0 & 0 & 0 & 0 \end{array}$
104	$\mathbb{T}_{3,3}^{(1,0;a)}$	$\begin{array}{cccccccccccccccc} 0 & 0 & 0 & 0 & 0 & \frac{2\sqrt{2}i}{7} & 0 & 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{3}i}{14} & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{21}i}{14} & 0 \end{array}$
105	$\mathbb{T}_{3,2}^{(1,0;a)}$	$\begin{array}{cccccccccccccccc} 0 & 0 & 0 & 0 & -\frac{2\sqrt{15}i}{21} & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{6}i}{14} & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & \frac{2\sqrt{3}i}{21} & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{3\sqrt{2}i}{14} & 0 & 0 \end{array}$
106	$\mathbb{T}_{3,1}^{(1,0;a)}$	$\begin{array}{cccccccccccccccc} 0 & 0 & 0 & \frac{4\sqrt{3}i}{21} & 0 & 0 & 0 & 0 & 0 & 0 & \frac{3i}{14} & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & -\frac{2\sqrt{6}i}{21} & 0 & 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{15}i}{14} & 0 & 0 & 0 \end{array}$
107	$\mathbb{T}_{3,0}^{(1,0;a)}$	$\begin{array}{cccccccccccccccc} 0 & 0 & -\frac{2i}{7} & 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{3}i}{7} & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & \frac{2i}{7} & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{3}i}{7} & 0 & 0 & 0 & 0 \end{array}$
108	$\mathbb{T}_{3,-1}^{(1,0;a)}$	$\begin{array}{cccccccccccccccc} 0 & \frac{2\sqrt{6}i}{21} & 0 & 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{15}i}{14} & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & -\frac{4\sqrt{3}i}{21} & 0 & 0 & 0 & 0 & 0 & 0 & \frac{3i}{14} & 0 & 0 & 0 & 0 & 0 \end{array}$

continued ...

Table 4

No.	multipole	matrix
109	$T_{3,-2}^{(1,0;a)}$	$\begin{array}{cccccccccccccccc} -\frac{2\sqrt{3}i}{21} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{3\sqrt{2}i}{14} & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & \frac{2\sqrt{15}i}{21} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{6}i}{14} & 0 & 0 & 0 & 0 & 0 \end{array}$
110	$T_{3,-3}^{(1,0;a)}$	$\begin{array}{cccccccccccccccc} 0 & 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{21}i}{14} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ -\frac{2\sqrt{2}i}{7} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{3}i}{14} & 0 & 0 & 0 & 0 & 0 & 0 \end{array}$
111	$M_{4,4}^{(1,-1;a)}$	$\begin{array}{cccccccccccccccc} 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{14}}{7} & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \end{array}$
112	$M_{4,3}^{(1,-1;a)}$	$\begin{array}{cccccccccccccccc} 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{1}{2} & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{7}}{14} \end{array}$
113	$M_{4,2}^{(1,-1;a)}$	$\begin{array}{cccccccccccccccc} 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{42}}{14} & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{14}}{14} & 0 & 0 \end{array}$
114	$M_{4,1}^{(1,-1;a)}$	$\begin{array}{cccccccccccccccc} 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{35}}{14} & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{21}}{14} & 0 & 0 \end{array}$
115	$M_{4,0}^{(1,-1;a)}$	$\begin{array}{cccccccccccccccc} 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{7}}{7} & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{7}}{7} & 0 & 0 & 0 & 0 \end{array}$
116	$M_{4,-1}^{(1,-1;a)}$	$\begin{array}{cccccccccccccccc} 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{21}}{14} & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{35}}{14} & 0 & 0 & 0 & 0 \end{array}$
117	$M_{4,-2}^{(1,-1;a)}$	$\begin{array}{cccccccccccccccc} 0 & 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{14}}{14} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{42}}{14} & 0 & 0 & 0 & 0 & 0 \end{array}$
118	$M_{4,-3}^{(1,-1;a)}$	$\begin{array}{cccccccccccccccc} 0 & 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{7}}{14} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{1}{2} & 0 & 0 & 0 & 0 & 0 & 0 & 0 \end{array}$
119	$M_{4,-4}^{(1,-1;a)}$	$\begin{array}{cccccccccccccccc} 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{14}}{7} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \end{array}$
120	$M_{2,2}^{(1,1;a)}$	$\begin{array}{cccccccccccccccc} 0 & 0 & 0 & 0 & -\frac{\sqrt{21}}{21} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{105}}{21} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \end{array}$

continued ...

Table 4

No.	multipole	matrix
121	$M_{2,1}^{(1,1;a)}$	$\begin{array}{cccccccccccccccc} 0 & 0 & 0 & \frac{\sqrt{42}}{21} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & \frac{2\sqrt{21}}{21} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \end{array}$
122	$M_{2,0}^{(1,1;a)}$	$\begin{array}{cccccccccccccccc} 0 & 0 & -\frac{\sqrt{7}}{7} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & -\frac{\sqrt{7}}{7} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \end{array}$
123	$M_{2,-1}^{(1,1;a)}$	$\begin{array}{cccccccccccccccc} 0 & \frac{2\sqrt{21}}{21} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & \frac{\sqrt{42}}{21} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \end{array}$
124	$M_{2,-2}^{(1,1;a)}$	$\begin{array}{cccccccccccccccc} -\frac{\sqrt{105}}{21} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & -\frac{\sqrt{21}}{21} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \end{array}$

$$\begin{aligned} \text{bra:} &= |\frac{1}{2}, \frac{1}{2}; p\rangle, |\frac{1}{2}, -\frac{1}{2}; p\rangle, |\frac{3}{2}, \frac{3}{2}; p\rangle, |\frac{3}{2}, \frac{1}{2}; p\rangle, |\frac{3}{2}, -\frac{1}{2}; p\rangle, |\frac{3}{2}, -\frac{3}{2}; p\rangle \\ \text{ket:} &= |\frac{1}{2}, \frac{1}{2}; p\rangle, |\frac{1}{2}, -\frac{1}{2}; p\rangle, |\frac{3}{2}, \frac{3}{2}; p\rangle, |\frac{3}{2}, \frac{1}{2}; p\rangle, |\frac{3}{2}, -\frac{1}{2}; p\rangle, |\frac{3}{2}, -\frac{3}{2}; p\rangle \end{aligned}$$

Table 5: (p,p) block.

No.	multipole	matrix
125	$Q_{0,0}^{(a)}$	$\begin{array}{cccccc} 1 & 0 & 0 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & 0 & 0 \\ 0 & 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 0 & 1 \end{array}$

continued ...

Table 5

No.	multipole	matrix
126	$Q_{2,2}^{(a)}$	$\begin{pmatrix} 0 & 0 & 0 & 0 & 0 & -\frac{2}{5} \\ 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & \frac{2}{5} & 0 & 0 & -\frac{\sqrt{2}}{5} & 0 \\ 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{2}}{5} \\ 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 \end{pmatrix}$
127	$Q_{2,1}^{(a)}$	$\begin{pmatrix} 0 & 0 & 0 & 0 & \frac{\sqrt{3}}{5} & 0 \\ 0 & 0 & 0 & 0 & 0 & -\frac{1}{5} \\ -\frac{1}{5} & 0 & 0 & \frac{\sqrt{2}}{5} & 0 & 0 \\ 0 & \frac{\sqrt{3}}{5} & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{2}}{5} \\ 0 & 0 & 0 & 0 & 0 & 0 \end{pmatrix}$
128	$Q_{2,0}^{(a)}$	$\begin{pmatrix} 0 & 0 & 0 & -\frac{\sqrt{2}}{5} & 0 & 0 \\ 0 & 0 & 0 & 0 & \frac{\sqrt{2}}{5} & 0 \\ 0 & 0 & -\frac{1}{5} & 0 & 0 & 0 \\ -\frac{\sqrt{2}}{5} & 0 & 0 & \frac{1}{5} & 0 & 0 \\ 0 & \frac{\sqrt{2}}{5} & 0 & 0 & \frac{1}{5} & 0 \\ 0 & 0 & 0 & 0 & 0 & -\frac{1}{5} \end{pmatrix}$
129	$Q_{2,-1}^{(a)}$	$\begin{pmatrix} 0 & 0 & \frac{1}{5} & 0 & 0 & 0 \\ 0 & 0 & 0 & -\frac{\sqrt{3}}{5} & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & -\frac{\sqrt{2}}{5} & 0 & 0 & 0 \\ -\frac{\sqrt{3}}{5} & 0 & 0 & 0 & 0 & 0 \\ 0 & \frac{1}{5} & 0 & 0 & \frac{\sqrt{2}}{5} & 0 \end{pmatrix}$

continued ...

Table 5

No.	multipole	matrix
130	$\mathbb{Q}_{2,-2}^{(a)}$	$\begin{pmatrix} 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & \frac{2}{5} & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & -\frac{\sqrt{2}}{5} & 0 & 0 & 0 \\ -\frac{2}{5} & 0 & 0 & -\frac{\sqrt{2}}{5} & 0 & 0 \end{pmatrix}$
131	$\mathbb{Q}_{2,2}^{(1,-1;a)}$	$\begin{pmatrix} 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{6}}{3} \\ 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & \frac{\sqrt{6}}{3} & 0 & 0 & \frac{2\sqrt{3}}{3} & 0 \\ 0 & 0 & 0 & 0 & 0 & \frac{2\sqrt{3}}{3} \\ 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 \end{pmatrix}$
132	$\mathbb{Q}_{2,1}^{(1,-1;a)}$	$\begin{pmatrix} 0 & 0 & 0 & 0 & \frac{\sqrt{2}}{2} & 0 \\ 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{6}}{6} \\ -\frac{\sqrt{6}}{6} & 0 & 0 & -\frac{2\sqrt{3}}{3} & 0 & 0 \\ 0 & \frac{\sqrt{2}}{2} & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & \frac{2\sqrt{3}}{3} \\ 0 & 0 & 0 & 0 & 0 & 0 \end{pmatrix}$
133	$\mathbb{Q}_{2,0}^{(1,-1;a)}$	$\begin{pmatrix} 0 & 0 & 0 & -\frac{\sqrt{3}}{3} & 0 & 0 \\ 0 & 0 & 0 & 0 & \frac{\sqrt{3}}{3} & 0 \\ 0 & 0 & \frac{\sqrt{6}}{3} & 0 & 0 & 0 \\ -\frac{\sqrt{3}}{3} & 0 & 0 & -\frac{\sqrt{6}}{3} & 0 & 0 \\ 0 & \frac{\sqrt{3}}{3} & 0 & 0 & -\frac{\sqrt{6}}{3} & 0 \\ 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{6}}{3} \end{pmatrix}$

continued ...

Table 5

No.	multipole	matrix					
134	$\mathbb{Q}_{2,-1}^{(1,-1;a)}$	0	0	$\frac{\sqrt{6}}{6}$	0	0	0
		0	0	0	$-\frac{\sqrt{2}}{2}$	0	0
		0	0	0	0	0	0
		0	0	$\frac{2\sqrt{3}}{3}$	0	0	0
		$-\frac{\sqrt{2}}{2}$	0	0	0	0	0
		0	$\frac{\sqrt{6}}{6}$	0	0	$-\frac{2\sqrt{3}}{3}$	0
135	$\mathbb{Q}_{2,-2}^{(1,-1;a)}$	0	0	0	0	0	0
		0	0	$\frac{\sqrt{6}}{3}$	0	0	0
		0	0	0	0	0	0
		0	0	0	0	0	0
		0	0	$\frac{2\sqrt{3}}{3}$	0	0	0
		$-\frac{\sqrt{6}}{3}$	0	0	$\frac{2\sqrt{3}}{3}$	0	0
136	$\mathbb{Q}_{0,0}^{(1,1;a)}$	$-\frac{2\sqrt{3}}{3}$	0	0	0	0	0
		0	$-\frac{2\sqrt{3}}{3}$	0	0	0	0
		0	0	$\frac{\sqrt{3}}{3}$	0	0	0
		0	0	0	$\frac{\sqrt{3}}{3}$	0	0
		0	0	0	0	$\frac{\sqrt{3}}{3}$	0
		0	0	0	0	0	$\frac{\sqrt{3}}{3}$
137	$\mathbb{G}_{1,1}^{(1,0;a)}$	0	0	0	0	$\frac{\sqrt{2}i}{2}$	0
		0	0	0	0	0	$\frac{\sqrt{6}i}{2}$
		$\frac{\sqrt{6}i}{2}$	0	0	0	0	0
		0	$\frac{\sqrt{2}i}{2}$	0	0	0	0
		0	0	0	0	0	0
		0	0	0	0	0	0

continued ...

Table 5

No.	multipole	matrix
138	$\mathbb{G}_{1,0}^{(1,0;a)}$	$\begin{pmatrix} 0 & 0 & 0 & -i & 0 & 0 \\ 0 & 0 & 0 & 0 & -i & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 \\ i & 0 & 0 & 0 & 0 & 0 \\ 0 & i & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 \end{pmatrix}$
139	$\mathbb{G}_{1,-1}^{(1,0;a)}$	$\begin{pmatrix} 0 & 0 & \frac{\sqrt{6}i}{2} & 0 & 0 & 0 \\ 0 & 0 & 0 & \frac{\sqrt{2}i}{2} & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 \\ \frac{\sqrt{2}i}{2} & 0 & 0 & 0 & 0 & 0 \\ 0 & \frac{\sqrt{6}i}{2} & 0 & 0 & 0 & 0 \end{pmatrix}$
140	$\mathbb{T}_{2,2}^{(1,0;a)}$	$\begin{pmatrix} 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{6}i}{5} \\ 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & \frac{\sqrt{6}i}{5} & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 \end{pmatrix}$
141	$\mathbb{T}_{2,1}^{(1,0;a)}$	$\begin{pmatrix} 0 & 0 & 0 & 0 & -\frac{3\sqrt{2}i}{10} & 0 \\ 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{6}i}{10} \\ -\frac{\sqrt{6}i}{10} & 0 & 0 & 0 & 0 & 0 \\ 0 & \frac{3\sqrt{2}i}{10} & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 \end{pmatrix}$

continued ...

Table 5

No.	multipole	matrix
142	$\mathbb{T}_{2,0}^{(1,0;a)}$	$\begin{pmatrix} 0 & 0 & 0 & \frac{\sqrt{3}i}{5} & 0 & 0 \\ 0 & 0 & 0 & 0 & -\frac{\sqrt{3}i}{5} & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 \\ -\frac{\sqrt{3}i}{5} & 0 & 0 & 0 & 0 & 0 \\ 0 & \frac{\sqrt{3}i}{5} & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 \end{pmatrix}$
143	$\mathbb{T}_{2,-1}^{(1,0;a)}$	$\begin{pmatrix} 0 & 0 & -\frac{\sqrt{6}i}{10} & 0 & 0 & 0 \\ 0 & 0 & 0 & \frac{3\sqrt{2}i}{10} & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 \\ -\frac{3\sqrt{2}i}{10} & 0 & 0 & 0 & 0 & 0 \\ 0 & \frac{\sqrt{6}i}{10} & 0 & 0 & 0 & 0 \end{pmatrix}$
144	$\mathbb{T}_{2,-2}^{(1,0;a)}$	$\begin{pmatrix} 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & -\frac{\sqrt{6}i}{5} & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 \\ -\frac{\sqrt{6}i}{5} & 0 & 0 & 0 & 0 & 0 \end{pmatrix}$
145	$\mathbb{M}_{1,1}^{(a)}$	$\begin{pmatrix} 0 & -\frac{2\sqrt{2}}{3} & 0 & 0 & -\frac{1}{3} & 0 \\ 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{3}}{3} \\ \frac{\sqrt{3}}{3} & 0 & 0 & -\frac{\sqrt{6}}{3} & 0 & 0 \\ 0 & \frac{1}{3} & 0 & 0 & -\frac{2\sqrt{2}}{3} & 0 \\ 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{6}}{3} \\ 0 & 0 & 0 & 0 & 0 & 0 \end{pmatrix}$

continued ...

Table 5

No.	multipole	matrix
146	$M_{1,0}^{(a)}$	$\begin{pmatrix} \frac{2}{3} & 0 & 0 & \frac{\sqrt{2}}{3} & 0 & 0 \\ 0 & -\frac{2}{3} & 0 & 0 & \frac{\sqrt{2}}{3} & 0 \\ 0 & 0 & 1 & 0 & 0 & 0 \\ \frac{\sqrt{2}}{3} & 0 & 0 & \frac{1}{3} & 0 & 0 \\ 0 & \frac{\sqrt{2}}{3} & 0 & 0 & -\frac{1}{3} & 0 \\ 0 & 0 & 0 & 0 & 0 & -1 \end{pmatrix}$
147	$M_{1,-1}^{(a)}$	$\begin{pmatrix} 0 & 0 & -\frac{\sqrt{3}}{3} & 0 & 0 & 0 \\ \frac{2\sqrt{2}}{3} & 0 & 0 & -\frac{1}{3} & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & \frac{\sqrt{6}}{3} & 0 & 0 & 0 \\ \frac{1}{3} & 0 & 0 & \frac{2\sqrt{2}}{3} & 0 & 0 \\ 0 & \frac{\sqrt{3}}{3} & 0 & 0 & \frac{\sqrt{6}}{3} & 0 \end{pmatrix}$
148	$M_{1,1}^{(1,-1;a)}$	$\begin{pmatrix} 0 & \frac{\sqrt{2}}{3} & 0 & 0 & \frac{2}{3} & 0 \\ 0 & 0 & 0 & 0 & 0 & \frac{2\sqrt{3}}{3} \\ -\frac{2\sqrt{3}}{3} & 0 & 0 & -\frac{\sqrt{6}}{3} & 0 & 0 \\ 0 & -\frac{2}{3} & 0 & 0 & -\frac{2\sqrt{2}}{3} & 0 \\ 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{6}}{3} \\ 0 & 0 & 0 & 0 & 0 & 0 \end{pmatrix}$
149	$M_{1,0}^{(1,-1;a)}$	$\begin{pmatrix} -\frac{1}{3} & 0 & 0 & -\frac{2\sqrt{2}}{3} & 0 & 0 \\ 0 & \frac{1}{3} & 0 & 0 & -\frac{2\sqrt{2}}{3} & 0 \\ 0 & 0 & 1 & 0 & 0 & 0 \\ -\frac{2\sqrt{2}}{3} & 0 & 0 & \frac{1}{3} & 0 & 0 \\ 0 & -\frac{2\sqrt{2}}{3} & 0 & 0 & -\frac{1}{3} & 0 \\ 0 & 0 & 0 & 0 & 0 & -1 \end{pmatrix}$

continued ...

Table 5

No.	multipole	matrix
150	$M_{1,-1}^{(1,-1;a)}$	$\begin{pmatrix} 0 & 0 & \frac{2\sqrt{3}}{3} & 0 & 0 & 0 \\ -\frac{\sqrt{2}}{3} & 0 & 0 & \frac{2}{3} & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & \frac{\sqrt{6}}{3} & 0 & 0 & 0 \\ -\frac{2}{3} & 0 & 0 & \frac{2\sqrt{2}}{3} & 0 & 0 \\ 0 & -\frac{2\sqrt{3}}{3} & 0 & 0 & \frac{\sqrt{6}}{3} & 0 \end{pmatrix}$
151	$M_{3,3}^{(1,-1;a)}$	$\begin{pmatrix} 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & \frac{2\sqrt{3}}{5} \\ 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 \end{pmatrix}$
152	$M_{3,2}^{(1,-1;a)}$	$\begin{pmatrix} 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & -\frac{\sqrt{6}}{5} & 0 \\ 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{6}}{5} \\ 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 \end{pmatrix}$
153	$M_{3,1}^{(1,-1;a)}$	$\begin{pmatrix} 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & \frac{2\sqrt{15}}{25} & 0 & 0 \\ 0 & 0 & 0 & 0 & -\frac{6\sqrt{5}}{25} & 0 \\ 0 & 0 & 0 & 0 & 0 & \frac{2\sqrt{15}}{25} \\ 0 & 0 & 0 & 0 & 0 & 0 \end{pmatrix}$

continued ...

Table 5

No.	multipole	matrix					
154	$M_{3,0}^{(1,-1;a)}$	0	0	0	0	0	0
		0	0	0	0	0	0
		0	0	$-\frac{\sqrt{15}}{25}$	0	0	0
		0	0	0	$\frac{3\sqrt{15}}{25}$	0	0
		0	0	0	0	$-\frac{3\sqrt{15}}{25}$	0
		0	0	0	0	0	$\frac{\sqrt{15}}{25}$
155	$M_{3,-1}^{(1,-1;a)}$	0	0	0	0	0	0
		0	0	0	0	0	0
		0	0	0	0	0	0
		0	0	$-\frac{2\sqrt{15}}{25}$	0	0	0
		0	0	0	$\frac{6\sqrt{5}}{25}$	0	0
		0	0	0	0	$-\frac{2\sqrt{15}}{25}$	0
156	$M_{3,-2}^{(1,-1;a)}$	0	0	0	0	0	0
		0	0	0	0	0	0
		0	0	0	0	0	0
		0	0	0	0	0	0
		0	0	$-\frac{\sqrt{6}}{5}$	0	0	0
		0	0	0	$\frac{\sqrt{6}}{5}$	0	0
157	$M_{3,-3}^{(1,-1;a)}$	0	0	0	0	0	0
		0	0	0	0	0	0
		0	0	0	0	0	0
		0	0	0	0	0	0
		0	0	0	0	0	0
		0	0	$-\frac{2\sqrt{3}}{5}$	0	0	0

continued ...

Table 5

No.	multipole	matrix					
158	$M_{1,1}^{(1,1;a)}$	0	$-\frac{4\sqrt{5}}{15}$	0	0	$\frac{\sqrt{10}}{30}$	0
		0	0	0	0	0	$\frac{\sqrt{30}}{30}$
		$-\frac{\sqrt{30}}{30}$	0	0	$\frac{2\sqrt{15}}{75}$	0	0
		0	$-\frac{\sqrt{10}}{30}$	0	0	$\frac{4\sqrt{5}}{75}$	0
		0	0	0	0	0	$\frac{2\sqrt{15}}{75}$
		0	0	0	0	0	0
159	$M_{1,0}^{(1,1;a)}$	$\frac{2\sqrt{10}}{15}$	0	0	$-\frac{\sqrt{5}}{15}$	0	0
		0	$-\frac{2\sqrt{10}}{15}$	0	0	$-\frac{\sqrt{5}}{15}$	0
		0	0	$-\frac{\sqrt{10}}{25}$	0	0	0
		$-\frac{\sqrt{5}}{15}$	0	0	$-\frac{\sqrt{10}}{75}$	0	0
		0	$-\frac{\sqrt{5}}{15}$	0	0	$\frac{\sqrt{10}}{75}$	0
		0	0	0	0	0	$\frac{\sqrt{10}}{25}$
160	$M_{1,-1}^{(1,1;a)}$	0	0	$\frac{\sqrt{30}}{30}$	0	0	0
		$\frac{4\sqrt{5}}{15}$	0	0	$\frac{\sqrt{10}}{30}$	0	0
		0	0	0	0	0	0
		0	0	$-\frac{2\sqrt{15}}{75}$	0	0	0
		$-\frac{\sqrt{10}}{30}$	0	0	$-\frac{4\sqrt{5}}{75}$	0	0
		0	$-\frac{\sqrt{30}}{30}$	0	0	$-\frac{2\sqrt{15}}{75}$	0

$$\text{bra:} = \left| \frac{1}{2}, \frac{1}{2}; p \right\rangle, \left| \frac{1}{2}, -\frac{1}{2}; p \right\rangle, \left| \frac{3}{2}, \frac{3}{2}; p \right\rangle, \left| \frac{3}{2}, \frac{1}{2}; p \right\rangle, \left| \frac{3}{2}, -\frac{1}{2}; p \right\rangle, \left| \frac{3}{2}, -\frac{3}{2}; p \right\rangle$$

$$\text{ket:} = \left| \frac{3}{2}, \frac{3}{2}; d \right\rangle, \left| \frac{3}{2}, \frac{1}{2}; d \right\rangle, \left| \frac{3}{2}, -\frac{1}{2}; d \right\rangle, \left| \frac{3}{2}, -\frac{3}{2}; d \right\rangle, \left| \frac{5}{2}, \frac{5}{2}; d \right\rangle, \left| \frac{5}{2}, \frac{3}{2}; d \right\rangle, \left| \frac{5}{2}, \frac{1}{2}; d \right\rangle, \left| \frac{5}{2}, -\frac{1}{2}; d \right\rangle, \left| \frac{5}{2}, -\frac{3}{2}; d \right\rangle, \left| \frac{5}{2}, -\frac{5}{2}; d \right\rangle$$

Table 6: (p,d) block.

No.	multipole	matrix
161	$Q_{1,1}^{(a)}$	$\begin{pmatrix} 0 & 0 & -\frac{1}{3} & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & -\frac{\sqrt{3}}{3} & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & \frac{\sqrt{6}}{15} & 0 & 0 & 0 & 0 & -\frac{1}{5} & 0 & 0 & 0 \\ 0 & 0 & \frac{2\sqrt{2}}{15} & 0 & 0 & 0 & 0 & -\frac{\sqrt{3}}{5} & 0 & 0 \\ 0 & 0 & 0 & \frac{\sqrt{6}}{15} & 0 & 0 & 0 & 0 & -\frac{\sqrt{6}}{5} & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{10}}{5} \end{pmatrix}$
162	$Q_{1,0}^{(a)}$	$\begin{pmatrix} 0 & \frac{\sqrt{2}}{3} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & \frac{\sqrt{2}}{3} & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ -\frac{1}{5} & 0 & 0 & 0 & 0 & 0 & \frac{2}{5} & 0 & 0 & 0 \\ 0 & -\frac{1}{15} & 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{6}}{5} & 0 & 0 \\ 0 & 0 & \frac{1}{15} & 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{6}}{5} & 0 \\ 0 & 0 & 0 & \frac{1}{5} & 0 & 0 & 0 & 0 & 0 & \frac{2}{5} \end{pmatrix}$
163	$Q_{1,-1}^{(a)}$	$\begin{pmatrix} -\frac{\sqrt{3}}{3} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & -\frac{1}{3} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & -\frac{\sqrt{10}}{5} & 0 & 0 & 0 & 0 & 0 \\ -\frac{\sqrt{6}}{15} & 0 & 0 & 0 & 0 & -\frac{\sqrt{6}}{5} & 0 & 0 & 0 & 0 \\ 0 & -\frac{2\sqrt{2}}{15} & 0 & 0 & 0 & 0 & -\frac{\sqrt{3}}{5} & 0 & 0 & 0 \\ 0 & 0 & -\frac{\sqrt{6}}{15} & 0 & 0 & 0 & 0 & 0 & -\frac{1}{5} & 0 \end{pmatrix}$
164	$Q_{3,3}^{(a)}$	$\begin{pmatrix} 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{6}}{7} \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & -\frac{6\sqrt{5}}{35} & 0 & 0 & 0 & 0 & \frac{3\sqrt{5}}{35} & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{3}}{7} \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \end{pmatrix}$

continued ...

Table 6

No.	multipole	matrix									
165	$Q_{3,2}^{(a)}$	0	0	0	0	0	0	0	0	$-\frac{\sqrt{5}}{7}$	0
		0	0	0	0	0	0	0	0	0	$\frac{1}{7}$
		0	0	$\frac{3\sqrt{10}}{35}$	0	0	0	0	$-\frac{2\sqrt{15}}{35}$	0	0
		0	0	0	$-\frac{3\sqrt{10}}{35}$	0	0	0	0	$-\frac{\sqrt{10}}{35}$	0
		0	0	0	0	0	0	0	0	0	$\frac{\sqrt{2}}{7}$
		0	0	0	0	0	0	0	0	0	0
166	$Q_{3,1}^{(a)}$	0	0	0	0	0	0	0	$\frac{2}{7}$	0	0
		0	0	0	0	0	0	0	0	$-\frac{\sqrt{2}}{7}$	0
		0	$-\frac{6}{35}$	0	0	0	0	$\frac{3\sqrt{6}}{35}$	0	0	0
		0	0	$\frac{6\sqrt{3}}{35}$	0	0	0	0	$-\frac{\sqrt{2}}{35}$	0	0
		0	0	0	$-\frac{6}{35}$	0	0	0	0	$-\frac{1}{5}$	0
		0	0	0	0	0	0	0	0	0	$\frac{\sqrt{15}}{35}$
167	$Q_{3,0}^{(a)}$	0	0	0	0	0	0	$-\frac{\sqrt{3}}{7}$	0	0	0
		0	0	0	0	0	0	0	$\frac{\sqrt{3}}{7}$	0	0
		$\frac{3}{35}$	0	0	0	0	$-\frac{6}{35}$	0	0	0	0
		0	$-\frac{9}{35}$	0	0	0	0	$\frac{2\sqrt{6}}{35}$	0	0	0
		0	0	$\frac{9}{35}$	0	0	0	0	$\frac{2\sqrt{6}}{35}$	0	0
		0	0	0	$-\frac{3}{35}$	0	0	0	0	$-\frac{6}{35}$	0
168	$Q_{3,-1}^{(a)}$	0	0	0	0	0	$\frac{\sqrt{2}}{7}$	0	0	0	0
		0	0	0	0	0	0	$-\frac{2}{7}$	0	0	0
		0	0	0	0	$\frac{\sqrt{15}}{35}$	0	0	0	0	0
		$\frac{6}{35}$	0	0	0	0	$-\frac{1}{5}$	0	0	0	0
		0	$-\frac{6\sqrt{3}}{35}$	0	0	0	0	$-\frac{\sqrt{2}}{35}$	0	0	0
		0	0	$\frac{6}{35}$	0	0	0	0	$\frac{3\sqrt{6}}{35}$	0	0

continued ...

Table 6

No.	multipole	matrix
169	$Q_{3,-2}^{(a)}$	$\begin{array}{cccccccccccc} 0 & 0 & 0 & 0 & -\frac{1}{7} & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{5}}{7} & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & \frac{\sqrt{2}}{7} & 0 & 0 & 0 & 0 & 0 & 0 \\ \frac{3\sqrt{10}}{35} & 0 & 0 & 0 & 0 & -\frac{\sqrt{10}}{35} & 0 & 0 & 0 & 0 & 0 \\ 0 & -\frac{3\sqrt{10}}{35} & 0 & 0 & 0 & 0 & -\frac{2\sqrt{15}}{35} & 0 & 0 & 0 & 0 \end{array}$
170	$Q_{3,-3}^{(a)}$	$\begin{array}{cccccccccccc} 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & -\frac{\sqrt{6}}{7} & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & \frac{\sqrt{3}}{7} & 0 & 0 & 0 & 0 & 0 & 0 \\ \frac{6\sqrt{5}}{35} & 0 & 0 & 0 & 0 & \frac{3\sqrt{5}}{35} & 0 & 0 & 0 & 0 & 0 \end{array}$
171	$Q_{3,3}^{(1,-1;a)}$	$\begin{array}{cccccccccccc} 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{4\sqrt{10}}{15} & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & -\frac{4\sqrt{3}}{15} & 0 & 0 & 0 & 0 & -\frac{8\sqrt{3}}{15} & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{8\sqrt{5}}{15} & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \end{array}$
172	$Q_{3,2}^{(1,-1;a)}$	$\begin{array}{cccccccccccc} 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{4\sqrt{3}}{9} & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{4\sqrt{15}}{45} & 0 \\ 0 & 0 & \frac{2\sqrt{6}}{15} & 0 & 0 & 0 & 0 & \frac{16}{15} & 0 & 0 & 0 \\ 0 & 0 & 0 & -\frac{2\sqrt{6}}{15} & 0 & 0 & 0 & 0 & \frac{8\sqrt{6}}{45} & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{8\sqrt{30}}{45} & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \end{array}$

continued ...

Table 6

No.	multipole	matrix									
173	$Q_{3,1}^{(1,-1;a)}$	0	0	0	0	0	0	0	$\frac{8\sqrt{15}}{45}$	0	0
		0	0	0	0	0	0	0	0	$-\frac{4\sqrt{30}}{45}$	0
		0	$-\frac{4\sqrt{15}}{75}$	0	0	0	0	$-\frac{8\sqrt{10}}{25}$	0	0	0
		0	0	$\frac{4\sqrt{5}}{25}$	0	0	0	0	$\frac{8\sqrt{30}}{225}$	0	0
		0	0	0	$-\frac{4\sqrt{15}}{75}$	0	0	0	0	$\frac{56\sqrt{15}}{225}$	0
		0	0	0	0	0	0	0	0	0	$-\frac{8}{15}$
174	$Q_{3,0}^{(1,-1;a)}$	0	0	0	0	0	0	$-\frac{4\sqrt{5}}{15}$	0	0	0
		0	0	0	0	0	0	0	$\frac{4\sqrt{5}}{15}$	0	0
		$\frac{2\sqrt{15}}{75}$	0	0	0	0	$\frac{16\sqrt{15}}{75}$	0	0	0	0
		0	$-\frac{2\sqrt{15}}{25}$	0	0	0	0	$-\frac{16\sqrt{10}}{75}$	0	0	0
		0	0	$\frac{2\sqrt{15}}{25}$	0	0	0	0	$-\frac{16\sqrt{10}}{75}$	0	0
		0	0	0	$-\frac{2\sqrt{15}}{75}$	0	0	0	0	$\frac{16\sqrt{15}}{75}$	0
175	$Q_{3,-1}^{(1,-1;a)}$	0	0	0	0	0	$\frac{4\sqrt{30}}{45}$	0	0	0	0
		0	0	0	0	0	0	$-\frac{8\sqrt{15}}{45}$	0	0	0
		0	0	0	0	$-\frac{8}{15}$	0	0	0	0	0
		$\frac{4\sqrt{15}}{75}$	0	0	0	0	$\frac{56\sqrt{15}}{225}$	0	0	0	0
		0	$-\frac{4\sqrt{5}}{25}$	0	0	0	0	$\frac{8\sqrt{30}}{225}$	0	0	0
		0	0	$\frac{4\sqrt{15}}{75}$	0	0	0	0	$-\frac{8\sqrt{10}}{25}$	0	0
176	$Q_{3,-2}^{(1,-1;a)}$	0	0	0	0	$-\frac{4\sqrt{15}}{45}$	0	0	0	0	0
		0	0	0	0	0	$\frac{4\sqrt{3}}{9}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{8\sqrt{30}}{45}$	0	0	0	0	0
		$\frac{2\sqrt{6}}{15}$	0	0	0	0	$\frac{8\sqrt{6}}{45}$	0	0	0	0
		0	$-\frac{2\sqrt{6}}{15}$	0	0	0	0	$\frac{16}{15}$	0	0	0

continued ...

Table 6

No.	multipole	matrix
177	$\mathbb{Q}_{3,-3}^{(1,-1;a)}$	$\begin{pmatrix} 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & -\frac{4\sqrt{10}}{15} & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & -\frac{8\sqrt{5}}{15} & 0 & 0 & 0 & 0 & 0 \\ \frac{4\sqrt{3}}{15} & 0 & 0 & 0 & 0 & -\frac{8\sqrt{3}}{15} & 0 & 0 & 0 & 0 \end{pmatrix}$
178	$\mathbb{Q}_{1,1}^{(1,0;a)}$	$\begin{pmatrix} 0 & 0 & \frac{\sqrt{2}}{9} & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & \frac{\sqrt{6}}{9} & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & -\frac{8\sqrt{3}}{45} & 0 & 0 & 0 & 0 & -\frac{\sqrt{2}}{15} & 0 & 0 & 0 \\ 0 & 0 & -\frac{16}{45} & 0 & 0 & 0 & 0 & -\frac{\sqrt{6}}{15} & 0 & 0 \\ 0 & 0 & 0 & -\frac{8\sqrt{3}}{45} & 0 & 0 & 0 & 0 & -\frac{2\sqrt{3}}{15} & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{2\sqrt{5}}{15} \end{pmatrix}$
179	$\mathbb{Q}_{1,0}^{(1,0;a)}$	$\begin{pmatrix} 0 & -\frac{2}{9} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & -\frac{2}{9} & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ \frac{4\sqrt{2}}{15} & 0 & 0 & 0 & 0 & \frac{2\sqrt{2}}{15} & 0 & 0 & 0 & 0 \\ 0 & \frac{4\sqrt{2}}{45} & 0 & 0 & 0 & 0 & \frac{2\sqrt{3}}{15} & 0 & 0 & 0 \\ 0 & 0 & -\frac{4\sqrt{2}}{45} & 0 & 0 & 0 & 0 & \frac{2\sqrt{3}}{15} & 0 & 0 \\ 0 & 0 & 0 & -\frac{4\sqrt{2}}{15} & 0 & 0 & 0 & 0 & \frac{2\sqrt{2}}{15} & 0 \end{pmatrix}$
180	$\mathbb{Q}_{1,-1}^{(1,0;a)}$	$\begin{pmatrix} \frac{\sqrt{6}}{9} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & \frac{\sqrt{2}}{9} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & -\frac{2\sqrt{5}}{15} & 0 & 0 & 0 & 0 & 0 \\ \frac{8\sqrt{3}}{45} & 0 & 0 & 0 & 0 & -\frac{2\sqrt{3}}{15} & 0 & 0 & 0 & 0 \\ 0 & \frac{16}{45} & 0 & 0 & 0 & 0 & -\frac{\sqrt{6}}{15} & 0 & 0 & 0 \\ 0 & 0 & \frac{8\sqrt{3}}{45} & 0 & 0 & 0 & 0 & -\frac{\sqrt{2}}{15} & 0 & 0 \end{pmatrix}$

continued ...

Table 6

No.	multipole	matrix
181	$Q_{3,3}^{(1,0;a)}$	$\begin{pmatrix} 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{2\sqrt{2}}{35} \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & \frac{4\sqrt{15}}{175} & 0 & 0 & 0 & 0 & \frac{\sqrt{15}}{350} & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{1}{70} \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \end{pmatrix}$
182	$Q_{3,2}^{(1,0;a)}$	$\begin{pmatrix} 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{2\sqrt{15}}{105} & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{2\sqrt{3}}{105} \\ 0 & 0 & -\frac{2\sqrt{30}}{175} & 0 & 0 & 0 & 0 & -\frac{\sqrt{5}}{175} & 0 & 0 \\ 0 & 0 & 0 & \frac{2\sqrt{30}}{175} & 0 & 0 & 0 & 0 & -\frac{\sqrt{30}}{1050} & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{6}}{210} \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \end{pmatrix}$
183	$Q_{3,1}^{(1,0;a)}$	$\begin{pmatrix} 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{4\sqrt{3}}{105} & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{2\sqrt{6}}{105} & 0 \\ 0 & \frac{4\sqrt{3}}{175} & 0 & 0 & 0 & 0 & \frac{3\sqrt{2}}{350} & 0 & 0 & 0 \\ 0 & 0 & -\frac{12}{175} & 0 & 0 & 0 & 0 & -\frac{\sqrt{6}}{1050} & 0 & 0 \\ 0 & 0 & 0 & \frac{4\sqrt{3}}{175} & 0 & 0 & 0 & 0 & -\frac{\sqrt{3}}{150} & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{5}}{350} \end{pmatrix}$
184	$Q_{3,0}^{(1,0;a)}$	$\begin{pmatrix} 0 & 0 & 0 & 0 & 0 & 0 & -\frac{2}{35} & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{2}{35} & 0 & 0 \\ -\frac{2\sqrt{3}}{175} & 0 & 0 & 0 & 0 & -\frac{\sqrt{3}}{175} & 0 & 0 & 0 & 0 \\ 0 & \frac{6\sqrt{3}}{175} & 0 & 0 & 0 & 0 & \frac{\sqrt{2}}{175} & 0 & 0 & 0 \\ 0 & 0 & -\frac{6\sqrt{3}}{175} & 0 & 0 & 0 & 0 & \frac{\sqrt{2}}{175} & 0 & 0 \\ 0 & 0 & 0 & \frac{2\sqrt{3}}{175} & 0 & 0 & 0 & 0 & -\frac{\sqrt{3}}{175} & 0 \end{pmatrix}$

continued ...

Table 6

No.	multipole	matrix									
185	$Q_{3,-1}^{(1,0;a)}$	0	0	0	0	0	$\frac{2\sqrt{6}}{105}$	0	0	0	0
		0	0	0	0	0	0	$-\frac{4\sqrt{3}}{105}$	0	0	0
		0	0	0	0	$\frac{\sqrt{5}}{350}$	0	0	0	0	0
		$-\frac{4\sqrt{3}}{175}$	0	0	0	0	$-\frac{\sqrt{3}}{150}$	0	0	0	0
		0	$\frac{12}{175}$	0	0	0	0	$-\frac{\sqrt{6}}{1050}$	0	0	0
		0	0	$-\frac{4\sqrt{3}}{175}$	0	0	0	0	$\frac{3\sqrt{2}}{350}$	0	0
186	$Q_{3,-2}^{(1,0;a)}$	0	0	0	0	$-\frac{2\sqrt{3}}{105}$	0	0	0	0	
		0	0	0	0	0	$\frac{2\sqrt{15}}{105}$	0	0	0	
		0	0	0	0	0	0	0	0	0	
		0	0	0	0	$\frac{\sqrt{6}}{210}$	0	0	0	0	
		$-\frac{2\sqrt{30}}{175}$	0	0	0	0	$-\frac{\sqrt{30}}{1050}$	0	0	0	
		0	$\frac{2\sqrt{30}}{175}$	0	0	0	0	$-\frac{\sqrt{5}}{175}$	0	0	
187	$Q_{3,-3}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	
		0	0	0	0	$-\frac{2\sqrt{2}}{35}$	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		0	0	0	0	$\frac{1}{70}$	0	0	0	0	
		$-\frac{4\sqrt{15}}{175}$	0	0	0	0	$\frac{\sqrt{15}}{350}$	0	0	0	
188	$Q_{1,1}^{(1,1;a)}$	0	0	$\frac{\sqrt{10}}{5}$	0	0	0	0	0	0	
		0	0	0	$\frac{\sqrt{30}}{5}$	0	0	0	0	0	
		0	$\frac{4\sqrt{15}}{25}$	0	0	0	$-\frac{\sqrt{10}}{25}$	0	0	0	
		0	0	$\frac{8\sqrt{5}}{25}$	0	0	0	$-\frac{\sqrt{30}}{25}$	0	0	
		0	0	0	$\frac{4\sqrt{15}}{25}$	0	0	0	$-\frac{2\sqrt{15}}{25}$	0	
		0	0	0	0	0	0	0	0	$-\frac{2}{5\sqrt{15}}$	

continued ...

Table 6

No.	multipole	matrix									
189	$\mathbb{Q}_{1,0}^{(1,1;a)}$	0	$-\frac{2\sqrt{5}}{5}$	0	0	0	0	0	0	0	0
		0	0	$-\frac{2\sqrt{5}}{5}$	0	0	0	0	0	0	0
		$-\frac{6\sqrt{10}}{25}$	0	0	0	0	$\frac{2\sqrt{10}}{25}$	0	0	0	0
		0	$-\frac{2\sqrt{10}}{25}$	0	0	0	0	$\frac{2\sqrt{15}}{25}$	0	0	0
		0	0	$\frac{2\sqrt{10}}{25}$	0	0	0	0	$\frac{2\sqrt{15}}{25}$	0	0
		0	0	0	$\frac{6\sqrt{10}}{25}$	0	0	0	0	$\frac{2\sqrt{10}}{25}$	0
190	$\mathbb{Q}_{1,-1}^{(1,1;a)}$	$\frac{\sqrt{30}}{5}$	0	0	0	0	0	0	0	0	0
		0	$\frac{\sqrt{10}}{5}$	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{2}{5}$	0	0	0	0	0
		$-\frac{4\sqrt{15}}{25}$	0	0	0	0	$-\frac{2\sqrt{15}}{25}$	0	0	0	0
		0	$-\frac{8\sqrt{5}}{25}$	0	0	0	0	$-\frac{\sqrt{30}}{25}$	0	0	0
		0	0	$-\frac{4\sqrt{15}}{25}$	0	0	0	0	$-\frac{\sqrt{10}}{25}$	0	0
191	$\mathbb{G}_{2,2}^{(a)}$	0	0	0	$\frac{4i}{15}$	0	0	0	0	$\frac{4i}{45}$	0
		0	0	0	0	0	0	0	0	0	$\frac{4\sqrt{5}i}{45}$
		0	0	$-\frac{2\sqrt{2}i}{15}$	0	0	0	0	$\frac{4\sqrt{3}i}{45}$	0	0
		0	0	0	$-\frac{2\sqrt{2}i}{15}$	0	0	0	0	$\frac{8\sqrt{2}i}{45}$	0
		0	0	0	0	0	0	0	0	0	$\frac{4\sqrt{10}i}{45}$
		0	0	0	0	0	0	0	0	0	0
192	$\mathbb{G}_{2,1}^{(a)}$	0	0	$-\frac{2\sqrt{3}i}{15}$	0	0	0	0	$-\frac{4\sqrt{2}i}{45}$	0	0
		0	0	0	$\frac{2i}{15}$	0	0	0	0	$-\frac{8i}{45}$	0
		0	$\frac{2\sqrt{2}i}{15}$	0	0	0	0	$-\frac{2\sqrt{3}i}{15}$	0	0	0
		0	0	0	0	0	0	0	$-\frac{2i}{9}$	0	0
		0	0	0	$-\frac{2\sqrt{2}i}{15}$	0	0	0	0	$-\frac{2\sqrt{2}i}{45}$	0
		0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{30}i}{45}$

continued ...

Table 6

No.	multipole	matrix									
193	$\mathbb{G}_{2,0}^{(a)}$	0	$\frac{2\sqrt{2}i}{15}$	0	0	0	0	$\frac{4\sqrt{3}i}{45}$	0	0	0
		0	0	$-\frac{2\sqrt{2}i}{15}$	0	0	0	0	$\frac{4\sqrt{3}i}{45}$	0	0
		$-\frac{2i}{15}$	0	0	0	0	$\frac{4i}{15}$	0	0	0	0
		0	$\frac{2i}{15}$	0	0	0	0	$\frac{2\sqrt{6}i}{45}$	0	0	0
		0	0	$\frac{2i}{15}$	0	0	0	0	$-\frac{2\sqrt{6}i}{45}$	0	0
		0	0	0	$-\frac{2i}{15}$	0	0	0	0	$-\frac{4i}{15}$	0
194	$\mathbb{G}_{2,-1}^{(a)}$	$-\frac{2i}{15}$	0	0	0	0	$-\frac{8i}{45}$	0	0	0	0
		0	$\frac{2\sqrt{3}i}{15}$	0	0	0	0	$-\frac{4\sqrt{2}i}{45}$	0	0	0
		0	0	0	0	$-\frac{2\sqrt{30}i}{45}$	0	0	0	0	0
		$-\frac{2\sqrt{2}i}{15}$	0	0	0	0	$\frac{2\sqrt{2}i}{45}$	0	0	0	0
		0	0	0	0	0	0	$\frac{2i}{9}$	0	0	0
		0	0	$\frac{2\sqrt{2}i}{15}$	0	0	0	0	$\frac{2\sqrt{3}i}{15}$	0	0
195	$\mathbb{G}_{2,-2}^{(a)}$	0	0	0	0	$\frac{4\sqrt{5}i}{45}$	0	0	0	0	0
		$-\frac{4i}{15}$	0	0	0	0	$\frac{4i}{45}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{4\sqrt{10}i}{45}$	0	0	0	0	0
		$-\frac{2\sqrt{2}i}{15}$	0	0	0	0	$-\frac{8\sqrt{2}i}{45}$	0	0	0	0
		0	$-\frac{2\sqrt{2}i}{15}$	0	0	0	0	$-\frac{4\sqrt{3}i}{45}$	0	0	0
196	$\mathbb{G}_{2,2}^{(1,-1;a)}$	0	0	0	$-\frac{2\sqrt{6}i}{45}$	0	0	0	$-\frac{4\sqrt{6}i}{45}$	0	
		0	0	0	0	0	0	0	0	$-\frac{4\sqrt{30}i}{45}$	
		0	0	$\frac{4\sqrt{3}i}{45}$	0	0	0	$\frac{2\sqrt{2}i}{15}$	0	0	
		0	0	0	$\frac{4\sqrt{3}i}{45}$	0	0	0	$\frac{8\sqrt{3}i}{45}$	0	
		0	0	0	0	0	0	0	0	$\frac{4\sqrt{15}i}{45}$	
		0	0	0	0	0	0	0	0	0	

continued ...

Table 6

No.	multipole	matrix									
197	$\mathbb{G}_{2,1}^{(1,-1;a)}$	0	0	$\frac{\sqrt{2}i}{15}$	0	0	0	0	$\frac{8\sqrt{3}i}{45}$	0	0
		0	0	0	$-\frac{\sqrt{6}i}{45}$	0	0	0	0	$\frac{8\sqrt{6}i}{45}$	0
		0	$-\frac{4\sqrt{3}i}{45}$	0	0	0	0	$-\frac{\sqrt{2}i}{5}$	0	0	0
		0	0	0	0	0	0	0	$-\frac{\sqrt{6}i}{9}$	0	0
		0	0	0	$\frac{4\sqrt{3}i}{45}$	0	0	0	0	$-\frac{2\sqrt{3}i}{45}$	0
		0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{5}i}{15}$
198	$\mathbb{G}_{2,0}^{(1,-1;a)}$	0	$-\frac{2\sqrt{3}i}{45}$	0	0	0	0	$-\frac{4\sqrt{2}i}{15}$	0	0	0
		0	0	$\frac{2\sqrt{3}i}{45}$	0	0	0	0	$-\frac{4\sqrt{2}i}{15}$	0	0
		$\frac{2\sqrt{6}i}{45}$	0	0	0	0	$\frac{2\sqrt{6}i}{15}$	0	0	0	0
		0	$-\frac{2\sqrt{6}i}{45}$	0	0	0	0	$\frac{2i}{15}$	0	0	0
		0	0	$-\frac{2\sqrt{6}i}{45}$	0	0	0	0	$-\frac{2i}{15}$	0	0
		0	0	0	$\frac{2\sqrt{6}i}{45}$	0	0	0	0	$-\frac{2\sqrt{6}i}{15}$	0
199	$\mathbb{G}_{2,-1}^{(1,-1;a)}$	$\frac{\sqrt{6}i}{45}$	0	0	0	0	0	$\frac{8\sqrt{6}i}{45}$	0	0	0
		0	$-\frac{\sqrt{2}i}{15}$	0	0	0	0	0	$\frac{8\sqrt{3}i}{45}$	0	0
		0	0	0	0	$-\frac{2\sqrt{5}i}{15}$	0	0	0	0	0
		$\frac{4\sqrt{3}i}{45}$	0	0	0	0	0	$\frac{2\sqrt{3}i}{45}$	0	0	0
		0	0	0	0	0	0	0	$\frac{\sqrt{6}i}{9}$	0	0
		0	0	$-\frac{4\sqrt{3}i}{45}$	0	0	0	0	0	$\frac{\sqrt{2}i}{5}$	0
200	$\mathbb{G}_{2,-2}^{(1,-1;a)}$	0	0	0	0	$-\frac{4\sqrt{30}i}{45}$	0	0	0	0	0
		$\frac{2\sqrt{6}i}{45}$	0	0	0	0	$-\frac{4\sqrt{6}i}{45}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{4\sqrt{15}i}{45}$	0	0	0	0	0
		$\frac{4\sqrt{3}i}{45}$	0	0	0	0	$-\frac{8\sqrt{3}i}{45}$	0	0	0	0
		0	$\frac{4\sqrt{3}i}{45}$	0	0	0	0	0	$-\frac{2\sqrt{2}i}{15}$	0	0

continued ...

Table 6

No.	multipole	matrix
201	$\mathbb{G}_{4,4}^{(1,-1;a)}$	$\begin{pmatrix} 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{3\sqrt{2}i}{35} \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \end{pmatrix}$
202	$\mathbb{G}_{4,3}^{(1,-1;a)}$	$\begin{pmatrix} 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{3\sqrt{5}i}{70} & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{3\sqrt{3}i}{70} & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \end{pmatrix}$
203	$\mathbb{G}_{4,2}^{(1,-1;a)}$	$\begin{pmatrix} 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{3\sqrt{35}i}{245} & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{3\sqrt{210}i}{490} & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{3\sqrt{42}i}{490} & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \end{pmatrix}$
204	$\mathbb{G}_{4,1}^{(1,-1;a)}$	$\begin{pmatrix} 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & \frac{3\sqrt{70}i}{490} & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{3\sqrt{210}i}{490} & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{3\sqrt{105}i}{490} & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{3\sqrt{7}i}{490} & 0 \end{pmatrix}$

continued ...

Table 6

No.	multipole	matrix
205	$\mathbb{G}_{4,0}^{(1,-1;a)}$	$\begin{pmatrix} 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & -\frac{3\sqrt{7}i}{245} & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & \frac{3\sqrt{42}i}{245} & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{3\sqrt{42}i}{245} & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{3\sqrt{7}i}{245} & 0 \end{pmatrix}$
206	$\mathbb{G}_{4,-1}^{(1,-1;a)}$	$\begin{pmatrix} 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & \frac{3\sqrt{7}i}{490} & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & -\frac{3\sqrt{105}i}{490} & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & \frac{3\sqrt{210}i}{490} & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{3\sqrt{70}i}{490} & 0 & 0 \end{pmatrix}$
207	$\mathbb{G}_{4,-2}^{(1,-1;a)}$	$\begin{pmatrix} 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & \frac{3\sqrt{42}i}{490} & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & -\frac{3\sqrt{210}i}{490} & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & \frac{3\sqrt{35}i}{245} & 0 & 0 & 0 \end{pmatrix}$
208	$\mathbb{G}_{4,-3}^{(1,-1;a)}$	$\begin{pmatrix} 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & \frac{3\sqrt{3}i}{70} & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & -\frac{3\sqrt{5}i}{70} & 0 & 0 & 0 & 0 \end{pmatrix}$

continued ...

Table 6

No.	multipole	matrix
209	$\mathbb{G}_{4,-4}^{(1,-1;a)}$	$\begin{pmatrix} 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & \frac{3\sqrt{2}i}{35} & 0 & 0 & 0 & 0 & 0 \end{pmatrix}$
210	$\mathbb{G}_{2,2}^{(1,0;a)}$	$\begin{pmatrix} 0 & 0 & 0 & \frac{2\sqrt{6}i}{15} & 0 & 0 & 0 & 0 & -\frac{8\sqrt{6}i}{45} & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{8\sqrt{30}i}{45} \\ 0 & 0 & -\frac{8\sqrt{3}i}{15} & 0 & 0 & 0 & 0 & -\frac{2\sqrt{2}i}{15} & 0 & 0 \\ 0 & 0 & 0 & -\frac{8\sqrt{3}i}{15} & 0 & 0 & 0 & 0 & -\frac{8\sqrt{3}i}{45} & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{4\sqrt{15}i}{45} \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \end{pmatrix}$
211	$\mathbb{G}_{2,1}^{(1,0;a)}$	$\begin{pmatrix} 0 & 0 & -\frac{\sqrt{2}i}{5} & 0 & 0 & 0 & 0 & \frac{16\sqrt{3}i}{45} & 0 & 0 \\ 0 & 0 & 0 & \frac{\sqrt{6}i}{15} & 0 & 0 & 0 & 0 & \frac{16\sqrt{6}i}{45} & 0 \\ 0 & \frac{8\sqrt{3}i}{15} & 0 & 0 & 0 & 0 & \frac{\sqrt{2}i}{5} & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{6}i}{9} & 0 & 0 \\ 0 & 0 & 0 & -\frac{8\sqrt{3}i}{15} & 0 & 0 & 0 & 0 & \frac{2\sqrt{3}i}{45} & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{2\sqrt{5}i}{15} \end{pmatrix}$
212	$\mathbb{G}_{2,0}^{(1,0;a)}$	$\begin{pmatrix} 0 & \frac{2\sqrt{3}i}{15} & 0 & 0 & 0 & 0 & -\frac{8\sqrt{2}i}{15} & 0 & 0 & 0 \\ 0 & 0 & -\frac{2\sqrt{3}i}{15} & 0 & 0 & 0 & 0 & -\frac{8\sqrt{2}i}{15} & 0 & 0 \\ -\frac{4\sqrt{6}i}{15} & 0 & 0 & 0 & 0 & -\frac{2\sqrt{6}i}{15} & 0 & 0 & 0 & 0 \\ 0 & \frac{4\sqrt{6}i}{15} & 0 & 0 & 0 & 0 & -\frac{2i}{15} & 0 & 0 & 0 \\ 0 & 0 & \frac{4\sqrt{6}i}{15} & 0 & 0 & 0 & 0 & \frac{2i}{15} & 0 & 0 \\ 0 & 0 & 0 & -\frac{4\sqrt{6}i}{15} & 0 & 0 & 0 & 0 & \frac{2\sqrt{6}i}{15} & 0 \end{pmatrix}$

continued ...

Table 6

No.	multipole	matrix
213	$\mathbb{G}_{2,-1}^{(1,0;a)}$	$\begin{pmatrix} -\frac{\sqrt{6}i}{15} & 0 & 0 & 0 & 0 & \frac{16\sqrt{6}i}{45} & 0 & 0 & 0 & 0 \\ 0 & \frac{\sqrt{2}i}{5} & 0 & 0 & 0 & 0 & \frac{16\sqrt{3}i}{45} & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & \frac{2\sqrt{5}i}{15} & 0 & 0 & 0 & 0 & 0 \\ -\frac{8\sqrt{3}i}{15} & 0 & 0 & 0 & 0 & -\frac{2\sqrt{3}i}{45} & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{6}i}{9} & 0 & 0 & 0 \\ 0 & 0 & \frac{8\sqrt{3}i}{15} & 0 & 0 & 0 & 0 & -\frac{\sqrt{2}i}{5} & 0 & 0 \end{pmatrix}$
214	$\mathbb{G}_{2,-2}^{(1,0;a)}$	$\begin{pmatrix} 0 & 0 & 0 & 0 & -\frac{8\sqrt{30}i}{45} & 0 & 0 & 0 & 0 & 0 \\ -\frac{2\sqrt{6}i}{15} & 0 & 0 & 0 & 0 & -\frac{8\sqrt{6}i}{45} & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & \frac{4\sqrt{15}i}{45} & 0 & 0 & 0 & 0 & 0 \\ -\frac{8\sqrt{3}i}{15} & 0 & 0 & 0 & 0 & \frac{8\sqrt{3}i}{45} & 0 & 0 & 0 & 0 \\ 0 & -\frac{8\sqrt{3}i}{15} & 0 & 0 & 0 & 0 & \frac{2\sqrt{2}i}{15} & 0 & 0 & 0 \end{pmatrix}$
215	$\mathbb{G}_{0,0}^{(1,1;a)}$	$\begin{pmatrix} 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ -\frac{2\sqrt{3}i}{9} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & -\frac{2\sqrt{3}i}{9} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & -\frac{2\sqrt{3}i}{9} & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & -\frac{2\sqrt{3}i}{9} & 0 & 0 & 0 & 0 & 0 & 0 \end{pmatrix}$
216	$\mathbb{G}_{2,2}^{(1,1;a)}$	$\begin{pmatrix} 0 & 0 & 0 & \frac{4\sqrt{21}i}{175} & 0 & 0 & 0 & 0 & -\frac{\sqrt{21}i}{525} & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{105}i}{525} \\ 0 & 0 & \frac{\sqrt{42}i}{175} & 0 & 0 & 0 & 0 & -\frac{4\sqrt{7}i}{1225} & 0 & 0 \\ 0 & 0 & 0 & \frac{\sqrt{42}i}{175} & 0 & 0 & 0 & 0 & -\frac{8\sqrt{42}i}{3675} & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{4\sqrt{210}i}{3675} \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \end{pmatrix}$

continued ...

Table 6

No.	multipole	matrix									
217	$\mathbb{G}_{2,1}^{(1,1;a)}$	0	0	$-\frac{6\sqrt{7}i}{175}$	0	0	0	0	$\frac{\sqrt{42}i}{525}$	0	0
		0	0	0	$\frac{2\sqrt{21}i}{175}$	0	0	0	0	$\frac{2\sqrt{21}i}{525}$	0
		0	$-\frac{\sqrt{42}i}{175}$	0	0	0	0	$\frac{6\sqrt{7}i}{1225}$	0	0	0
		0	0	0	0	0	0	0	$\frac{2\sqrt{21}i}{735}$	0	0
		0	0	0	$\frac{\sqrt{42}i}{175}$	0	0	0	0	$\frac{2\sqrt{42}i}{3675}$	0
		0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{70}i}{1225}$
218	$\mathbb{G}_{2,0}^{(1,1;a)}$	0	$\frac{2\sqrt{42}i}{175}$	0	0	0	0	$-\frac{\sqrt{7}i}{175}$	0	0	0
		0	0	$-\frac{2\sqrt{42}i}{175}$	0	0	0	0	$-\frac{\sqrt{7}i}{175}$	0	0
		$\frac{\sqrt{21}i}{175}$	0	0	0	0	$-\frac{4\sqrt{21}i}{1225}$	0	0	0	0
		0	$-\frac{\sqrt{21}i}{175}$	0	0	0	0	$-\frac{2\sqrt{14}i}{1225}$	0	0	0
		0	0	$-\frac{\sqrt{21}i}{175}$	0	0	0	0	$\frac{2\sqrt{14}i}{1225}$	0	0
		0	0	0	$\frac{\sqrt{21}i}{175}$	0	0	0	0	$\frac{4\sqrt{21}i}{1225}$	0
219	$\mathbb{G}_{2,-1}^{(1,1;a)}$	$-\frac{2\sqrt{21}i}{175}$	0	0	0	0	$\frac{2\sqrt{21}i}{525}$	0	0	0	0
		0	$\frac{6\sqrt{7}i}{175}$	0	0	0	0	$\frac{\sqrt{42}i}{525}$	0	0	0
		0	0	0	0	$\frac{2\sqrt{70}i}{1225}$	0	0	0	0	0
		$\frac{\sqrt{42}i}{175}$	0	0	0	0	$-\frac{2\sqrt{42}i}{3675}$	0	0	0	0
		0	0	0	0	0	0	$-\frac{2\sqrt{21}i}{735}$	0	0	0
		0	0	$-\frac{\sqrt{42}i}{175}$	0	0	0	0	$-\frac{6\sqrt{7}i}{1225}$	0	0
220	$\mathbb{G}_{2,-2}^{(1,1;a)}$	0	0	0	0	$-\frac{\sqrt{105}i}{525}$	0	0	0	0	0
		$-\frac{4\sqrt{21}i}{175}$	0	0	0	0	$-\frac{\sqrt{21}i}{525}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{4\sqrt{210}i}{3675}$	0	0	0	0	0
		$\frac{\sqrt{42}i}{175}$	0	0	0	0	$\frac{8\sqrt{42}i}{3675}$	0	0	0	0
		0	$\frac{\sqrt{42}i}{175}$	0	0	0	0	0	$\frac{4\sqrt{7}i}{1225}$	0	0

continued ...

Table 6

No.	multipole	matrix
221	$\mathbb{T}_{1,1}^{(a)}$	$\begin{pmatrix} 0 & 0 & -\frac{2i}{9} & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & -\frac{2\sqrt{3}i}{9} & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & \frac{2\sqrt{6}i}{45} & 0 & 0 & 0 & 0 & -\frac{2i}{15} & 0 & 0 & 0 \\ 0 & 0 & \frac{4\sqrt{2}i}{45} & 0 & 0 & 0 & 0 & -\frac{2\sqrt{3}i}{15} & 0 & 0 \\ 0 & 0 & 0 & \frac{2\sqrt{6}i}{45} & 0 & 0 & 0 & 0 & -\frac{2\sqrt{6}i}{15} & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{2\sqrt{10}i}{15} \end{pmatrix}$
222	$\mathbb{T}_{1,0}^{(a)}$	$\begin{pmatrix} 0 & \frac{2\sqrt{2}i}{9} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & \frac{2\sqrt{2}i}{9} & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ -\frac{2i}{15} & 0 & 0 & 0 & 0 & \frac{4i}{15} & 0 & 0 & 0 & 0 \\ 0 & -\frac{2i}{45} & 0 & 0 & 0 & 0 & \frac{2\sqrt{6}i}{15} & 0 & 0 & 0 \\ 0 & 0 & \frac{2i}{45} & 0 & 0 & 0 & 0 & \frac{2\sqrt{6}i}{15} & 0 & 0 \\ 0 & 0 & 0 & \frac{2i}{15} & 0 & 0 & 0 & 0 & \frac{4i}{15} & 0 \end{pmatrix}$
223	$\mathbb{T}_{1,-1}^{(a)}$	$\begin{pmatrix} -\frac{2\sqrt{3}i}{9} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & -\frac{2i}{9} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & -\frac{2\sqrt{10}i}{15} & 0 & 0 & 0 & 0 & 0 \\ -\frac{2\sqrt{6}i}{45} & 0 & 0 & 0 & 0 & -\frac{2\sqrt{6}i}{15} & 0 & 0 & 0 & 0 \\ 0 & -\frac{4\sqrt{2}i}{45} & 0 & 0 & 0 & 0 & -\frac{2\sqrt{3}i}{15} & 0 & 0 & 0 \\ 0 & 0 & -\frac{2\sqrt{6}i}{45} & 0 & 0 & 0 & 0 & 0 & -\frac{2i}{15} & 0 \end{pmatrix}$
224	$\mathbb{T}_{3,3}^{(a)}$	$\begin{pmatrix} 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{6}i}{35} \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & -\frac{6\sqrt{5}i}{175} & 0 & 0 & 0 & 0 & \frac{3\sqrt{5}i}{175} & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{3}i}{35} \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \end{pmatrix}$

continued ...

Table 6

No.	multipole	matrix									
225	$\mathbb{T}_{3,2}^{(a)}$	0	0	0	0	0	0	0	0	$-\frac{\sqrt{5}i}{35}$	0
		0	0	0	0	0	0	0	0	0	$\frac{i}{35}$
		0	0	$\frac{3\sqrt{10}i}{175}$	0	0	0	0	$-\frac{2\sqrt{15}i}{175}$	0	0
		0	0	0	$-\frac{3\sqrt{10}i}{175}$	0	0	0	0	$-\frac{\sqrt{10}i}{175}$	0
		0	0	0	0	0	0	0	0	0	$\frac{\sqrt{2}i}{35}$
		0	0	0	0	0	0	0	0	0	0
226	$\mathbb{T}_{3,1}^{(a)}$	0	0	0	0	0	0	0	$\frac{2i}{35}$	0	0
		0	0	0	0	0	0	0	0	$-\frac{\sqrt{2}i}{35}$	0
		0	$-\frac{6i}{175}$	0	0	0	0	$\frac{3\sqrt{6}i}{175}$	0	0	0
		0	0	$\frac{6\sqrt{3}i}{175}$	0	0	0	0	$-\frac{\sqrt{2}i}{175}$	0	0
		0	0	0	$-\frac{6i}{175}$	0	0	0	0	$-\frac{i}{25}$	0
		0	0	0	0	0	0	0	0	0	$\frac{\sqrt{15}i}{175}$
227	$\mathbb{T}_{3,0}^{(a)}$	0	0	0	0	0	0	$-\frac{\sqrt{3}i}{35}$	0	0	0
		0	0	0	0	0	0	0	$\frac{\sqrt{3}i}{35}$	0	0
		$\frac{3i}{175}$	0	0	0	0	$-\frac{6i}{175}$	0	0	0	0
		0	$-\frac{9i}{175}$	0	0	0	0	$\frac{2\sqrt{6}i}{175}$	0	0	0
		0	0	$\frac{9i}{175}$	0	0	0	0	$\frac{2\sqrt{6}i}{175}$	0	0
		0	0	0	$-\frac{3i}{175}$	0	0	0	0	$-\frac{6i}{175}$	0
228	$\mathbb{T}_{3,-1}^{(a)}$	0	0	0	0	0	$\frac{\sqrt{2}i}{35}$	0	0	0	0
		0	0	0	0	0	0	$-\frac{2i}{35}$	0	0	0
		0	0	0	0	$\frac{\sqrt{15}i}{175}$	0	0	0	0	0
		$\frac{6i}{175}$	0	0	0	0	$-\frac{i}{25}$	0	0	0	0
		0	$-\frac{6\sqrt{3}i}{175}$	0	0	0	0	$-\frac{\sqrt{2}i}{175}$	0	0	0
		0	0	$\frac{6i}{175}$	0	0	0	0	$\frac{3\sqrt{6}i}{175}$	0	0

continued ...

Table 6

No.	multipole	matrix
229	$\mathbb{T}_{3,-2}^{(a)}$	$\begin{pmatrix} 0 & 0 & 0 & 0 & -\frac{i}{35} & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{5}i}{35} & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & \frac{\sqrt{2}i}{35} & 0 & 0 & 0 & 0 & 0 \\ \frac{3\sqrt{10}i}{175} & 0 & 0 & 0 & 0 & -\frac{\sqrt{10}i}{175} & 0 & 0 & 0 & 0 \\ 0 & -\frac{3\sqrt{10}i}{175} & 0 & 0 & 0 & 0 & -\frac{2\sqrt{15}i}{175} & 0 & 0 & 0 \end{pmatrix}$
230	$\mathbb{T}_{3,-3}^{(a)}$	$\begin{pmatrix} 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & -\frac{\sqrt{6}i}{35} & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & \frac{\sqrt{3}i}{35} & 0 & 0 & 0 & 0 & 0 \\ \frac{6\sqrt{5}i}{175} & 0 & 0 & 0 & 0 & \frac{3\sqrt{5}i}{175} & 0 & 0 & 0 & 0 \end{pmatrix}$
231	$\mathbb{T}_{3,3}^{(1,-1;a)}$	$\begin{pmatrix} 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{4\sqrt{10}i}{45} \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & -\frac{4\sqrt{3}i}{45} & 0 & 0 & 0 & 0 & -\frac{8\sqrt{3}i}{45} & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{8\sqrt{5}i}{45} \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \end{pmatrix}$
232	$\mathbb{T}_{3,2}^{(1,-1;a)}$	$\begin{pmatrix} 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{4\sqrt{3}i}{27} & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{4\sqrt{15}i}{135} \\ 0 & 0 & \frac{2\sqrt{6}i}{45} & 0 & 0 & 0 & 0 & \frac{16i}{45} & 0 & 0 \\ 0 & 0 & 0 & -\frac{2\sqrt{6}i}{45} & 0 & 0 & 0 & 0 & \frac{8\sqrt{6}i}{135} & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{8\sqrt{30}i}{135} \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \end{pmatrix}$

continued ...

Table 6

No.	multipole	matrix									
233	$\mathbb{T}_{3,1}^{(1,-1;a)}$	0	0	0	0	0	0	0	$\frac{8\sqrt{15}i}{135}$	0	0
		0	0	0	0	0	0	0	0	$-\frac{4\sqrt{30}i}{135}$	0
		0	$-\frac{4\sqrt{15}i}{225}$	0	0	0	0	$-\frac{8\sqrt{10}i}{75}$	0	0	0
		0	0	$\frac{4\sqrt{5}i}{75}$	0	0	0	0	$\frac{8\sqrt{30}i}{675}$	0	0
		0	0	0	$-\frac{4\sqrt{15}i}{225}$	0	0	0	0	$\frac{56\sqrt{15}i}{675}$	0
		0	0	0	0	0	0	0	0	0	$-\frac{8i}{45}$
234	$\mathbb{T}_{3,0}^{(1,-1;a)}$	0	0	0	0	0	0	$-\frac{4\sqrt{5}i}{45}$	0	0	0
		0	0	0	0	0	0	0	$\frac{4\sqrt{5}i}{45}$	0	0
		$\frac{2\sqrt{15}i}{225}$	0	0	0	0	$\frac{16\sqrt{15}i}{225}$	0	0	0	0
		0	$-\frac{2\sqrt{15}i}{75}$	0	0	0	0	$-\frac{16\sqrt{10}i}{225}$	0	0	0
		0	0	$\frac{2\sqrt{15}i}{75}$	0	0	0	0	$-\frac{16\sqrt{10}i}{225}$	0	0
		0	0	0	$-\frac{2\sqrt{15}i}{225}$	0	0	0	0	$\frac{16\sqrt{15}i}{225}$	0
235	$\mathbb{T}_{3,-1}^{(1,-1;a)}$	0	0	0	0	0	$\frac{4\sqrt{30}i}{135}$	0	0	0	0
		0	0	0	0	0	0	$-\frac{8\sqrt{15}i}{135}$	0	0	0
		0	0	0	0	$-\frac{8i}{45}$	0	0	0	0	0
		$\frac{4\sqrt{15}i}{225}$	0	0	0	0	$\frac{56\sqrt{15}i}{675}$	0	0	0	0
		0	$-\frac{4\sqrt{5}i}{75}$	0	0	0	0	$\frac{8\sqrt{30}i}{675}$	0	0	0
		0	0	$\frac{4\sqrt{15}i}{225}$	0	0	0	0	$-\frac{8\sqrt{10}i}{75}$	0	0
236	$\mathbb{T}_{3,-2}^{(1,-1;a)}$	0	0	0	0	$-\frac{4\sqrt{15}i}{135}$	0	0	0	0	0
		0	0	0	0	0	$\frac{4\sqrt{3}i}{27}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{8\sqrt{30}i}{135}$	0	0	0	0	0
		$\frac{2\sqrt{6}i}{45}$	0	0	0	0	$\frac{8\sqrt{6}i}{135}$	0	0	0	0
		0	$-\frac{2\sqrt{6}i}{45}$	0	0	0	0	$\frac{16i}{45}$	0	0	0

continued ...

Table 6

No.	multipole	matrix
237	$\mathbb{T}_{3,-3}^{(1,-1;a)}$	$\begin{pmatrix} 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & -\frac{4\sqrt{10}i}{45} & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & -\frac{8\sqrt{5}i}{45} & 0 & 0 & 0 & 0 & 0 \\ \frac{4\sqrt{3}i}{45} & 0 & 0 & 0 & 0 & -\frac{8\sqrt{3}i}{45} & 0 & 0 & 0 & 0 \end{pmatrix}$
238	$\mathbb{T}_{1,1}^{(1,0;a)}$	$\begin{pmatrix} 0 & 0 & -\frac{\sqrt{2}i}{6} & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & -\frac{\sqrt{6}i}{6} & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & \frac{4\sqrt{3}i}{15} & 0 & 0 & 0 & 0 & \frac{\sqrt{2}i}{10} & 0 & 0 & 0 \\ 0 & 0 & \frac{8i}{15} & 0 & 0 & 0 & 0 & \frac{\sqrt{6}i}{10} & 0 & 0 \\ 0 & 0 & 0 & \frac{4\sqrt{3}i}{15} & 0 & 0 & 0 & 0 & \frac{\sqrt{3}i}{5} & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{5}i}{5} \end{pmatrix}$
239	$\mathbb{T}_{1,0}^{(1,0;a)}$	$\begin{pmatrix} 0 & \frac{i}{3} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & \frac{i}{3} & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ -\frac{2\sqrt{2}i}{5} & 0 & 0 & 0 & 0 & -\frac{\sqrt{2}i}{5} & 0 & 0 & 0 & 0 \\ 0 & -\frac{2\sqrt{2}i}{15} & 0 & 0 & 0 & 0 & -\frac{\sqrt{3}i}{5} & 0 & 0 & 0 \\ 0 & 0 & \frac{2\sqrt{2}i}{15} & 0 & 0 & 0 & 0 & -\frac{\sqrt{3}i}{5} & 0 & 0 \\ 0 & 0 & 0 & \frac{2\sqrt{2}i}{5} & 0 & 0 & 0 & 0 & -\frac{\sqrt{2}i}{5} & 0 \end{pmatrix}$
240	$\mathbb{T}_{1,-1}^{(1,0;a)}$	$\begin{pmatrix} -\frac{\sqrt{6}i}{6} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & -\frac{\sqrt{2}i}{6} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & \frac{\sqrt{5}i}{5} & 0 & 0 & 0 & 0 & 0 \\ -\frac{4\sqrt{3}i}{15} & 0 & 0 & 0 & 0 & \frac{\sqrt{3}i}{5} & 0 & 0 & 0 & 0 \\ 0 & -\frac{8i}{15} & 0 & 0 & 0 & 0 & \frac{\sqrt{6}i}{10} & 0 & 0 & 0 \\ 0 & 0 & -\frac{4\sqrt{3}i}{15} & 0 & 0 & 0 & 0 & \frac{\sqrt{2}i}{10} & 0 & 0 \end{pmatrix}$

continued ...

Table 6

No.	multipole	matrix
241	$\mathbb{T}_{3,3}^{(1,0;a)}$	$\begin{pmatrix} 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{2\sqrt{2}i}{7} \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & -\frac{4\sqrt{15}i}{35} & 0 & 0 & 0 & 0 & -\frac{\sqrt{15}i}{70} & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{i}{14} \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \end{pmatrix}$
242	$\mathbb{T}_{3,2}^{(1,0;a)}$	$\begin{pmatrix} 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{2\sqrt{15}i}{21} & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{2\sqrt{3}i}{21} \\ 0 & 0 & \frac{2\sqrt{30}i}{35} & 0 & 0 & 0 & 0 & \frac{\sqrt{5}i}{35} & 0 & 0 \\ 0 & 0 & 0 & -\frac{2\sqrt{30}i}{35} & 0 & 0 & 0 & 0 & \frac{\sqrt{30}i}{210} & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{6}i}{42} \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \end{pmatrix}$
243	$\mathbb{T}_{3,1}^{(1,0;a)}$	$\begin{pmatrix} 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{4\sqrt{3}i}{21} & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{2\sqrt{6}i}{21} & 0 \\ 0 & -\frac{4\sqrt{3}i}{35} & 0 & 0 & 0 & 0 & -\frac{3\sqrt{2}i}{70} & 0 & 0 & 0 \\ 0 & 0 & \frac{12i}{35} & 0 & 0 & 0 & 0 & \frac{\sqrt{6}i}{210} & 0 & 0 \\ 0 & 0 & 0 & -\frac{4\sqrt{3}i}{35} & 0 & 0 & 0 & 0 & \frac{\sqrt{3}i}{30} & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{5}i}{70} \end{pmatrix}$
244	$\mathbb{T}_{3,0}^{(1,0;a)}$	$\begin{pmatrix} 0 & 0 & 0 & 0 & 0 & 0 & \frac{2i}{7} & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{2i}{7} & 0 & 0 \\ \frac{2\sqrt{3}i}{35} & 0 & 0 & 0 & 0 & \frac{\sqrt{3}i}{35} & 0 & 0 & 0 & 0 \\ 0 & -\frac{6\sqrt{3}i}{35} & 0 & 0 & 0 & 0 & -\frac{\sqrt{2}i}{35} & 0 & 0 & 0 \\ 0 & 0 & \frac{6\sqrt{3}i}{35} & 0 & 0 & 0 & 0 & -\frac{\sqrt{2}i}{35} & 0 & 0 \\ 0 & 0 & 0 & -\frac{2\sqrt{3}i}{35} & 0 & 0 & 0 & 0 & \frac{\sqrt{3}i}{35} & 0 \end{pmatrix}$

continued ...

Table 6

No.	multipole	matrix									
245	$\mathbb{T}_{3,-1}^{(1,0;a)}$	0	0	0	0	0	$-\frac{2\sqrt{6}i}{21}$	0	0	0	0
		0	0	0	0	0	0	$\frac{4\sqrt{3}i}{21}$	0	0	0
		0	0	0	0	$-\frac{\sqrt{5}i}{70}$	0	0	0	0	0
		$\frac{4\sqrt{3}i}{35}$	0	0	0	0	$\frac{\sqrt{3}i}{30}$	0	0	0	0
		0	$-\frac{12i}{35}$	0	0	0	0	$\frac{\sqrt{6}i}{210}$	0	0	0
		0	0	$\frac{4\sqrt{3}i}{35}$	0	0	0	0	$-\frac{3\sqrt{2}i}{70}$	0	0
246	$\mathbb{T}_{3,-2}^{(1,0;a)}$	0	0	0	0	$\frac{2\sqrt{3}i}{21}$	0	0	0	0	0
		0	0	0	0	0	$-\frac{2\sqrt{15}i}{21}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{\sqrt{6}i}{42}$	0	0	0	0	0
		$\frac{2\sqrt{30}i}{35}$	0	0	0	0	$\frac{\sqrt{30}i}{210}$	0	0	0	0
		0	$-\frac{2\sqrt{30}i}{35}$	0	0	0	0	$\frac{\sqrt{5}i}{35}$	0	0	0
247	$\mathbb{T}_{3,-3}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{2\sqrt{2}i}{7}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{i}{14}$	0	0	0	0	0
		$\frac{4\sqrt{15}i}{35}$	0	0	0	0	$-\frac{\sqrt{15}i}{70}$	0	0	0	0
248	$\mathbb{T}_{1,1}^{(1,1;a)}$	0	0	$\frac{\sqrt{10}i}{15}$	0	0	0	0	0	0	0
		0	0	0	$\frac{\sqrt{30}i}{15}$	0	0	0	0	0	0
		0	$\frac{4\sqrt{15}i}{75}$	0	0	0	$-\frac{\sqrt{10}i}{75}$	0	0	0	0
		0	0	$\frac{8\sqrt{5}i}{75}$	0	0	0	$-\frac{\sqrt{30}i}{75}$	0	0	0
		0	0	0	$\frac{4\sqrt{15}i}{75}$	0	0	0	$-\frac{2\sqrt{15}i}{75}$	0	0
		0	0	0	0	0	0	0	0	$-\frac{2i}{15}$	0

continued ...

Table 6

No.	multipole	matrix									
249	$\mathbb{T}_{1,0}^{(1,1;a)}$	0	$-\frac{2\sqrt{5}i}{15}$	0	0	0	0	0	0	0	0
		0	0	$-\frac{2\sqrt{5}i}{15}$	0	0	0	0	0	0	0
		$-\frac{2\sqrt{10}i}{25}$	0	0	0	0	$\frac{2\sqrt{10}i}{75}$	0	0	0	0
		0	$-\frac{2\sqrt{10}i}{75}$	0	0	0	0	$\frac{2\sqrt{15}i}{75}$	0	0	0
		0	0	$\frac{2\sqrt{10}i}{75}$	0	0	0	0	$\frac{2\sqrt{15}i}{75}$	0	0
		0	0	0	$\frac{2\sqrt{10}i}{25}$	0	0	0	0	0	$\frac{2\sqrt{10}i}{75}$
250	$\mathbb{T}_{1,-1}^{(1,1;a)}$	$\frac{\sqrt{30}i}{15}$	0	0	0	0	0	0	0	0	0
		0	$\frac{\sqrt{10}i}{15}$	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{2i}{15}$	0	0	0	0	0
		$-\frac{4\sqrt{15}i}{75}$	0	0	0	0	$-\frac{2\sqrt{15}i}{75}$	0	0	0	0
		0	$-\frac{8\sqrt{5}i}{75}$	0	0	0	0	$-\frac{\sqrt{30}i}{75}$	0	0	0
		0	0	$-\frac{4\sqrt{15}i}{75}$	0	0	0	0	$-\frac{\sqrt{10}i}{75}$	0	0
251	$\mathbb{M}_{2,2}^{(a)}$	0	0	0	$\frac{4}{5}$	0	0	0	0	$\frac{4}{15}$	0
		0	0	0	0	0	0	0	0	0	$\frac{4\sqrt{5}}{15}$
		0	0	$-\frac{2\sqrt{2}}{5}$	0	0	0	0	$\frac{4\sqrt{3}}{15}$	0	0
		0	0	0	$-\frac{2\sqrt{2}}{5}$	0	0	0	0	$\frac{8\sqrt{2}}{15}$	0
		0	0	0	0	0	0	0	0	0	$\frac{4\sqrt{10}}{15}$
		0	0	0	0	0	0	0	0	0	0
252	$\mathbb{M}_{2,1}^{(a)}$	0	0	$-\frac{2\sqrt{3}}{5}$	0	0	0	0	$-\frac{4\sqrt{2}}{15}$	0	0
		0	0	0	$\frac{2}{5}$	0	0	0	0	$-\frac{8}{15}$	0
		0	$\frac{2\sqrt{2}}{5}$	0	0	0	0	$-\frac{2\sqrt{3}}{5}$	0	0	0
		0	0	0	0	0	0	0	$-\frac{2}{3}$	0	0
		0	0	0	$-\frac{2\sqrt{2}}{5}$	0	0	0	0	$-\frac{2\sqrt{2}}{15}$	0
		0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{30}}{15}$

continued ...

Table 6

No.	multipole	matrix
253	$M_{2,0}^{(a)}$	$\begin{pmatrix} 0 & \frac{2\sqrt{2}}{5} & 0 & 0 & 0 & 0 & \frac{4\sqrt{3}}{15} & 0 & 0 & 0 \\ 0 & 0 & -\frac{2\sqrt{2}}{5} & 0 & 0 & 0 & 0 & \frac{4\sqrt{3}}{15} & 0 & 0 \\ -\frac{2}{5} & 0 & 0 & 0 & 0 & \frac{4}{5} & 0 & 0 & 0 & 0 \\ 0 & \frac{2}{5} & 0 & 0 & 0 & 0 & \frac{2\sqrt{6}}{15} & 0 & 0 & 0 \\ 0 & 0 & \frac{2}{5} & 0 & 0 & 0 & 0 & -\frac{2\sqrt{6}}{15} & 0 & 0 \\ 0 & 0 & 0 & -\frac{2}{5} & 0 & 0 & 0 & 0 & -\frac{4}{5} & 0 \end{pmatrix}$
254	$M_{2,-1}^{(a)}$	$\begin{pmatrix} -\frac{2}{5} & 0 & 0 & 0 & 0 & -\frac{8}{15} & 0 & 0 & 0 & 0 \\ 0 & \frac{2\sqrt{3}}{5} & 0 & 0 & 0 & 0 & -\frac{4\sqrt{2}}{15} & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & -\frac{2\sqrt{30}}{15} & 0 & 0 & 0 & 0 & 0 \\ -\frac{2\sqrt{2}}{5} & 0 & 0 & 0 & 0 & \frac{2\sqrt{2}}{15} & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & \frac{2}{3} & 0 & 0 & 0 \\ 0 & 0 & \frac{2\sqrt{2}}{5} & 0 & 0 & 0 & 0 & \frac{2\sqrt{3}}{5} & 0 & 0 \end{pmatrix}$
255	$M_{2,-2}^{(a)}$	$\begin{pmatrix} 0 & 0 & 0 & 0 & \frac{4\sqrt{5}}{15} & 0 & 0 & 0 & 0 & 0 \\ -\frac{4}{5} & 0 & 0 & 0 & 0 & \frac{4}{15} & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & -\frac{4\sqrt{10}}{15} & 0 & 0 & 0 & 0 & 0 \\ -\frac{2\sqrt{2}}{5} & 0 & 0 & 0 & 0 & -\frac{8\sqrt{2}}{15} & 0 & 0 & 0 & 0 \\ 0 & -\frac{2\sqrt{2}}{5} & 0 & 0 & 0 & 0 & -\frac{4\sqrt{3}}{15} & 0 & 0 & 0 \end{pmatrix}$
256	$M_{2,2}^{(1,-1;a)}$	$\begin{pmatrix} 0 & 0 & 0 & -\frac{\sqrt{6}}{15} & 0 & 0 & 0 & 0 & -\frac{2\sqrt{6}}{15} & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{2\sqrt{30}}{15} \\ 0 & 0 & \frac{2\sqrt{3}}{15} & 0 & 0 & 0 & 0 & \frac{\sqrt{2}}{5} & 0 & 0 \\ 0 & 0 & 0 & \frac{2\sqrt{3}}{15} & 0 & 0 & 0 & 0 & \frac{4\sqrt{3}}{15} & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{2\sqrt{15}}{15} \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \end{pmatrix}$

continued ...

Table 6

No.	multipole	matrix									
257	$M_{2,1}^{(1,-1;a)}$	0	0	$\frac{\sqrt{2}}{10}$	0	0	0	0	$\frac{4\sqrt{3}}{15}$	0	0
		0	0	0	$-\frac{\sqrt{6}}{30}$	0	0	0	0	$\frac{4\sqrt{6}}{15}$	0
		0	$-\frac{2\sqrt{3}}{15}$	0	0	0	0	$-\frac{3\sqrt{2}}{10}$	0	0	0
		0	0	0	0	0	0	0	$-\frac{\sqrt{6}}{6}$	0	0
		0	0	0	$\frac{2\sqrt{3}}{15}$	0	0	0	0	$-\frac{\sqrt{3}}{15}$	0
		0	0	0	0	0	0	0	0	0	$\frac{\sqrt{5}}{5}$
258	$M_{2,0}^{(1,-1;a)}$	0	$-\frac{\sqrt{3}}{15}$	0	0	0	0	$-\frac{2\sqrt{2}}{5}$	0	0	0
		0	0	$\frac{\sqrt{3}}{15}$	0	0	0	0	$-\frac{2\sqrt{2}}{5}$	0	0
		$\frac{\sqrt{6}}{15}$	0	0	0	0	$\frac{\sqrt{6}}{5}$	0	0	0	0
		0	$-\frac{\sqrt{6}}{15}$	0	0	0	0	$\frac{1}{5}$	0	0	0
		0	0	$-\frac{\sqrt{6}}{15}$	0	0	0	0	$-\frac{1}{5}$	0	0
		0	0	0	$\frac{\sqrt{6}}{15}$	0	0	0	0	$-\frac{\sqrt{6}}{5}$	0
259	$M_{2,-1}^{(1,-1;a)}$	$\frac{\sqrt{6}}{30}$	0	0	0	0	$\frac{4\sqrt{6}}{15}$	0	0	0	0
		0	$-\frac{\sqrt{2}}{10}$	0	0	0	0	$\frac{4\sqrt{3}}{15}$	0	0	0
		0	0	0	0	$-\frac{\sqrt{5}}{5}$	0	0	0	0	0
		$\frac{2\sqrt{3}}{15}$	0	0	0	0	$\frac{\sqrt{3}}{15}$	0	0	0	0
		0	0	0	0	0	0	$\frac{\sqrt{6}}{6}$	0	0	0
		0	0	$-\frac{2\sqrt{3}}{15}$	0	0	0	0	$\frac{3\sqrt{2}}{10}$	0	0
260	$M_{2,-2}^{(1,-1;a)}$	0	0	0	0	$-\frac{2\sqrt{30}}{15}$	0	0	0	0	0
		$\frac{\sqrt{6}}{15}$	0	0	0	0	$-\frac{2\sqrt{6}}{15}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{2\sqrt{15}}{15}$	0	0	0	0	0
		$\frac{2\sqrt{3}}{15}$	0	0	0	0	$-\frac{4\sqrt{3}}{15}$	0	0	0	0
		0	$\frac{2\sqrt{3}}{15}$	0	0	0	0	$-\frac{\sqrt{2}}{5}$	0	0	0

continued ...

Table 6

No.	multipole	matrix
261	$M_{4,4}^{(1,-1;a)}$	$\begin{pmatrix} 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{3\sqrt{2}}{7} \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \end{pmatrix}$
262	$M_{4,3}^{(1,-1;a)}$	$\begin{pmatrix} 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{3\sqrt{5}}{14} & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{3\sqrt{3}}{14} \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \end{pmatrix}$
263	$M_{4,2}^{(1,-1;a)}$	$\begin{pmatrix} 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{3\sqrt{35}}{49} & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{3\sqrt{210}}{98} & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{3\sqrt{42}}{98} \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \end{pmatrix}$
264	$M_{4,1}^{(1,-1;a)}$	$\begin{pmatrix} 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & \frac{3\sqrt{70}}{98} & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{3\sqrt{210}}{98} & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{3\sqrt{105}}{98} & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{3\sqrt{7}}{98} \end{pmatrix}$

continued ...

Table 6

No.	multipole	matrix
265	$\mathbb{M}_{4,0}^{(1,-1;a)}$	0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 $-\frac{3\sqrt{7}}{49}$ 0 0 0 0
		0 0 0 0 0 0 $\frac{3\sqrt{42}}{49}$ 0 0 0
		0 0 0 0 0 0 0 $-\frac{3\sqrt{42}}{49}$ 0 0
		0 0 0 0 0 0 0 0 $\frac{3\sqrt{7}}{49}$ 0
266	$\mathbb{M}_{4,-1}^{(1,-1;a)}$	0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0
		0 0 0 0 $\frac{3\sqrt{7}}{98}$ 0 0 0 0 0
		0 0 0 0 0 $-\frac{3\sqrt{105}}{98}$ 0 0 0 0
		0 0 0 0 0 0 $\frac{3\sqrt{210}}{98}$ 0 0 0
		0 0 0 0 0 0 0 $-\frac{3\sqrt{70}}{98}$ 0 0
267	$\mathbb{M}_{4,-2}^{(1,-1;a)}$	0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0
		0 0 0 0 $\frac{3\sqrt{42}}{98}$ 0 0 0 0 0
		0 0 0 0 0 $-\frac{3\sqrt{210}}{98}$ 0 0 0 0
		0 0 0 0 0 0 $\frac{3\sqrt{35}}{49}$ 0 0 0
268	$\mathbb{M}_{4,-3}^{(1,-1;a)}$	0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0
		0 0 0 0 $\frac{3\sqrt{3}}{14}$ 0 0 0 0 0
		0 0 0 0 0 $-\frac{3\sqrt{5}}{14}$ 0 0 0 0

continued ...

Table 6

No.	multipole	matrix
269	$M_{4,-4}^{(1,-1;a)}$	$\begin{pmatrix} 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & \frac{3\sqrt{2}}{7} & 0 & 0 & 0 & 0 & 0 \end{pmatrix}$
270	$M_{2,2}^{(1,0;a)}$	$\begin{pmatrix} 0 & 0 & 0 & -\frac{2\sqrt{6}}{45} & 0 & 0 & 0 & 0 & \frac{8\sqrt{6}}{135} & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{8\sqrt{30}}{135} \\ 0 & 0 & \frac{8\sqrt{3}}{45} & 0 & 0 & 0 & 0 & \frac{2\sqrt{2}}{45} & 0 & 0 \\ 0 & 0 & 0 & \frac{8\sqrt{3}}{45} & 0 & 0 & 0 & 0 & \frac{8\sqrt{3}}{135} & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{4\sqrt{15}}{135} \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \end{pmatrix}$
271	$M_{2,1}^{(1,0;a)}$	$\begin{pmatrix} 0 & 0 & \frac{\sqrt{2}}{15} & 0 & 0 & 0 & 0 & -\frac{16\sqrt{3}}{135} & 0 & 0 \\ 0 & 0 & 0 & -\frac{\sqrt{6}}{45} & 0 & 0 & 0 & 0 & -\frac{16\sqrt{6}}{135} & 0 \\ 0 & -\frac{8\sqrt{3}}{45} & 0 & 0 & 0 & 0 & -\frac{\sqrt{2}}{15} & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{6}}{27} & 0 & 0 \\ 0 & 0 & 0 & \frac{8\sqrt{3}}{45} & 0 & 0 & 0 & 0 & -\frac{2\sqrt{3}}{135} & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{2\sqrt{5}}{45} \end{pmatrix}$
272	$M_{2,0}^{(1,0;a)}$	$\begin{pmatrix} 0 & -\frac{2\sqrt{3}}{45} & 0 & 0 & 0 & 0 & \frac{8\sqrt{2}}{45} & 0 & 0 & 0 \\ 0 & 0 & \frac{2\sqrt{3}}{45} & 0 & 0 & 0 & 0 & \frac{8\sqrt{2}}{45} & 0 & 0 \\ \frac{4\sqrt{6}}{45} & 0 & 0 & 0 & 0 & 0 & \frac{2\sqrt{6}}{45} & 0 & 0 & 0 \\ 0 & -\frac{4\sqrt{6}}{45} & 0 & 0 & 0 & 0 & \frac{2}{45} & 0 & 0 & 0 \\ 0 & 0 & -\frac{4\sqrt{6}}{45} & 0 & 0 & 0 & 0 & -\frac{2}{45} & 0 & 0 \\ 0 & 0 & 0 & \frac{4\sqrt{6}}{45} & 0 & 0 & 0 & 0 & -\frac{2\sqrt{6}}{45} & 0 \end{pmatrix}$

continued ...

Table 6

No.	multipole	matrix										
273	$M_{2,-1}^{(1,0;a)}$	$\frac{\sqrt{6}}{45}$	0	0	0	0	0	$-\frac{16\sqrt{6}}{135}$	0	0	0	0
		0	$-\frac{\sqrt{2}}{15}$	0	0	0	0	0	$-\frac{16\sqrt{3}}{135}$	0	0	0
		0	0	0	0	$-\frac{2\sqrt{5}}{45}$	0	0	0	0	0	0
		$\frac{8\sqrt{3}}{45}$	0	0	0	0	0	$\frac{2\sqrt{3}}{135}$	0	0	0	0
		0	0	0	0	0	0	0	$\frac{\sqrt{6}}{27}$	0	0	0
		0	0	$-\frac{8\sqrt{3}}{45}$	0	0	0	0	0	$\frac{\sqrt{2}}{15}$	0	0
274	$M_{2,-2}^{(1,0;a)}$	0	0	0	0	$\frac{8\sqrt{30}}{135}$	0	0	0	0	0	
		$\frac{2\sqrt{6}}{45}$	0	0	0	0	$\frac{8\sqrt{6}}{135}$	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	$-\frac{4\sqrt{15}}{135}$	0	0	0	0	0	
		$\frac{8\sqrt{3}}{45}$	0	0	0	0	$-\frac{8\sqrt{3}}{135}$	0	0	0	0	
		0	$\frac{8\sqrt{3}}{45}$	0	0	0	0	0	$-\frac{2\sqrt{2}}{45}$	0	0	0
275	$M_{0,0}^{(1,1;a)}$	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	
		$-\frac{\sqrt{3}}{3}$	0	0	0	0	0	0	0	0	0	
		0	$-\frac{\sqrt{3}}{3}$	0	0	0	0	0	0	0	0	
		0	0	$-\frac{\sqrt{3}}{3}$	0	0	0	0	0	0	0	
		0	0	0	$-\frac{\sqrt{3}}{3}$	0	0	0	0	0	0	
276	$M_{2,2}^{(1,1;a)}$	0	0	0	$\frac{4\sqrt{21}}{35}$	0	0	0	$-\frac{\sqrt{21}}{105}$	0		
		0	0	0	0	0	0	0	0	$-\frac{\sqrt{105}}{105}$		
		0	0	$\frac{\sqrt{42}}{35}$	0	0	0	$-\frac{4\sqrt{7}}{245}$	0	0		
		0	0	0	$\frac{\sqrt{42}}{35}$	0	0	0	$-\frac{8\sqrt{42}}{735}$	0		
		0	0	0	0	0	0	0	0	$-\frac{4\sqrt{210}}{735}$		
		0	0	0	0	0	0	0	0	0		

continued ...

Table 6

No.	multipole	matrix									
277	$M_{2,1}^{(1,1;a)}$	0	0	$-\frac{6\sqrt{7}}{35}$	0	0	0	0	$\frac{\sqrt{42}}{105}$	0	0
		0	0	0	$\frac{2\sqrt{21}}{35}$	0	0	0	0	$\frac{2\sqrt{21}}{105}$	0
		0	$-\frac{\sqrt{42}}{35}$	0	0	0	0	$\frac{6\sqrt{7}}{245}$	0	0	0
		0	0	0	0	0	0	0	$\frac{2\sqrt{21}}{147}$	0	0
		0	0	0	$\frac{\sqrt{42}}{35}$	0	0	0	0	$\frac{2\sqrt{42}}{735}$	0
		0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{70}}{245}$
278	$M_{2,0}^{(1,1;a)}$	0	$\frac{2\sqrt{42}}{35}$	0	0	0	0	$-\frac{\sqrt{7}}{35}$	0	0	0
		0	0	$-\frac{2\sqrt{42}}{35}$	0	0	0	0	$-\frac{\sqrt{7}}{35}$	0	0
		$\frac{\sqrt{21}}{35}$	0	0	0	0	$-\frac{4\sqrt{21}}{245}$	0	0	0	0
		0	$-\frac{\sqrt{21}}{35}$	0	0	0	0	$-\frac{2\sqrt{14}}{245}$	0	0	0
		0	0	$-\frac{\sqrt{21}}{35}$	0	0	0	0	$\frac{2\sqrt{14}}{245}$	0	0
		0	0	0	$\frac{\sqrt{21}}{35}$	0	0	0	0	$\frac{4\sqrt{21}}{245}$	0
279	$M_{2,-1}^{(1,1;a)}$	$-\frac{2\sqrt{21}}{35}$	0	0	0	0	$\frac{2\sqrt{21}}{105}$	0	0	0	0
		0	$\frac{6\sqrt{7}}{35}$	0	0	0	0	$\frac{\sqrt{42}}{105}$	0	0	0
		0	0	0	0	$\frac{2\sqrt{70}}{245}$	0	0	0	0	0
		$\frac{\sqrt{42}}{35}$	0	0	0	0	$-\frac{2\sqrt{42}}{735}$	0	0	0	0
		0	0	0	0	0	0	$-\frac{2\sqrt{21}}{147}$	0	0	0
		0	0	$-\frac{\sqrt{42}}{35}$	0	0	0	0	$-\frac{6\sqrt{7}}{245}$	0	0
280	$M_{2,-2}^{(1,1;a)}$	0	0	0	0	$-\frac{\sqrt{105}}{105}$	0	0	0	0	0
		$-\frac{4\sqrt{21}}{35}$	0	0	0	0	$-\frac{\sqrt{21}}{105}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{4\sqrt{210}}{735}$	0	0	0	0	0
		$\frac{\sqrt{42}}{35}$	0	0	0	0	$\frac{8\sqrt{42}}{735}$	0	0	0	0
		0	$\frac{\sqrt{42}}{35}$	0	0	0	0	0	$\frac{4\sqrt{7}}{245}$	0	0

$$\text{bra:} = |\frac{1}{2}, \frac{1}{2}; p\rangle, |\frac{1}{2}, -\frac{1}{2}; p\rangle, |\frac{3}{2}, \frac{3}{2}; p\rangle, |\frac{3}{2}, \frac{1}{2}; p\rangle, |\frac{3}{2}, -\frac{1}{2}; p\rangle, |\frac{3}{2}, -\frac{3}{2}; p\rangle$$

$$\text{ket:} = |\frac{5}{2}, \frac{5}{2}; f\rangle, |\frac{5}{2}, \frac{3}{2}; f\rangle, |\frac{5}{2}, \frac{1}{2}; f\rangle, |\frac{5}{2}, -\frac{1}{2}; f\rangle, |\frac{5}{2}, -\frac{3}{2}; f\rangle, |\frac{5}{2}, -\frac{5}{2}; f\rangle, |\frac{7}{2}, \frac{7}{2}; f\rangle, |\frac{7}{2}, \frac{5}{2}; f\rangle, |\frac{7}{2}, \frac{3}{2}; f\rangle, |\frac{7}{2}, \frac{1}{2}; f\rangle, |\frac{7}{2}, -\frac{1}{2}; f\rangle, |\frac{7}{2}, -\frac{3}{2}; f\rangle, |\frac{7}{2}, -\frac{5}{2}; f\rangle, |\frac{7}{2}, -\frac{7}{2}; f\rangle$$

Table 7: (p,f) block.

No.	multipole	matrix
281	$\mathbb{Q}_{2,2}^{(a)}$	$\begin{array}{cccccccccccc} 0 & 0 & 0 & 0 & \frac{1}{5} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{5}}{5} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & -\frac{2\sqrt{3}}{35} & 0 & 0 & 0 & 0 & 0 & 0 & \frac{3}{35} & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & -\frac{4\sqrt{2}}{35} & 0 & 0 & 0 & 0 & 0 & 0 & \frac{3\sqrt{5}}{35} & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & -\frac{2\sqrt{10}}{35} & 0 & 0 & 0 & 0 & 0 & 0 & \frac{3\sqrt{15}}{35} & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{3\sqrt{35}}{35} \end{array}$
282	$\mathbb{Q}_{2,1}^{(a)}$	$\begin{array}{cccccccccccc} 0 & 0 & 0 & -\frac{\sqrt{2}}{5} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & -\frac{2}{5} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & \frac{3\sqrt{3}}{35} & 0 & 0 & 0 & 0 & 0 & -\frac{6}{35} & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & \frac{1}{7} & 0 & 0 & 0 & 0 & 0 & -\frac{6\sqrt{3}}{35} & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & \frac{\sqrt{2}}{35} & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{6\sqrt{5}}{35} & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{30}}{35} & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{6\sqrt{5}}{35} & 0 \end{array}$
283	$\mathbb{Q}_{2,0}^{(a)}$	$\begin{array}{cccccccccccc} 0 & 0 & \frac{\sqrt{3}}{5} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & \frac{\sqrt{3}}{5} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & -\frac{6}{35} & 0 & 0 & 0 & 0 & 0 & 0 & \frac{3\sqrt{10}}{35} & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & -\frac{\sqrt{6}}{35} & 0 & 0 & 0 & 0 & 0 & 0 & \frac{9\sqrt{2}}{35} & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & \frac{\sqrt{6}}{35} & 0 & 0 & 0 & 0 & 0 & 0 & \frac{9\sqrt{2}}{35} & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & \frac{6}{35} & 0 & 0 & 0 & 0 & 0 & 0 & \frac{3\sqrt{10}}{35} & 0 & 0 \end{array}$

continued ...

Table 7

No.	multipole	matrix															
284	$Q_{2,-1}^{(a)}$	0	$-\frac{2}{5}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$-\frac{\sqrt{2}}{5}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		$\frac{\sqrt{30}}{35}$	0	0	0	0	0	0	$-\frac{6\sqrt{5}}{35}$	0	0	0	0	0	0	0	0
		0	$-\frac{\sqrt{2}}{35}$	0	0	0	0	0	0	$-\frac{6\sqrt{5}}{35}$	0	0	0	0	0	0	0
		0	0	$-\frac{1}{7}$	0	0	0	0	0	0	$-\frac{6\sqrt{3}}{35}$	0	0	0	0	0	0
		0	0	0	$-\frac{3\sqrt{3}}{35}$	0	0	0	0	0	0	0	$-\frac{6}{35}$	0	0	0	0
285	$Q_{2,-2}^{(a)}$	$\frac{\sqrt{5}}{5}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	$\frac{1}{5}$	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	$\frac{3\sqrt{35}}{35}$	0	0	0	0	0	0	0	0	
		$\frac{2\sqrt{10}}{35}$	0	0	0	0	0	0	$\frac{3\sqrt{15}}{35}$	0	0	0	0	0	0	0	
		0	$\frac{4\sqrt{2}}{35}$	0	0	0	0	0	0	$\frac{3\sqrt{5}}{35}$	0	0	0	0	0	0	
		0	0	$\frac{2\sqrt{3}}{35}$	0	0	0	0	0	0	$\frac{3}{35}$	0	0	0	0	0	
286	$Q_{4,4}^{(a)}$	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{2}}{9}$	0		
		0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		0	0	0	0	0	$\frac{2\sqrt{14}}{21}$	0	0	0	0	0	0	$-\frac{2\sqrt{21}}{63}$	0		
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{2}{9}$	0		
		0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		0	0	0	0	0	0	0	0	0	0	0	0	0	0		
287	$Q_{4,3}^{(a)}$	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{7}}{9}$	0			
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{1}{9}$			
		0	0	0	0	$-\frac{\sqrt{35}}{21}$	0	0	0	0	0	$\frac{\sqrt{14}}{21}$	0	0			
		0	0	0	0	0	$\frac{\sqrt{21}}{21}$	0	0	0	0	0	$\frac{2\sqrt{14}}{63}$	0			
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{2}}{9}$			
		0	0	0	0	0	0	0	0	0	0	0	0	0			

continued ...

Table 7

No.	multipole	matrix
288	$Q_{4,2}^{(a)}$	$\begin{matrix} 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{6}}{9} & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{2}}{9} & 0 \\ 0 & 0 & 0 & \frac{2\sqrt{5}}{21} & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{15}}{21} & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & -\frac{\sqrt{30}}{21} & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{3}}{63} & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{6}}{21} & 0 & 0 & 0 & 0 & 0 & 0 & \frac{11}{63} & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{21}}{63} \end{matrix}$
289	$Q_{4,1}^{(a)}$	$\begin{matrix} 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{5}}{9} & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{3}}{9} & 0 & 0 \\ 0 & 0 & -\frac{\sqrt{10}}{21} & 0 & 0 & 0 & 0 & 0 & 0 & \frac{2\sqrt{30}}{63} & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & \frac{\sqrt{30}}{21} & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{10}}{63} & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & -\frac{\sqrt{15}}{21} & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{4\sqrt{6}}{63} & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & \frac{1}{21} & 0 & 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{6}}{21} & 0 \end{matrix}$
290	$Q_{4,0}^{(a)}$	$\begin{matrix} 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{2}{9} & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{2}{9} & 0 & 0 & 0 \\ 0 & \frac{2}{21} & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{10}}{21} & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & -\frac{2\sqrt{6}}{21} & 0 & 0 & 0 & 0 & 0 & 0 & \frac{5\sqrt{2}}{63} & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & \frac{2\sqrt{6}}{21} & 0 & 0 & 0 & 0 & 0 & 0 & \frac{5\sqrt{2}}{63} & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & -\frac{2}{21} & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{10}}{21} & 0 & 0 \end{matrix}$
291	$Q_{4,-1}^{(a)}$	$\begin{matrix} 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{3}}{9} & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{5}}{9} & 0 & 0 & 0 & 0 \\ -\frac{1}{21} & 0 & 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{6}}{21} & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & \frac{\sqrt{15}}{21} & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{4\sqrt{6}}{63} & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & -\frac{\sqrt{30}}{21} & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{10}}{63} & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & \frac{\sqrt{10}}{21} & 0 & 0 & 0 & 0 & 0 & 0 & \frac{2\sqrt{30}}{63} & 0 & 0 & 0 \end{matrix}$

continued ...

Table 7

No.	multipole	matrix													
292	$Q_{4,-2}^{(a)}$	0	0	0	0	0	0	0	$-\frac{\sqrt{2}}{9}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$\frac{\sqrt{6}}{9}$	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{\sqrt{21}}{63}$	0	0	0	0	0	0	0
		$-\frac{\sqrt{6}}{21}$	0	0	0	0	0	0	$\frac{11}{63}$	0	0	0	0	0	0
		0	$\frac{\sqrt{30}}{21}$	0	0	0	0	0	0	$-\frac{\sqrt{3}}{63}$	0	0	0	0	0
		0	0	$-\frac{2\sqrt{5}}{21}$	0	0	0	0	0	0	0	$-\frac{\sqrt{15}}{21}$	0	0	0
293	$Q_{4,-3}^{(a)}$	0	0	0	0	0	0	$\frac{1}{9}$	0	0	0	0	0	0	
		0	0	0	0	0	0	0	$-\frac{\sqrt{7}}{9}$	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	$-\frac{\sqrt{2}}{9}$	0	0	0	0	0	0	
		$-\frac{\sqrt{21}}{21}$	0	0	0	0	0	0	$\frac{2\sqrt{14}}{63}$	0	0	0	0	0	
		0	$\frac{\sqrt{35}}{21}$	0	0	0	0	0	0	$\frac{\sqrt{14}}{21}$	0	0	0	0	0
294	$Q_{4,-4}^{(a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	$\frac{2\sqrt{2}}{9}$	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	$-\frac{2}{9}$	0	0	0	0	0	0	
		$-\frac{2\sqrt{14}}{21}$	0	0	0	0	0	0	$-\frac{2\sqrt{21}}{63}$	0	0	0	0	0	
295	$Q_{4,4}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{3\sqrt{14}}{14}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	$\frac{3\sqrt{2}}{14}$	0	0	0	0	0	$\frac{3\sqrt{3}}{7}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{3\sqrt{7}}{7}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	

continued ...

Table 7

No.	multipole	matrix														
296	$\mathbb{Q}_{4,3}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{3}{4}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{3\sqrt{7}}{28}$	0
		0	0	0	0	$-\frac{3\sqrt{5}}{28}$	0	0	0	0	0	0	$-\frac{9\sqrt{2}}{14}$	0	0	0
		0	0	0	0	0	$\frac{3\sqrt{3}}{28}$	0	0	0	0	0	0	$-\frac{3\sqrt{2}}{7}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{3\sqrt{14}}{14}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
297	$\mathbb{Q}_{4,2}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	$-\frac{3\sqrt{42}}{28}$	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{3\sqrt{14}}{28}$	0	
		0	0	0	$\frac{3\sqrt{35}}{98}$	0	0	0	0	0	$\frac{9\sqrt{105}}{98}$	0	0	0	0	0
		0	0	0	0	$-\frac{3\sqrt{210}}{196}$	0	0	0	0	0	$\frac{3\sqrt{21}}{98}$	0	0	0	0
		0	0	0	0	0	$\frac{3\sqrt{42}}{196}$	0	0	0	0	0	0	$-\frac{33\sqrt{7}}{98}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{3\sqrt{3}}{14}$
298	$\mathbb{Q}_{4,1}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	$\frac{3\sqrt{35}}{28}$	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	$-\frac{3\sqrt{21}}{28}$	0	0	
		0	0	$-\frac{3\sqrt{70}}{196}$	0	0	0	0	0	$-\frac{3\sqrt{210}}{49}$	0	0	0	0	0	0
		0	0	0	$\frac{3\sqrt{210}}{196}$	0	0	0	0	0	$\frac{3\sqrt{70}}{98}$	0	0	0	0	0
		0	0	0	0	$-\frac{3\sqrt{105}}{196}$	0	0	0	0	0	0	$\frac{6\sqrt{42}}{49}$	0	0	0
		0	0	0	0	0	$\frac{3\sqrt{7}}{196}$	0	0	0	0	0	0	0	$-\frac{9\sqrt{42}}{98}$	0
299	$\mathbb{Q}_{4,0}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	$-\frac{3\sqrt{7}}{14}$	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	$\frac{3\sqrt{7}}{14}$	0	0	0	
		0	$\frac{3\sqrt{7}}{98}$	0	0	0	0	0	0	$\frac{9\sqrt{70}}{98}$	0	0	0	0	0	0
		0	0	$-\frac{3\sqrt{42}}{98}$	0	0	0	0	0	0	$-\frac{15\sqrt{14}}{98}$	0	0	0	0	0
		0	0	0	$\frac{3\sqrt{42}}{98}$	0	0	0	0	0	0	$-\frac{15\sqrt{14}}{98}$	0	0	0	0
		0	0	0	0	$-\frac{3\sqrt{7}}{98}$	0	0	0	0	0	0	0	$\frac{9\sqrt{70}}{98}$	0	0

continued ...

Table 7

No.	multipole	matrix													
300	$\mathbb{Q}_{4,-1}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	$\frac{3\sqrt{21}}{28}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$-\frac{3\sqrt{35}}{28}$	0	0	0	0
		$-\frac{3\sqrt{7}}{196}$	0	0	0	0	0	0	$-\frac{9\sqrt{42}}{98}$	0	0	0	0	0	0
		0	$\frac{3\sqrt{105}}{196}$	0	0	0	0	0	0	$\frac{6\sqrt{42}}{49}$	0	0	0	0	0
		0	0	$-\frac{3\sqrt{210}}{196}$	0	0	0	0	0	0	$\frac{3\sqrt{70}}{98}$	0	0	0	0
		0	0	0	$\frac{3\sqrt{70}}{196}$	0	0	0	0	0	0	0	$-\frac{3\sqrt{210}}{49}$	0	0
301	$\mathbb{Q}_{4,-2}^{(1,-1;a)}$	0	0	0	0	0	0	0	$-\frac{3\sqrt{14}}{28}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$\frac{3\sqrt{42}}{28}$	0	0	0	0	0
		0	0	0	0	0	0	$\frac{3\sqrt{3}}{14}$	0	0	0	0	0	0	0
		$-\frac{3\sqrt{42}}{196}$	0	0	0	0	0	0	$-\frac{33\sqrt{7}}{98}$	0	0	0	0	0	0
		0	$\frac{3\sqrt{210}}{196}$	0	0	0	0	0	0	$\frac{3\sqrt{21}}{98}$	0	0	0	0	0
		0	0	$-\frac{3\sqrt{35}}{98}$	0	0	0	0	0	0	0	$\frac{9\sqrt{105}}{98}$	0	0	0
302	$\mathbb{Q}_{4,-3}^{(1,-1;a)}$	0	0	0	0	0	0	$\frac{3\sqrt{7}}{28}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	$-\frac{3}{4}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{3\sqrt{14}}{14}$	0	0	0	0	0	0	0
		$-\frac{3\sqrt{3}}{28}$	0	0	0	0	0	0	$-\frac{3\sqrt{2}}{7}$	0	0	0	0	0	0
		0	$\frac{3\sqrt{5}}{28}$	0	0	0	0	0	0	$-\frac{9\sqrt{2}}{14}$	0	0	0	0	0
303	$\mathbb{Q}_{4,-4}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{3\sqrt{14}}{14}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{3\sqrt{7}}{7}$	0	0	0	0	0	0	0
		$-\frac{3\sqrt{2}}{14}$	0	0	0	0	0	0	$\frac{3\sqrt{3}}{7}$	0	0	0	0	0	0

continued ...

Table 7

No.	multipole	matrix
304	$\mathbb{Q}_{2,2}^{(1,0;a)}$	$\begin{pmatrix} 0 & 0 & 0 & 0 & -\frac{\sqrt{6}}{18} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{30}}{18} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & \frac{5\sqrt{2}}{42} & 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{6}}{42} & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & \frac{10\sqrt{3}}{63} & 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{30}}{42} & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & \frac{5\sqrt{15}}{63} & 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{10}}{14} & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{210}}{42} & 0 \end{pmatrix}$
305	$\mathbb{Q}_{2,1}^{(1,0;a)}$	$\begin{pmatrix} 0 & 0 & 0 & \frac{\sqrt{3}}{9} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & \frac{\sqrt{6}}{9} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & -\frac{5\sqrt{2}}{28} & 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{6}}{21} & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & -\frac{25\sqrt{6}}{252} & 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{2}}{7} & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & -\frac{5\sqrt{3}}{126} & 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{30}}{21} & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & \frac{5\sqrt{5}}{42} & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{30}}{21} & 0 \end{pmatrix}$
306	$\mathbb{Q}_{2,0}^{(1,0;a)}$	$\begin{pmatrix} 0 & 0 & -\frac{\sqrt{2}}{6} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & -\frac{\sqrt{2}}{6} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & \frac{5\sqrt{6}}{42} & 0 & 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{15}}{21} & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & \frac{5}{42} & 0 & 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{3}}{7} & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & -\frac{5}{42} & 0 & 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{3}}{7} & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & -\frac{5\sqrt{6}}{42} & 0 & 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{15}}{21} & 0 & 0 \end{pmatrix}$
307	$\mathbb{Q}_{2,-1}^{(1,0;a)}$	$\begin{pmatrix} 0 & \frac{\sqrt{6}}{9} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & \frac{\sqrt{3}}{9} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ -\frac{5\sqrt{5}}{42} & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{30}}{21} & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & \frac{5\sqrt{3}}{126} & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{30}}{21} & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & \frac{25\sqrt{6}}{252} & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{2}}{7} & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & \frac{5\sqrt{2}}{28} & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{6}}{21} & 0 & 0 & 0 \end{pmatrix}$

continued ...

Table 7

No.	multipole	matrix														
308	$Q_{2,-2}^{(1,0;a)}$	$-\frac{\sqrt{30}}{18}$	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	$-\frac{\sqrt{6}}{18}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{\sqrt{210}}{42}$	0	0	0	0	0	0	0	0
		$-\frac{5\sqrt{15}}{63}$	0	0	0	0	0	0	$\frac{\sqrt{10}}{14}$	0	0	0	0	0	0	0
		0	$-\frac{10\sqrt{3}}{63}$	0	0	0	0	0	0	$\frac{\sqrt{30}}{42}$	0	0	0	0	0	0
		0	0	$-\frac{5\sqrt{2}}{42}$	0	0	0	0	0	0	$\frac{\sqrt{6}}{42}$	0	0	0	0	0
309	$Q_{4,4}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{10}}{27}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	$-\frac{\sqrt{70}}{63}$	0	0	0	0	0	0	$-\frac{2\sqrt{105}}{945}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{5}}{135}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
310	$Q_{4,3}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{35}}{54}$	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{5}}{54}$	0	
		0	0	0	0	$\frac{5\sqrt{7}}{126}$	0	0	0	0	0	$\frac{\sqrt{70}}{315}$	0	0	0	
		0	0	0	0	0	$-\frac{\sqrt{105}}{126}$	0	0	0	0	0	$\frac{2\sqrt{70}}{945}$	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{10}}{135}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
311	$Q_{4,2}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{30}}{54}$	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{10}}{54}$	0	0	
		0	0	0	$-\frac{5}{63}$	0	0	0	0	0	$-\frac{\sqrt{3}}{63}$	0	0	0	0	0
		0	0	0	0	$\frac{5\sqrt{6}}{126}$	0	0	0	0	0	$-\frac{\sqrt{15}}{945}$	0	0	0	0
		0	0	0	0	0	$-\frac{\sqrt{30}}{126}$	0	0	0	0	0	0	$\frac{11\sqrt{5}}{945}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{105}}{945}$	0

continued ...

Table 7

No.	multipole	matrix													
312	$Q_{4,1}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	0	$\frac{5}{54}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{15}}{54}$	0	0
		0	0	$\frac{5\sqrt{2}}{126}$	0	0	0	0	0	0	$\frac{2\sqrt{6}}{189}$	0	0	0	0
		0	0	0	$-\frac{5\sqrt{6}}{126}$	0	0	0	0	0	0	$-\frac{\sqrt{2}}{189}$	0	0	0
		0	0	0	0	$\frac{5\sqrt{3}}{126}$	0	0	0	0	0	0	$-\frac{4\sqrt{30}}{945}$	0	0
		0	0	0	0	0	$-\frac{\sqrt{5}}{126}$	0	0	0	0	0	0	0	$\frac{\sqrt{30}}{315}$
313	$Q_{4,0}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{5}}{27}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{5}}{27}$	0	0	0
		0	$-\frac{\sqrt{5}}{63}$	0	0	0	0	0	0	$-\frac{\sqrt{2}}{63}$	0	0	0	0	0
		0	0	$\frac{\sqrt{30}}{63}$	0	0	0	0	0	0	$\frac{\sqrt{10}}{189}$	0	0	0	0
		0	0	0	$-\frac{\sqrt{30}}{63}$	0	0	0	0	0	0	$\frac{\sqrt{10}}{189}$	0	0	0
		0	0	0	0	$\frac{\sqrt{5}}{63}$	0	0	0	0	0	0	$-\frac{\sqrt{2}}{63}$	0	0
314	$Q_{4,-1}^{(1,0;a)}$	0	0	0	0	0	0	0	0	$\frac{\sqrt{15}}{54}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$-\frac{5}{54}$	0	0	0	0
		$\frac{\sqrt{5}}{126}$	0	0	0	0	0	0	$\frac{\sqrt{30}}{315}$	0	0	0	0	0	0
		0	$-\frac{5\sqrt{3}}{126}$	0	0	0	0	0	0	$-\frac{4\sqrt{30}}{945}$	0	0	0	0	0
		0	0	$\frac{5\sqrt{6}}{126}$	0	0	0	0	0	0	$-\frac{\sqrt{2}}{189}$	0	0	0	0
		0	0	0	$-\frac{5\sqrt{2}}{126}$	0	0	0	0	0	0	0	$\frac{2\sqrt{6}}{189}$	0	0
315	$Q_{4,-2}^{(1,0;a)}$	0	0	0	0	0	0	0	$-\frac{\sqrt{10}}{54}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$\frac{\sqrt{30}}{54}$	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{\sqrt{105}}{945}$	0	0	0	0	0	0	0
		$\frac{\sqrt{30}}{126}$	0	0	0	0	0	0	$\frac{11\sqrt{5}}{945}$	0	0	0	0	0	0
		0	$-\frac{5\sqrt{6}}{126}$	0	0	0	0	0	0	$-\frac{\sqrt{15}}{945}$	0	0	0	0	0
		0	0	$\frac{5}{63}$	0	0	0	0	0	0	0	$-\frac{\sqrt{3}}{63}$	0	0	0

continued ...

Table 7

No.	multipole	matrix
316	$\mathbb{Q}_{4,-3}^{(1,0;a)}$	$\begin{pmatrix} 0 & 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{5}}{54} & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{35}}{54} & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{10}}{135} & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ \frac{\sqrt{105}}{126} & 0 & 0 & 0 & 0 & 0 & 0 & \frac{2\sqrt{70}}{945} & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & -\frac{5\sqrt{7}}{126} & 0 & 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{70}}{315} & 0 & 0 & 0 & 0 & 0 \end{pmatrix}$
317	$\mathbb{Q}_{4,-4}^{(1,0;a)}$	$\begin{pmatrix} 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{10}}{27} & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & -\frac{2\sqrt{5}}{135} & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ \frac{\sqrt{70}}{63} & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{2\sqrt{105}}{945} & 0 & 0 & 0 & 0 & 0 & 0 \end{pmatrix}$
318	$\mathbb{Q}_{2,2}^{(1,1;a)}$	$\begin{pmatrix} 0 & 0 & 0 & 0 & -\frac{2\sqrt{21}}{21} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & -\frac{2\sqrt{105}}{21} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & -\frac{8\sqrt{7}}{49} & 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{21}}{98} & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & -\frac{16\sqrt{42}}{147} & 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{105}}{98} & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & -\frac{8\sqrt{210}}{147} & 0 & 0 & 0 & 0 & 0 & \frac{3\sqrt{35}}{98} & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{15}}{14} & 0 \end{pmatrix}$
319	$\mathbb{Q}_{2,1}^{(1,1;a)}$	$\begin{pmatrix} 0 & 0 & 0 & \frac{2\sqrt{42}}{21} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & \frac{4\sqrt{21}}{21} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & \frac{12\sqrt{7}}{49} & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{21}}{49} & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & \frac{20\sqrt{21}}{147} & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{3\sqrt{7}}{49} & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & \frac{4\sqrt{42}}{147} & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{105}}{49} & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & -\frac{4\sqrt{70}}{49} & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{105}}{49} & 0 \end{pmatrix}$

continued ...

Table 7

No.	multipole	matrix															
320	$\mathbb{Q}_{2,0}^{(1,1;a)}$	0	0	$-\frac{2\sqrt{7}}{7}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$-\frac{2\sqrt{7}}{7}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	$-\frac{8\sqrt{21}}{49}$	0	0	0	0	0	0	$\frac{\sqrt{210}}{98}$	0	0	0	0	0	0	0
		0	0	$-\frac{4\sqrt{14}}{49}$	0	0	0	0	0	0	$\frac{3\sqrt{42}}{98}$	0	0	0	0	0	0
		0	0	0	$\frac{4\sqrt{14}}{49}$	0	0	0	0	0	0	$\frac{3\sqrt{42}}{98}$	0	0	0	0	0
		0	0	0	0	$\frac{8\sqrt{21}}{49}$	0	0	0	0	0	0	0	$\frac{\sqrt{210}}{98}$	0	0	0
321	$\mathbb{Q}_{2,-1}^{(1,1;a)}$	0	$\frac{4\sqrt{21}}{21}$	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	$\frac{2\sqrt{42}}{21}$	0	0	0	0	0	0	0	0	0	0	0	0	
		$\frac{4\sqrt{70}}{49}$	0	0	0	0	0	0	$-\frac{\sqrt{105}}{49}$	0	0	0	0	0	0	0	
		0	$-\frac{4\sqrt{42}}{147}$	0	0	0	0	0	0	$-\frac{\sqrt{105}}{49}$	0	0	0	0	0	0	
		0	0	$-\frac{20\sqrt{21}}{147}$	0	0	0	0	0	0	$-\frac{3\sqrt{7}}{49}$	0	0	0	0	0	
		0	0	0	$-\frac{12\sqrt{7}}{49}$	0	0	0	0	0	0	0	$-\frac{\sqrt{21}}{49}$	0	0	0	
322	$\mathbb{Q}_{2,-2}^{(1,1;a)}$	$-\frac{2\sqrt{105}}{21}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	$-\frac{2\sqrt{21}}{21}$	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	$\frac{\sqrt{15}}{14}$	0	0	0	0	0	0	0	0	
		$\frac{8\sqrt{210}}{147}$	0	0	0	0	0	0	$\frac{3\sqrt{35}}{98}$	0	0	0	0	0	0	0	
		0	$\frac{16\sqrt{42}}{147}$	0	0	0	0	0	0	$\frac{\sqrt{105}}{98}$	0	0	0	0	0	0	
		0	0	$\frac{8\sqrt{7}}{49}$	0	0	0	0	0	0	$\frac{\sqrt{21}}{98}$	0	0	0	0	0	
323	$\mathbb{G}_{3,3}^{(a)}$	0	0	0	0	0	$-\frac{\sqrt{6}i}{7}$	0	0	0	0	0	0	$-\frac{3i}{28}$	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{3\sqrt{7}i}{28}$	0	
		0	0	0	0	$\frac{3\sqrt{5}i}{28}$	0	0	0	0	0	0	$-\frac{3\sqrt{2}i}{28}$	0	0	0	
		0	0	0	0	0	$\frac{5\sqrt{3}i}{28}$	0	0	0	0	0	0	$-\frac{3\sqrt{2}i}{14}$	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{3\sqrt{14}i}{28}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

continued ...

Table 7

No.	multipole	matrix
324	$\mathbb{G}_{3,2}^{(a)}$	$\begin{pmatrix} 0 & 0 & 0 & 0 & \frac{\sqrt{5}i}{7} & 0 & 0 & 0 & 0 & 0 & 0 & \frac{3\sqrt{2}i}{28} & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & -\frac{i}{7} & 0 & 0 & 0 & 0 & 0 & 0 & \frac{3\sqrt{6}i}{28} & 0 \\ 0 & 0 & 0 & -\frac{\sqrt{15}i}{14} & 0 & 0 & 0 & 0 & 0 & 0 & \frac{3\sqrt{5}i}{28} & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & -\frac{\sqrt{10}i}{28} & 0 & 0 & 0 & 0 & 0 & 0 & \frac{9i}{28} & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & \frac{5\sqrt{2}i}{28} & 0 & 0 & 0 & 0 & 0 & 0 & \frac{3\sqrt{3}i}{28} & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{3\sqrt{7}i}{28} \end{pmatrix}$
325	$\mathbb{G}_{3,1}^{(a)}$	$\begin{pmatrix} 0 & 0 & 0 & -\frac{2i}{7} & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{3\sqrt{3}i}{28} & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & \frac{\sqrt{2}i}{7} & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{3\sqrt{5}i}{28} & 0 & 0 \\ 0 & 0 & \frac{3\sqrt{6}i}{28} & 0 & 0 & 0 & 0 & 0 & -\frac{3\sqrt{2}i}{14} & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & -\frac{\sqrt{2}i}{28} & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{3\sqrt{6}i}{28} & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & -\frac{i}{4} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{15}i}{28} & 0 & 0 & 0 & 0 & 0 & 0 & \frac{3\sqrt{10}i}{28} & 0 \end{pmatrix}$
326	$\mathbb{G}_{3,0}^{(a)}$	$\begin{pmatrix} 0 & 0 & \frac{\sqrt{3}i}{7} & 0 & 0 & 0 & 0 & 0 & 0 & \frac{3i}{14} & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & -\frac{\sqrt{3}i}{7} & 0 & 0 & 0 & 0 & 0 & 0 & \frac{3i}{14} & 0 & 0 & 0 \\ 0 & -\frac{3i}{14} & 0 & 0 & 0 & 0 & 0 & 0 & \frac{3\sqrt{10}i}{28} & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & \frac{\sqrt{6}i}{14} & 0 & 0 & 0 & 0 & 0 & 0 & \frac{3\sqrt{2}i}{28} & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & \frac{\sqrt{6}i}{14} & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{3\sqrt{2}i}{28} & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & -\frac{3i}{14} & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{3\sqrt{10}i}{28} & 0 & 0 \end{pmatrix}$
327	$\mathbb{G}_{3,-1}^{(a)}$	$\begin{pmatrix} 0 & -\frac{\sqrt{2}i}{7} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{3\sqrt{5}i}{28} & 0 & 0 & 0 & 0 \\ 0 & 0 & \frac{2i}{7} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{3\sqrt{3}i}{28} & 0 & 0 & 0 \\ \frac{\sqrt{15}i}{28} & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{3\sqrt{10}i}{28} & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & -\frac{i}{4} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & -\frac{\sqrt{2}i}{28} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{3\sqrt{6}i}{28} & 0 & 0 & 0 \\ 0 & 0 & 0 & \frac{3\sqrt{6}i}{28} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{3\sqrt{2}i}{14} & 0 & 0 \end{pmatrix}$

continued ...

Table 7

No.	multipole	matrix																
328	$\mathbb{G}_{3,-2}^{(a)}$	$\frac{i}{7}$	0	0	0	0	0	0	0	$\frac{3\sqrt{6}i}{28}$	0	0	0	0	0	0		
		0	$-\frac{\sqrt{5}i}{7}$	0	0	0	0	0	0	0	$\frac{3\sqrt{2}i}{28}$	0	0	0	0	0	0	
		0	0	0	0	0	0	0	$\frac{3\sqrt{7}i}{28}$	0	0	0	0	0	0	0	0	
		$\frac{5\sqrt{2}i}{28}$	0	0	0	0	0	0	0	$-\frac{3\sqrt{3}i}{28}$	0	0	0	0	0	0	0	
		0	$-\frac{\sqrt{10}i}{28}$	0	0	0	0	0	0	0	$-\frac{9i}{28}$	0	0	0	0	0	0	0
		0	0	$-\frac{\sqrt{15}i}{14}$	0	0	0	0	0	0	0	$-\frac{3\sqrt{5}i}{28}$	0	0	0	0	0	0
329	$\mathbb{G}_{3,-3}^{(a)}$	0	0	0	0	0	0	0	$-\frac{3\sqrt{7}i}{28}$	0	0	0	0	0	0	0		
		$\frac{\sqrt{6}i}{7}$	0	0	0	0	0	0	0	$-\frac{3i}{28}$	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	$\frac{3\sqrt{14}i}{28}$	0	0	0	0	0	0	0	0	0
		$\frac{5\sqrt{3}i}{28}$	0	0	0	0	0	0	0	$\frac{3\sqrt{2}i}{14}$	0	0	0	0	0	0	0	0
		0	$\frac{3\sqrt{5}i}{28}$	0	0	0	0	0	0	0	$\frac{3\sqrt{2}i}{28}$	0	0	0	0	0	0	0
330	$\mathbb{G}_{3,3}^{(1,-1;a)}$	0	0	0	0	0	$\frac{\sqrt{10}i}{42}$	0	0	0	0	0	$\frac{\sqrt{15}i}{21}$	0	0	0		
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{105}i}{21}$	0	0	0	
		0	0	0	0	$-\frac{\sqrt{3}i}{21}$	0	0	0	0	0	0	$-\frac{\sqrt{30}i}{42}$	0	0	0	0	
		0	0	0	0	0	$-\frac{\sqrt{5}i}{21}$	0	0	0	0	0	0	$-\frac{\sqrt{30}i}{21}$	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{210}i}{42}$	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
331	$\mathbb{G}_{3,2}^{(1,-1;a)}$	0	0	0	0	$-\frac{5\sqrt{3}i}{126}$	0	0	0	0	0	$-\frac{\sqrt{30}i}{21}$	0	0	0	0		
		0	0	0	0	0	$\frac{\sqrt{15}i}{126}$	0	0	0	0	0	0	$-\frac{\sqrt{10}i}{7}$	0	0		
		0	0	0	$\frac{2i}{21}$	0	0	0	0	0	$\frac{5\sqrt{3}i}{42}$	0	0	0	0	0	0	
		0	0	0	0	$\frac{\sqrt{6}i}{63}$	0	0	0	0	0	$\frac{\sqrt{15}i}{14}$	0	0	0	0	0	
		0	0	0	0	0	$-\frac{\sqrt{30}i}{63}$	0	0	0	0	0	0	$\frac{\sqrt{5}i}{14}$	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{105}i}{42}$	0	0	

continued ...

Table 7

No.	multipole	matrix												
332	$\mathbb{G}_{3,1}^{(1,-1;a)}$	0	0	0	$\frac{\sqrt{15}i}{63}$	0	0	0	0	0	$\frac{\sqrt{5}i}{7}$	0	0	0
		0	0	0	0	$-\frac{\sqrt{30}i}{126}$	0	0	0	0	0	$\frac{5\sqrt{3}i}{21}$	0	0
		0	0	$-\frac{\sqrt{10}i}{35}$	0	0	0	0	0	$-\frac{\sqrt{30}i}{21}$	0	0	0	0
		0	0	0	$\frac{\sqrt{30}i}{315}$	0	0	0	0	0	$-\frac{\sqrt{10}i}{14}$	0	0	0
		0	0	0	0	$\frac{\sqrt{15}i}{45}$	0	0	0	0	0	0	0	0
		0	0	0	0	0	$-\frac{i}{21}$	0	0	0	0	0	0	$\frac{5\sqrt{6}i}{42}$
333	$\mathbb{G}_{3,0}^{(1,-1;a)}$	0	0	$-\frac{\sqrt{5}i}{42}$	0	0	0	0	0	$-\frac{2\sqrt{15}i}{21}$	0	0	0	0
		0	0	0	$\frac{\sqrt{5}i}{42}$	0	0	0	0	0	$-\frac{2\sqrt{15}i}{21}$	0	0	0
		0	$\frac{2\sqrt{15}i}{105}$	0	0	0	0	0	$\frac{5\sqrt{6}i}{42}$	0	0	0	0	0
		0	0	$-\frac{2\sqrt{10}i}{105}$	0	0	0	0	0	$\frac{\sqrt{30}i}{42}$	0	0	0	0
		0	0	0	$-\frac{2\sqrt{10}i}{105}$	0	0	0	0	0	$-\frac{\sqrt{30}i}{42}$	0	0	0
		0	0	0	0	$\frac{2\sqrt{15}i}{105}$	0	0	0	0	0	0	$-\frac{5\sqrt{6}i}{42}$	0
334	$\mathbb{G}_{3,-1}^{(1,-1;a)}$	0	$\frac{\sqrt{30}i}{126}$	0	0	0	0	0	$\frac{5\sqrt{3}i}{21}$	0	0	0	0	0
		0	0	$-\frac{\sqrt{15}i}{63}$	0	0	0	0	0	$\frac{\sqrt{5}i}{7}$	0	0	0	0
		$-\frac{i}{21}$	0	0	0	0	0	0	$-\frac{5\sqrt{6}i}{42}$	0	0	0	0	0
		0	$\frac{\sqrt{15}i}{45}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	$\frac{\sqrt{30}i}{315}$	0	0	0	0	0	$\frac{\sqrt{10}i}{14}$	0	0	0	0
		0	0	0	$-\frac{\sqrt{10}i}{35}$	0	0	0	0	0	0	$\frac{\sqrt{30}i}{21}$	0	0
335	$\mathbb{G}_{3,-2}^{(1,-1;a)}$	$-\frac{\sqrt{15}i}{126}$	0	0	0	0	0	0	$-\frac{\sqrt{10}i}{7}$	0	0	0	0	0
		0	$\frac{5\sqrt{3}i}{126}$	0	0	0	0	0	0	$-\frac{\sqrt{30}i}{21}$	0	0	0	0
		0	0	0	0	0	0	$\frac{\sqrt{105}i}{42}$	0	0	0	0	0	0
		$-\frac{\sqrt{30}i}{63}$	0	0	0	0	0	0	$-\frac{\sqrt{5}i}{14}$	0	0	0	0	0
		0	$\frac{\sqrt{6}i}{63}$	0	0	0	0	0	0	$-\frac{\sqrt{15}i}{14}$	0	0	0	0
		0	0	$\frac{2i}{21}$	0	0	0	0	0	0	$-\frac{5\sqrt{3}i}{42}$	0	0	0

continued ...

Table 7

No.	multipole	matrix
336	$\mathbb{G}_{3,-3}^{(1,-1;a)}$	$\begin{pmatrix} 0 & 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{105i}}{21} & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ -\frac{\sqrt{10i}}{42} & 0 & 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{15i}}{21} & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{210i}}{42} & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ -\frac{\sqrt{5i}}{21} & 0 & 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{30i}}{21} & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & -\frac{\sqrt{3i}}{21} & 0 & 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{30i}}{42} & 0 & 0 & 0 & 0 & 0 \end{pmatrix}$
337	$\mathbb{G}_{5,5}^{(1,-1;a)}$	$\begin{pmatrix} 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{2\sqrt{6i}}{27} & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \end{pmatrix}$
338	$\mathbb{G}_{5,4}^{(1,-1;a)}$	$\begin{pmatrix} 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{2\sqrt{105i}}{135} & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{2\sqrt{5i}}{45} & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \end{pmatrix}$
339	$\mathbb{G}_{5,3}^{(1,-1;a)}$	$\begin{pmatrix} 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{2\sqrt{70i}}{135} & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{2\sqrt{70i}}{135} & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{2\sqrt{10i}}{135} & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \end{pmatrix}$

continued ...

Table 7

No.	multipole	matrix													
340	$\mathbb{G}_{5,2}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{7}i}{27}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{35}i}{45}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{105}i}{135}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{5}i}{135}$
341	$\mathbb{G}_{5,1}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$\frac{2i}{27}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{3}i}{27}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{5}i}{45}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{5}i}{135}$	0
342	$\mathbb{G}_{5,0}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{2}i}{27}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{10}i}{27}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{10}i}{27}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{2}i}{27}$	0
343	$\mathbb{G}_{5,-1}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$\frac{2\sqrt{5}i}{135}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{5}i}{45}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{3}i}{27}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{2i}{27}$	0

continued ...

Table 7

No.	multipole	matrix
344	$\mathbb{G}_{5,-2}^{(1,-1;a)}$	0 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 $-\frac{\sqrt{5}i}{135}$ 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 $\frac{\sqrt{105}i}{135}$ 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 $-\frac{\sqrt{35}i}{45}$ 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 $\frac{\sqrt{7}i}{27}$ 0 0 0 0
345	$\mathbb{G}_{5,-3}^{(1,-1;a)}$	0 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 $-\frac{2\sqrt{10}i}{135}$ 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 $\frac{2\sqrt{70}i}{135}$ 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 $-\frac{2\sqrt{70}i}{135}$ 0 0 0 0 0
346	$\mathbb{G}_{5,-4}^{(1,-1;a)}$	0 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 $-\frac{2\sqrt{5}i}{45}$ 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 $\frac{2\sqrt{105}i}{135}$ 0 0 0 0 0 0
347	$\mathbb{G}_{5,-5}^{(1,-1;a)}$	0 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 $-\frac{2\sqrt{6}i}{27}$ 0 0 0 0 0 0 0

continued ...

Table 7

No.	multipole	matrix
348	$\mathbb{G}_{3,3}^{(1,0;a)}$	$0 \ 0 \ 0 \ 0 \ 0 \ -\frac{2\sqrt{2}i}{7} \ 0 \ 0 \ 0 \ 0 \ 0 \ 0 \ 0 \ \frac{5\sqrt{3}i}{28} \ 0$
		$0 \ 0 \ 0 \ 0 \ 0 \ 0 \ 0 \ 0 \ 0 \ 0 \ 0 \ 0 \ 0 \ 0 \ \frac{5\sqrt{21}i}{28}$
		$0 \ 0 \ 0 \ 0 \ \frac{5\sqrt{15}i}{28} \ 0 \ 0 \ 0 \ 0 \ 0 \ 0 \ \frac{\sqrt{6}i}{14} \ 0 \ 0$
		$0 \ 0 \ 0 \ 0 \ 0 \ \frac{25i}{28} \ 0 \ 0 \ 0 \ 0 \ 0 \ 0 \ 0 \ \frac{\sqrt{6}i}{7} \ 0$
		$0 \ 0 \ 0 \ 0 \ 0 \ 0 \ 0 \ 0 \ 0 \ 0 \ 0 \ 0 \ 0 \ 0 \ \frac{\sqrt{42}i}{14}$
		$0 \ 0 \ 0 \ 0 \ 0 \ 0 \ 0 \ 0 \ 0 \ 0 \ 0 \ 0 \ 0 \ 0 \ 0$
349	$\mathbb{G}_{3,2}^{(1,0;a)}$	$0 \ 0 \ 0 \ 0 \ \frac{2\sqrt{15}i}{21} \ 0 \ 0 \ 0 \ 0 \ 0 \ 0 \ -\frac{5\sqrt{6}i}{28} \ 0 \ 0$
		$0 \ 0 \ 0 \ 0 \ 0 \ -\frac{2\sqrt{3}i}{21} \ 0 \ 0 \ 0 \ 0 \ 0 \ 0 \ -\frac{15\sqrt{2}i}{28} \ 0$
		$0 \ 0 \ 0 \ -\frac{5\sqrt{5}i}{14} \ 0 \ 0 \ 0 \ 0 \ 0 \ 0 \ -\frac{\sqrt{15}i}{14} \ 0 \ 0 \ 0$
		$0 \ 0 \ 0 \ 0 \ -\frac{5\sqrt{30}i}{84} \ 0 \ 0 \ 0 \ 0 \ 0 \ 0 \ -\frac{3\sqrt{3}i}{14} \ 0 \ 0$
		$0 \ 0 \ 0 \ 0 \ 0 \ \frac{25\sqrt{6}i}{84} \ 0 \ 0 \ 0 \ 0 \ 0 \ 0 \ -\frac{3i}{14} \ 0$
		$0 \ 0 \ 0 \ 0 \ 0 \ 0 \ 0 \ 0 \ 0 \ 0 \ 0 \ 0 \ 0 \ \frac{\sqrt{21}i}{14}$
350	$\mathbb{G}_{3,1}^{(1,0;a)}$	$0 \ 0 \ 0 \ -\frac{4\sqrt{3}i}{21} \ 0 \ 0 \ 0 \ 0 \ 0 \ 0 \ 0 \ \frac{15i}{28} \ 0 \ 0 \ 0$
		$0 \ 0 \ 0 \ 0 \ \frac{2\sqrt{6}i}{21} \ 0 \ 0 \ 0 \ 0 \ 0 \ 0 \ 0 \ \frac{5\sqrt{15}i}{28} \ 0 \ 0$
		$0 \ 0 \ \frac{15\sqrt{2}i}{28} \ 0 \ 0 \ 0 \ 0 \ 0 \ 0 \ \frac{\sqrt{6}i}{7} \ 0 \ 0 \ 0 \ 0$
		$0 \ 0 \ 0 \ -\frac{5\sqrt{6}i}{84} \ 0 \ 0 \ 0 \ 0 \ 0 \ 0 \ 0 \ \frac{3\sqrt{2}i}{14} \ 0 \ 0 \ 0$
		$0 \ 0 \ 0 \ 0 \ -\frac{5\sqrt{3}i}{12} \ 0 \ 0 \ 0 \ 0 \ 0 \ 0 \ 0 \ 0 \ 0 \ 0$
		$0 \ 0 \ 0 \ 0 \ 0 \ \frac{5\sqrt{5}i}{28} \ 0 \ 0 \ 0 \ 0 \ 0 \ 0 \ 0 \ -\frac{\sqrt{30}i}{14} \ 0$
351	$\mathbb{G}_{3,0}^{(1,0;a)}$	$0 \ 0 \ \frac{2i}{7} \ 0 \ 0 \ 0 \ 0 \ 0 \ 0 \ 0 \ -\frac{5\sqrt{3}i}{14} \ 0 \ 0 \ 0 \ 0$
		$0 \ 0 \ 0 \ -\frac{2i}{7} \ 0 \ 0 \ 0 \ 0 \ 0 \ 0 \ 0 \ -\frac{5\sqrt{3}i}{14} \ 0 \ 0 \ 0$
		$0 \ -\frac{5\sqrt{3}i}{14} \ 0 \ 0 \ 0 \ 0 \ 0 \ 0 \ -\frac{\sqrt{30}i}{14} \ 0 \ 0 \ 0 \ 0 \ 0$
		$0 \ 0 \ \frac{5\sqrt{2}i}{14} \ 0 \ 0 \ 0 \ 0 \ 0 \ 0 \ 0 \ -\frac{\sqrt{6}i}{14} \ 0 \ 0 \ 0 \ 0$
		$0 \ 0 \ 0 \ \frac{5\sqrt{2}i}{14} \ 0 \ 0 \ 0 \ 0 \ 0 \ 0 \ 0 \ \frac{\sqrt{6}i}{14} \ 0 \ 0 \ 0$
		$0 \ 0 \ 0 \ 0 \ -\frac{5\sqrt{3}i}{14} \ 0 \ 0 \ 0 \ 0 \ 0 \ 0 \ 0 \ \frac{\sqrt{30}i}{14} \ 0 \ 0$

continued ...

Table 7

No.	multipole	matrix
352	$\mathbb{G}_{3,-1}^{(1,0;a)}$	$0 \quad -\frac{2\sqrt{6}i}{21} \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad \frac{5\sqrt{15}i}{28} \quad 0 \quad 0 \quad 0 \quad 0 \quad 0$
		$0 \quad 0 \quad \frac{4\sqrt{3}i}{21} \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad \frac{15i}{28} \quad 0 \quad 0 \quad 0 \quad 0$
		$\frac{5\sqrt{5}i}{28} \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad \frac{\sqrt{30}i}{14} \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0$
		$0 \quad -\frac{5\sqrt{3}i}{12} \quad 0 \quad 0$
		$0 \quad 0 \quad -\frac{5\sqrt{6}i}{84} \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad -\frac{3\sqrt{2}i}{14} \quad 0 \quad 0 \quad 0 \quad 0$
		$0 \quad 0 \quad 0 \quad \frac{15\sqrt{2}i}{28} \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad -\frac{\sqrt{6}i}{7} \quad 0 \quad 0 \quad 0$
353	$\mathbb{G}_{3,-2}^{(1,0;a)}$	$\frac{2\sqrt{3}i}{21} \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad -\frac{15\sqrt{2}i}{28} \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0$
		$0 \quad -\frac{2\sqrt{15}i}{21} \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad -\frac{5\sqrt{6}i}{28} \quad 0 \quad 0 \quad 0 \quad 0 \quad 0$
		$0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad -\frac{\sqrt{21}i}{14} \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0$
		$\frac{25\sqrt{6}i}{84} \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad \frac{3i}{14} \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0$
		$0 \quad -\frac{5\sqrt{30}i}{84} \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad \frac{3\sqrt{3}i}{14} \quad 0 \quad 0 \quad 0 \quad 0 \quad 0$
		$0 \quad 0 \quad -\frac{5\sqrt{5}i}{14} \quad 0 \quad \frac{\sqrt{15}i}{14} \quad 0 \quad 0 \quad 0$
354	$\mathbb{G}_{3,-3}^{(1,0;a)}$	$0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad \frac{5\sqrt{21}i}{28} \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0$
		$\frac{2\sqrt{2}i}{7} \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad \frac{5\sqrt{3}i}{28} \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0$
		$0 \quad 0 \quad 0$
		$0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad -\frac{\sqrt{42}i}{14} \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0$
		$\frac{25i}{28} \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad -\frac{\sqrt{6}i}{7} \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0$
		$0 \quad \frac{5\sqrt{15}i}{28} \quad 0 \quad -\frac{\sqrt{6}i}{14} \quad 0 \quad 0 \quad 0 \quad 0$
355	$\mathbb{G}_{1,1}^{(1,1;a)}$	$0 \quad 0 \quad 0$
		$0 \quad 0 \quad 0$
		$0 \quad 0 \quad \frac{\sqrt{10}i}{20} \quad 0 \quad 0$
		$0 \quad 0 \quad 0 \quad \frac{\sqrt{30}i}{20} \quad 0 \quad 0$
		$0 \quad 0 \quad 0 \quad 0 \quad \frac{\sqrt{15}i}{10} \quad 0 \quad 0$
		$0 \quad 0 \quad 0 \quad 0 \quad 0 \quad \frac{i}{2} \quad 0 \quad 0$

continued ...

Table 7

No.	multipole	matrix
356	$\mathbb{G}_{1,0}^{(1,1;a)}$	$\begin{pmatrix} 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & -\frac{\sqrt{10i}}{10} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & -\frac{\sqrt{15i}}{10} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & -\frac{\sqrt{15i}}{10} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & -\frac{\sqrt{10i}}{10} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \end{pmatrix}$
357	$\mathbb{G}_{1,-1}^{(1,1;a)}$	$\begin{pmatrix} 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ \frac{i}{2} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & \frac{\sqrt{15i}}{10} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & \frac{\sqrt{30i}}{20} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & \frac{\sqrt{10i}}{20} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \end{pmatrix}$
358	$\mathbb{G}_{3,3}^{(1,1;a)}$	$\begin{pmatrix} 0 & 0 & 0 & 0 & 0 & -\frac{4\sqrt{6i}}{63} & 0 & 0 & 0 & 0 & 0 & 0 & \frac{i}{126} & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{7i}}{126} & 0 \\ 0 & 0 & 0 & 0 & -\frac{\sqrt{5i}}{42} & 0 & 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{2i}}{189} & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & -\frac{5\sqrt{3i}}{126} & 0 & 0 & 0 & 0 & 0 & 0 & \frac{2\sqrt{2i}}{189} & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{14i}}{189} & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \end{pmatrix}$
359	$\mathbb{G}_{3,2}^{(1,1;a)}$	$\begin{pmatrix} 0 & 0 & 0 & 0 & \frac{4\sqrt{5i}}{63} & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{2i}}{126} & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & -\frac{4i}{63} & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{6i}}{126} & 0 & 0 \\ 0 & 0 & 0 & \frac{\sqrt{15i}}{63} & 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{5i}}{189} & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & \frac{\sqrt{10i}}{126} & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{i}{63} & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & -\frac{5\sqrt{2i}}{126} & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{3i}}{189} & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{7i}}{189} & 0 \end{pmatrix}$

continued ...

Table 7

No.	multipole	matrix													
360	$\mathbb{G}_{3,1}^{(1,1;a)}$	0	0	0	$-\frac{8i}{63}$	0	0	0	0	0	0	$\frac{\sqrt{3i}}{126}$	0	0	0
		0	0	0	0	$\frac{4\sqrt{2i}}{63}$	0	0	0	0	0	0	$\frac{\sqrt{5i}}{126}$	0	0
		0	0	$-\frac{\sqrt{6i}}{42}$	0	0	0	0	0	0	$\frac{2\sqrt{2i}}{189}$	0	0	0	0
		0	0	0	$\frac{\sqrt{2i}}{126}$	0	0	0	0	0	0	$\frac{\sqrt{6i}}{189}$	0	0	0
		0	0	0	0	$\frac{i}{18}$	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$-\frac{\sqrt{15i}}{126}$	0	0	0	0	0	0	0	$-\frac{\sqrt{10i}}{189}$
361	$\mathbb{G}_{3,0}^{(1,1;a)}$	0	0	$\frac{4\sqrt{3i}}{63}$	0	0	0	0	0	0	$-\frac{i}{63}$	0	0	0	0
		0	0	0	$-\frac{4\sqrt{3i}}{63}$	0	0	0	0	0	0	$-\frac{i}{63}$	0	0	0
		0	$\frac{i}{21}$	0	0	0	0	0	0	$-\frac{\sqrt{10i}}{189}$	0	0	0	0	0
		0	0	$-\frac{\sqrt{6i}}{63}$	0	0	0	0	0	0	$-\frac{\sqrt{2i}}{189}$	0	0	0	0
		0	0	0	$-\frac{\sqrt{6i}}{63}$	0	0	0	0	0	0	$\frac{\sqrt{2i}}{189}$	0	0	0
		0	0	0	0	$\frac{i}{21}$	0	0	0	0	0	0	0	$\frac{\sqrt{10i}}{189}$	0
362	$\mathbb{G}_{3,-1}^{(1,1;a)}$	0	$-\frac{4\sqrt{2i}}{63}$	0	0	0	0	0	0	$\frac{\sqrt{5i}}{126}$	0	0	0	0	0
		0	0	$\frac{8i}{63}$	0	0	0	0	0	0	$\frac{\sqrt{3i}}{126}$	0	0	0	0
		$-\frac{\sqrt{15i}}{126}$	0	0	0	0	0	0	$\frac{\sqrt{10i}}{189}$	0	0	0	0	0	0
		0	$\frac{i}{18}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$\frac{\sqrt{2i}}{126}$	0	0	0	0	0	0	$-\frac{\sqrt{6i}}{189}$	0	0	0	0
		0	0	0	$-\frac{\sqrt{6i}}{42}$	0	0	0	0	0	0	0	$-\frac{2\sqrt{2i}}{189}$	0	0
363	$\mathbb{G}_{3,-2}^{(1,1;a)}$	$\frac{4i}{63}$	0	0	0	0	0	0	$-\frac{\sqrt{6i}}{126}$	0	0	0	0	0	0
		0	$-\frac{4\sqrt{5i}}{63}$	0	0	0	0	0	0	$-\frac{\sqrt{2i}}{126}$	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{\sqrt{7i}}{189}$	0	0	0	0	0	0	0
		$-\frac{5\sqrt{2i}}{126}$	0	0	0	0	0	0	$\frac{\sqrt{3i}}{189}$	0	0	0	0	0	0
		0	$\frac{\sqrt{10i}}{126}$	0	0	0	0	0	0	$\frac{i}{63}$	0	0	0	0	0
		0	0	$\frac{\sqrt{15i}}{63}$	0	0	0	0	0	0	0	$\frac{\sqrt{5i}}{189}$	0	0	0

continued ...

Table 7

No.	multipole	matrix
364	$\mathbb{G}_{3,-3}^{(1,1;a)}$	$0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad \frac{\sqrt{7}i}{126} \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0$
		$\frac{4\sqrt{6}i}{63} \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad \frac{i}{126} \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0$
		$0 \quad 0 \quad 0$
		$0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad -\frac{\sqrt{14}i}{189} \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0$
		$-\frac{5\sqrt{3}i}{126} \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad -\frac{2\sqrt{2}i}{189} \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0$
		$0 \quad -\frac{\sqrt{5}i}{42} \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad -\frac{\sqrt{2}i}{189} \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0$
365	$\mathbb{T}_{2,2}^{(a)}$	$0 \quad 0 \quad 0 \quad 0 \quad \frac{i}{6} \quad 0 \quad 0$
		$0 \quad 0 \quad 0 \quad 0 \quad 0 \quad \frac{\sqrt{5}i}{6} \quad 0 \quad 0$
		$0 \quad 0 \quad 0 \quad -\frac{\sqrt{3}i}{21} \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad \frac{i}{14} \quad 0 \quad 0 \quad 0 \quad 0$
		$0 \quad 0 \quad 0 \quad 0 \quad -\frac{2\sqrt{2}i}{21} \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad \frac{\sqrt{5}i}{14} \quad 0 \quad 0 \quad 0$
		$0 \quad 0 \quad 0 \quad 0 \quad 0 \quad -\frac{\sqrt{10}i}{21} \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad \frac{\sqrt{15}i}{14} \quad 0$
		$0 \quad 0 \quad \frac{\sqrt{35}i}{14} \quad 0$
366	$\mathbb{T}_{2,1}^{(a)}$	$0 \quad 0 \quad 0 \quad -\frac{\sqrt{2}i}{6} \quad 0 \quad 0$
		$0 \quad 0 \quad 0 \quad 0 \quad -\frac{i}{3} \quad 0 \quad 0$
		$0 \quad 0 \quad \frac{\sqrt{3}i}{14} \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad -\frac{i}{7} \quad 0 \quad 0 \quad 0 \quad 0 \quad 0$
		$0 \quad 0 \quad 0 \quad \frac{5i}{42} \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad -\frac{\sqrt{3}i}{7} \quad 0 \quad 0 \quad 0 \quad 0$
		$0 \quad 0 \quad 0 \quad 0 \quad \frac{\sqrt{2}i}{42} \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad -\frac{\sqrt{5}i}{7} \quad 0 \quad 0 \quad 0$
		$0 \quad 0 \quad 0 \quad 0 \quad 0 \quad -\frac{\sqrt{30}i}{42} \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad -\frac{\sqrt{5}i}{7} \quad 0$
367	$\mathbb{T}_{2,0}^{(a)}$	$0 \quad 0 \quad \frac{\sqrt{3}i}{6} \quad 0 \quad 0$
		$0 \quad 0 \quad 0 \quad \frac{\sqrt{3}i}{6} \quad 0 \quad 0$
		$0 \quad -\frac{i}{7} \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad \frac{\sqrt{10}i}{14} \quad 0 \quad 0 \quad 0 \quad 0 \quad 0$
		$0 \quad 0 \quad -\frac{\sqrt{6}i}{42} \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad \frac{3\sqrt{2}i}{14} \quad 0 \quad 0 \quad 0 \quad 0$
		$0 \quad 0 \quad 0 \quad \frac{\sqrt{6}i}{42} \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad \frac{3\sqrt{2}i}{14} \quad 0 \quad 0 \quad 0$
		$0 \quad 0 \quad 0 \quad 0 \quad \frac{i}{7} \quad 0 \quad \frac{\sqrt{10}i}{14} \quad 0 \quad 0$

continued ...

Table 7

No.	multipole	matrix
372	$\mathbb{T}_{4,2}^{(a)}$	$\begin{pmatrix} 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{6}i}{27} & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{2}i}{27} & 0 \\ 0 & 0 & 0 & \frac{2\sqrt{5}i}{63} & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{15}i}{63} & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & -\frac{\sqrt{30}i}{63} & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{3}i}{189} & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{6}i}{63} & 0 & 0 & 0 & 0 & 0 & 0 & \frac{11i}{189} & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{21}i}{189} \end{pmatrix}$
373	$\mathbb{T}_{4,1}^{(a)}$	$\begin{pmatrix} 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{5}i}{27} & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{3}i}{27} & 0 & 0 \\ 0 & 0 & -\frac{\sqrt{10}i}{63} & 0 & 0 & 0 & 0 & 0 & 0 & \frac{2\sqrt{30}i}{189} & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & \frac{\sqrt{30}i}{63} & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{10}i}{189} & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & -\frac{\sqrt{15}i}{63} & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{4\sqrt{6}i}{189} & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & \frac{i}{63} & 0 & 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{6}i}{63} & 0 \end{pmatrix}$
374	$\mathbb{T}_{4,0}^{(a)}$	$\begin{pmatrix} 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{2i}{27} & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{2i}{27} & 0 & 0 & 0 \\ 0 & \frac{2i}{63} & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{10}i}{63} & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & -\frac{2\sqrt{6}i}{63} & 0 & 0 & 0 & 0 & 0 & 0 & \frac{5\sqrt{2}i}{189} & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & \frac{2\sqrt{6}i}{63} & 0 & 0 & 0 & 0 & 0 & 0 & \frac{5\sqrt{2}i}{189} & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & -\frac{2i}{63} & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{10}i}{63} & 0 & 0 \end{pmatrix}$
375	$\mathbb{T}_{4,-1}^{(a)}$	$\begin{pmatrix} 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{3}i}{27} & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{5}i}{27} & 0 & 0 & 0 & 0 \\ -\frac{i}{63} & 0 & 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{6}i}{63} & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & \frac{\sqrt{15}i}{63} & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{4\sqrt{6}i}{189} & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & -\frac{\sqrt{30}i}{63} & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{10}i}{189} & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & \frac{\sqrt{10}i}{63} & 0 & 0 & 0 & 0 & 0 & 0 & \frac{2\sqrt{30}i}{189} & 0 & 0 & 0 \end{pmatrix}$

continued ...

Table 7

No.	multipole	matrix														
376	$\mathbb{T}_{4,-2}^{(a)}$	0	0	0	0	0	0	0	$-\frac{\sqrt{2}i}{27}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$\frac{\sqrt{6}i}{27}$	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{\sqrt{21}i}{189}$	0	0	0	0	0	0	0	0
		$-\frac{\sqrt{6}i}{63}$	0	0	0	0	0	0	$\frac{11i}{189}$	0	0	0	0	0	0	0
		0	$\frac{\sqrt{30}i}{63}$	0	0	0	0	0	0	$-\frac{\sqrt{3}i}{189}$	0	0	0	0	0	0
		0	0	$-\frac{2\sqrt{5}i}{63}$	0	0	0	0	0	0	0	$-\frac{\sqrt{15}i}{63}$	0	0	0	0
377	$\mathbb{T}_{4,-3}^{(a)}$	0	0	0	0	0	0	$\frac{i}{27}$	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	$-\frac{\sqrt{7}i}{27}$	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	$-\frac{\sqrt{2}i}{27}$	0	0	0	0	0	0	0	
		$-\frac{\sqrt{21}i}{63}$	0	0	0	0	0	0	$\frac{2\sqrt{14}i}{189}$	0	0	0	0	0	0	
		0	$\frac{\sqrt{35}i}{63}$	0	0	0	0	0	0	$\frac{\sqrt{14}i}{63}$	0	0	0	0	0	
378	$\mathbb{T}_{4,-4}^{(a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	$\frac{2\sqrt{2}i}{27}$	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	$-\frac{2i}{27}$	0	0	0	0	0	0	0	
		$-\frac{2\sqrt{14}i}{63}$	0	0	0	0	0	0	$-\frac{2\sqrt{21}i}{189}$	0	0	0	0	0	0	
379	$\mathbb{T}_{4,4}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{3\sqrt{14}i}{28}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	$\frac{3\sqrt{2}i}{28}$	0	0	0	0	0	$\frac{3\sqrt{3}i}{14}$	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{3\sqrt{7}i}{14}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	

continued ...

Table 7

No.	multipole	matrix													
380	$\mathbb{T}_{4,3}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	$\frac{3i}{8}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{3\sqrt{7}i}{56}$	0
		0	0	0	0	$-\frac{3\sqrt{5}i}{56}$	0	0	0	0	0	0	$-\frac{9\sqrt{2}i}{28}$	0	0
		0	0	0	0	0	$\frac{3\sqrt{3}i}{56}$	0	0	0	0	0	0	$-\frac{3\sqrt{2}i}{14}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{3\sqrt{14}i}{28}$
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
381	$\mathbb{T}_{4,2}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	$-\frac{3\sqrt{42}i}{56}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{3\sqrt{14}i}{56}$	0
		0	0	0	$\frac{3\sqrt{35}i}{196}$	0	0	0	0	0	$\frac{9\sqrt{105}i}{196}$	0	0	0	0
		0	0	0	0	$-\frac{3\sqrt{210}i}{392}$	0	0	0	0	0	0	$\frac{3\sqrt{21}i}{196}$	0	0
		0	0	0	0	0	$\frac{3\sqrt{42}i}{392}$	0	0	0	0	0	0	$-\frac{33\sqrt{7}i}{196}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{3\sqrt{3}i}{28}$
382	$\mathbb{T}_{4,1}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	$\frac{3\sqrt{35}i}{56}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	$-\frac{3\sqrt{21}i}{56}$	0	0
		0	0	$-\frac{3\sqrt{70}i}{392}$	0	0	0	0	0	0	$-\frac{3\sqrt{210}i}{98}$	0	0	0	0
		0	0	0	$\frac{3\sqrt{210}i}{392}$	0	0	0	0	0	0	$\frac{3\sqrt{70}i}{196}$	0	0	0
		0	0	0	0	$-\frac{3\sqrt{105}i}{392}$	0	0	0	0	0	0	$\frac{3\sqrt{42}i}{49}$	0	0
		0	0	0	0	0	$\frac{3\sqrt{7}i}{392}$	0	0	0	0	0	0	$-\frac{9\sqrt{42}i}{196}$	0
383	$\mathbb{T}_{4,0}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	$-\frac{3\sqrt{7}i}{28}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$\frac{3\sqrt{7}i}{28}$	0	0	0
		0	$\frac{3\sqrt{7}i}{196}$	0	0	0	0	0	0	$\frac{9\sqrt{70}i}{196}$	0	0	0	0	0
		0	0	$-\frac{3\sqrt{42}i}{196}$	0	0	0	0	0	0	$-\frac{15\sqrt{14}i}{196}$	0	0	0	0
		0	0	0	$\frac{3\sqrt{42}i}{196}$	0	0	0	0	0	0	$-\frac{15\sqrt{14}i}{196}$	0	0	0
		0	0	0	0	$-\frac{3\sqrt{7}i}{196}$	0	0	0	0	0	0	0	$\frac{9\sqrt{70}i}{196}$	0

continued ...

Table 7

No.	multipole	matrix													
384	$\mathbb{T}_{4,-1}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	$\frac{3\sqrt{21}i}{56}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$-\frac{3\sqrt{35}i}{56}$	0	0	0	0
		$-\frac{3\sqrt{7}i}{392}$	0	0	0	0	0	0	$-\frac{9\sqrt{42}i}{196}$	0	0	0	0	0	0
		0	$\frac{3\sqrt{105}i}{392}$	0	0	0	0	0	0	$\frac{3\sqrt{42}i}{49}$	0	0	0	0	0
		0	0	$-\frac{3\sqrt{210}i}{392}$	0	0	0	0	0	0	$\frac{3\sqrt{70}i}{196}$	0	0	0	0
		0	0	0	$\frac{3\sqrt{70}i}{392}$	0	0	0	0	0	0	0	$-\frac{3\sqrt{210}i}{98}$	0	0
385	$\mathbb{T}_{4,-2}^{(1,-1;a)}$	0	0	0	0	0	0	0	$-\frac{3\sqrt{14}i}{56}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$\frac{3\sqrt{42}i}{56}$	0	0	0	0	0
		0	0	0	0	0	0	$\frac{3\sqrt{3}i}{28}$	0	0	0	0	0	0	0
		$-\frac{3\sqrt{42}i}{392}$	0	0	0	0	0	0	$-\frac{33\sqrt{7}i}{196}$	0	0	0	0	0	0
		0	$\frac{3\sqrt{210}i}{392}$	0	0	0	0	0	0	$\frac{3\sqrt{21}i}{196}$	0	0	0	0	0
		0	0	$-\frac{3\sqrt{35}i}{196}$	0	0	0	0	0	0	0	$\frac{9\sqrt{105}i}{196}$	0	0	0
386	$\mathbb{T}_{4,-3}^{(1,-1;a)}$	0	0	0	0	0	0	$\frac{3\sqrt{7}i}{56}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	$-\frac{3i}{8}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{3\sqrt{14}i}{28}$	0	0	0	0	0	0	0
		$-\frac{3\sqrt{3}i}{56}$	0	0	0	0	0	0	$-\frac{3\sqrt{2}i}{14}$	0	0	0	0	0	0
		0	$\frac{3\sqrt{5}i}{56}$	0	0	0	0	0	0	0	$-\frac{9\sqrt{2}i}{28}$	0	0	0	0
387	$\mathbb{T}_{4,-4}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{3\sqrt{14}i}{28}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{3\sqrt{7}i}{14}$	0	0	0	0	0	0	0
		$-\frac{3\sqrt{2}i}{28}$	0	0	0	0	0	0	$\frac{3\sqrt{3}i}{14}$	0	0	0	0	0	0

continued ...

Table 7

No.	multipole	matrix												
388	$T_{2,2}^{(1,0;a)}$	0	0	0	0	$\frac{\sqrt{6}i}{15}$	0	0	0	0	0	0	0	0
		0	0	0	0	0	$\frac{\sqrt{30}i}{15}$	0	0	0	0	0	0	0
		0	0	0	$-\frac{\sqrt{2}i}{7}$	0	0	0	0	0	$-\frac{\sqrt{6}i}{35}$	0	0	0
		0	0	0	0	$-\frac{4\sqrt{3}i}{21}$	0	0	0	0	0	$-\frac{\sqrt{30}i}{35}$	0	0
		0	0	0	0	0	$-\frac{2\sqrt{15}i}{21}$	0	0	0	0	0	$-\frac{3\sqrt{10}i}{35}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{210}i}{35}$
389	$T_{2,1}^{(1,0;a)}$	0	0	0	$-\frac{2\sqrt{3}i}{15}$	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{2\sqrt{6}i}{15}$	0	0	0	0	0	0	0	0
		0	0	$\frac{3\sqrt{2}i}{14}$	0	0	0	0	0	$\frac{2\sqrt{6}i}{35}$	0	0	0	0
		0	0	0	$\frac{5\sqrt{6}i}{42}$	0	0	0	0	0	$\frac{6\sqrt{2}i}{35}$	0	0	0
		0	0	0	0	$\frac{\sqrt{3}i}{21}$	0	0	0	0	0	$\frac{2\sqrt{30}i}{35}$	0	0
		0	0	0	0	0	$-\frac{\sqrt{5}i}{7}$	0	0	0	0	0	0	$\frac{2\sqrt{30}i}{35}$
390	$T_{2,0}^{(1,0;a)}$	0	0	$\frac{\sqrt{2}i}{5}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	$\frac{\sqrt{2}i}{5}$	0	0	0	0	0	0	0	0	0
		0	$-\frac{\sqrt{6}i}{7}$	0	0	0	0	0	0	$-\frac{2\sqrt{15}i}{35}$	0	0	0	0
		0	0	$-\frac{i}{7}$	0	0	0	0	0	0	$-\frac{6\sqrt{3}i}{35}$	0	0	0
		0	0	0	$\frac{i}{7}$	0	0	0	0	0	0	$-\frac{6\sqrt{3}i}{35}$	0	0
		0	0	0	0	$\frac{\sqrt{6}i}{7}$	0	0	0	0	0	0	$-\frac{2\sqrt{15}i}{35}$	0
391	$T_{2,-1}^{(1,0;a)}$	0	$-\frac{2\sqrt{6}i}{15}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	$-\frac{2\sqrt{3}i}{15}$	0	0	0	0	0	0	0	0	0	0
		$\frac{\sqrt{5}i}{7}$	0	0	0	0	0	0	$\frac{2\sqrt{30}i}{35}$	0	0	0	0	0
		0	$-\frac{\sqrt{3}i}{21}$	0	0	0	0	0	0	$\frac{2\sqrt{30}i}{35}$	0	0	0	0
		0	0	$-\frac{5\sqrt{6}i}{42}$	0	0	0	0	0	0	$\frac{6\sqrt{2}i}{35}$	0	0	0
		0	0	0	$-\frac{3\sqrt{2}i}{14}$	0	0	0	0	0	0	$\frac{2\sqrt{6}i}{35}$	0	0

continued ...

Table 7

No.	multipole	matrix													
392	$\mathbb{T}_{2,-2}^{(1,0;a)}$	$\frac{\sqrt{30i}}{15}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	$\frac{\sqrt{6i}}{15}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{\sqrt{210i}}{35}$	0	0	0	0	0	0	0
		$\frac{2\sqrt{15i}}{21}$	0	0	0	0	0	0	$-\frac{3\sqrt{10i}}{35}$	0	0	0	0	0	0
		0	$\frac{4\sqrt{3i}}{21}$	0	0	0	0	0	0	$-\frac{\sqrt{30i}}{35}$	0	0	0	0	0
		0	0	$\frac{\sqrt{2i}}{7}$	0	0	0	0	0	0	0	$-\frac{\sqrt{6i}}{35}$	0	0	0
393	$\mathbb{T}_{4,4}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{10i}}{9}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	$\frac{\sqrt{70i}}{21}$	0	0	0	0	0	$\frac{2\sqrt{105i}}{315}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{5i}}{45}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
394	$\mathbb{T}_{4,3}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{35i}}{18}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{5i}}{18}$	
		0	0	0	0	$-\frac{5\sqrt{7i}}{42}$	0	0	0	0	0	$-\frac{\sqrt{70i}}{105}$	0	0	
		0	0	0	0	0	$\frac{\sqrt{105i}}{42}$	0	0	0	0	0	$-\frac{2\sqrt{70i}}{315}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{10i}}{45}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
395	$\mathbb{T}_{4,2}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{30i}}{18}$	0	0	
		0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{10i}}{18}$	0	
		0	0	0	$\frac{5i}{21}$	0	0	0	0	0	$\frac{\sqrt{3i}}{21}$	0	0	0	
		0	0	0	0	$-\frac{5\sqrt{6i}}{42}$	0	0	0	0	0	$\frac{\sqrt{15i}}{315}$	0	0	
		0	0	0	0	0	$\frac{\sqrt{30i}}{42}$	0	0	0	0	0	$-\frac{11\sqrt{5i}}{315}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{105i}}{315}$	

continued ...

Table 7

No.	multipole	matrix
396	$\mathbb{T}_{4,1}^{(1,0;a)}$	$\begin{pmatrix} 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{5i}{18} & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{15}i}{18} & 0 & 0 \\ 0 & 0 & -\frac{5\sqrt{2}i}{42} & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{2\sqrt{6}i}{63} & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & \frac{5\sqrt{6}i}{42} & 0 & 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{2}i}{63} & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & -\frac{5\sqrt{3}i}{42} & 0 & 0 & 0 & 0 & 0 & 0 & \frac{4\sqrt{30}i}{315} & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{5}i}{42} & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{30}i}{105} & 0 \end{pmatrix}$
397	$\mathbb{T}_{4,0}^{(1,0;a)}$	$\begin{pmatrix} 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{5}i}{9} & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{5}i}{9} & 0 & 0 & 0 \\ 0 & \frac{\sqrt{5}i}{21} & 0 & 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{2}i}{21} & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & -\frac{\sqrt{30}i}{21} & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{10}i}{63} & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & \frac{\sqrt{30}i}{21} & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{10}i}{63} & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & -\frac{\sqrt{5}i}{21} & 0 & 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{2}i}{21} & 0 & 0 \end{pmatrix}$
398	$\mathbb{T}_{4,-1}^{(1,0;a)}$	$\begin{pmatrix} 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{15}i}{18} & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{5i}{18} & 0 & 0 & 0 & 0 \\ -\frac{\sqrt{5}i}{42} & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{30}i}{105} & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & \frac{5\sqrt{3}i}{42} & 0 & 0 & 0 & 0 & 0 & 0 & \frac{4\sqrt{30}i}{315} & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & -\frac{5\sqrt{6}i}{42} & 0 & 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{2}i}{63} & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & \frac{5\sqrt{2}i}{42} & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{2\sqrt{6}i}{63} & 0 & 0 & 0 \end{pmatrix}$
399	$\mathbb{T}_{4,-2}^{(1,0;a)}$	$\begin{pmatrix} 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{10}i}{18} & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{30}i}{18} & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{105}i}{315} & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ -\frac{\sqrt{30}i}{42} & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{11\sqrt{5}i}{315} & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & \frac{5\sqrt{6}i}{42} & 0 & 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{15}i}{315} & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & -\frac{5i}{21} & 0 & 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{3}i}{21} & 0 & 0 & 0 & 0 \end{pmatrix}$

continued ...

Table 7

No.	multipole	matrix
400	$T_{4,-3}^{(1,0;a)}$	$\begin{matrix} 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{5}i}{18} & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{35}i}{18} & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{10}i}{45} & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ -\frac{\sqrt{105}i}{42} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{2\sqrt{70}i}{315} & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & \frac{5\sqrt{7}i}{42} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{70}i}{105} & 0 & 0 & 0 & 0 & 0 \end{matrix}$
401	$T_{4,-4}^{(1,0;a)}$	$\begin{matrix} 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{10}i}{9} & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{2\sqrt{5}i}{45} & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ -\frac{\sqrt{70}i}{21} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{2\sqrt{105}i}{315} & 0 & 0 & 0 & 0 & 0 & 0 \end{matrix}$
402	$T_{2,2}^{(1,1;a)}$	$\begin{matrix} 0 & 0 & 0 & 0 & -\frac{\sqrt{21}i}{21} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{105}i}{21} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & -\frac{4\sqrt{7}i}{49} & 0 & 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{21}i}{196} & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & -\frac{8\sqrt{42}i}{147} & 0 & 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{105}i}{196} & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & -\frac{4\sqrt{210}i}{147} & 0 & 0 & 0 & 0 & 0 & 0 & \frac{3\sqrt{35}i}{196} & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{15}i}{28} & 0 \end{matrix}$
403	$T_{2,1}^{(1,1;a)}$	$\begin{matrix} 0 & 0 & 0 & \frac{\sqrt{42}i}{21} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & \frac{2\sqrt{21}i}{21} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & \frac{6\sqrt{7}i}{49} & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{21}i}{98} & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & \frac{10\sqrt{21}i}{147} & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{3\sqrt{7}i}{98} & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & \frac{2\sqrt{42}i}{147} & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{105}i}{98} & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & -\frac{2\sqrt{70}i}{49} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{105}i}{98} & 0 \end{matrix}$

continued ...

Table 7

No.	multipole	matrix																		
404	$T_{2,0}^{(1,1;a)}$	0	0	$-\frac{\sqrt{7}i}{7}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$-\frac{\sqrt{7}i}{7}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	$-\frac{4\sqrt{21}i}{49}$	0	0	0	0	0	0	0	$\frac{\sqrt{210}i}{196}$	0	0	0	0	0	0	0	0	0
		0	0	$-\frac{2\sqrt{14}i}{49}$	0	0	0	0	0	0	0	$\frac{3\sqrt{42}i}{196}$	0	0	0	0	0	0	0	0
		0	0	0	$\frac{2\sqrt{14}i}{49}$	0	0	0	0	0	0	0	$\frac{3\sqrt{42}i}{196}$	0	0	0	0	0	0	0
		0	0	0	0	$\frac{4\sqrt{21}i}{49}$	0	0	0	0	0	0	0	$\frac{\sqrt{210}i}{196}$	0	0	0	0	0	0
405	$T_{2,-1}^{(1,1;a)}$	0	$\frac{2\sqrt{21}i}{21}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	$\frac{\sqrt{42}i}{21}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		$\frac{2\sqrt{70}i}{49}$	0	0	0	0	0	0	$-\frac{\sqrt{105}i}{98}$	0	0	0	0	0	0	0	0	0	0	
		0	$-\frac{2\sqrt{42}i}{147}$	0	0	0	0	0	0	$-\frac{\sqrt{105}i}{98}$	0	0	0	0	0	0	0	0	0	
		0	0	$-\frac{10\sqrt{21}i}{147}$	0	0	0	0	0	0	$-\frac{3\sqrt{7}i}{98}$	0	0	0	0	0	0	0	0	
		0	0	0	$-\frac{6\sqrt{7}i}{49}$	0	0	0	0	0	0	0	$-\frac{\sqrt{21}i}{98}$	0	0	0	0	0	0	
406	$T_{2,-2}^{(1,1;a)}$	$-\frac{\sqrt{105}i}{21}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	$-\frac{\sqrt{21}i}{21}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	$\frac{\sqrt{15}i}{28}$	0	0	0	0	0	0	0	0	0	0	0	
		$\frac{4\sqrt{210}i}{147}$	0	0	0	0	0	0	$\frac{3\sqrt{35}i}{196}$	0	0	0	0	0	0	0	0	0	0	
		0	$\frac{8\sqrt{42}i}{147}$	0	0	0	0	0	0	$\frac{\sqrt{105}i}{196}$	0	0	0	0	0	0	0	0	0	
		0	0	$\frac{4\sqrt{7}i}{49}$	0	0	0	0	0	0	0	$\frac{\sqrt{21}i}{196}$	0	0	0	0	0	0	0	
407	$M_{3,3}^{(a)}$	0	0	0	0	0	$-\frac{2\sqrt{6}}{7}$	0	0	0	0	0	0	$-\frac{3}{14}$	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{3\sqrt{7}}{14}$	0	0	0	0	
		0	0	0	0	$\frac{3\sqrt{5}}{14}$	0	0	0	0	0	0	$-\frac{3\sqrt{2}}{14}$	0	0	0	0	0	0	
		0	0	0	0	0	$\frac{5\sqrt{3}}{14}$	0	0	0	0	0	0	$-\frac{3\sqrt{2}}{7}$	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{3\sqrt{14}}{14}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 7

No.	multipole	matrix
408	$M_{3,2}^{(a)}$	$\begin{pmatrix} 0 & 0 & 0 & 0 & \frac{2\sqrt{5}}{7} & 0 & 0 & 0 & 0 & 0 & 0 & \frac{3\sqrt{2}}{14} & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & -\frac{2}{7} & 0 & 0 & 0 & 0 & 0 & 0 & \frac{3\sqrt{6}}{14} & 0 \\ 0 & 0 & 0 & -\frac{\sqrt{15}}{7} & 0 & 0 & 0 & 0 & 0 & 0 & \frac{3\sqrt{5}}{14} & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & -\frac{\sqrt{10}}{14} & 0 & 0 & 0 & 0 & 0 & 0 & \frac{9}{14} & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & \frac{5\sqrt{2}}{14} & 0 & 0 & 0 & 0 & 0 & 0 & \frac{3\sqrt{3}}{14} & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{3\sqrt{7}}{14} \end{pmatrix}$
409	$M_{3,1}^{(a)}$	$\begin{pmatrix} 0 & 0 & 0 & -\frac{4}{7} & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{3\sqrt{3}}{14} & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & \frac{2\sqrt{2}}{7} & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{3\sqrt{5}}{14} & 0 & 0 \\ 0 & 0 & \frac{3\sqrt{6}}{14} & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{3\sqrt{2}}{7} & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & -\frac{\sqrt{2}}{14} & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{3\sqrt{6}}{14} & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & -\frac{1}{2} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{15}}{14} & 0 & 0 & 0 & 0 & 0 & 0 & \frac{3\sqrt{10}}{14} & 0 \end{pmatrix}$
410	$M_{3,0}^{(a)}$	$\begin{pmatrix} 0 & 0 & \frac{2\sqrt{3}}{7} & 0 & 0 & 0 & 0 & 0 & 0 & \frac{3}{7} & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & -\frac{2\sqrt{3}}{7} & 0 & 0 & 0 & 0 & 0 & 0 & \frac{3}{7} & 0 & 0 & 0 \\ 0 & -\frac{3}{7} & 0 & 0 & 0 & 0 & 0 & 0 & \frac{3\sqrt{10}}{14} & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & \frac{\sqrt{6}}{7} & 0 & 0 & 0 & 0 & 0 & 0 & \frac{3\sqrt{2}}{14} & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & \frac{\sqrt{6}}{7} & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{3\sqrt{2}}{14} & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & -\frac{3}{7} & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{3\sqrt{10}}{14} & 0 & 0 \end{pmatrix}$
411	$M_{3,-1}^{(a)}$	$\begin{pmatrix} 0 & -\frac{2\sqrt{2}}{7} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{3\sqrt{5}}{14} & 0 & 0 & 0 & 0 \\ 0 & 0 & \frac{4}{7} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{3\sqrt{3}}{14} & 0 & 0 & 0 \\ \frac{\sqrt{15}}{14} & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{3\sqrt{10}}{14} & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & -\frac{1}{2} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & -\frac{\sqrt{2}}{14} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{3\sqrt{6}}{14} & 0 & 0 & 0 \\ 0 & 0 & 0 & \frac{3\sqrt{6}}{14} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{3\sqrt{2}}{7} & 0 & 0 \end{pmatrix}$

continued ...

Table 7

No.	multipole	matrix													
412	$M_{3,-2}^{(a)}$	$\frac{2}{7}$	0	0	0	0	0	0	$\frac{3\sqrt{6}}{14}$	0	0	0	0	0	0
		0	$-\frac{2\sqrt{5}}{7}$	0	0	0	0	0	0	$\frac{3\sqrt{2}}{14}$	0	0	0	0	0
		0	0	0	0	0	0	$\frac{3\sqrt{7}}{14}$	0	0	0	0	0	0	0
		$\frac{5\sqrt{2}}{14}$	0	0	0	0	0	0	$-\frac{3\sqrt{3}}{14}$	0	0	0	0	0	0
		0	$-\frac{\sqrt{10}}{14}$	0	0	0	0	0	0	$-\frac{9}{14}$	0	0	0	0	0
		0	0	$-\frac{\sqrt{15}}{7}$	0	0	0	0	0	0	$-\frac{3\sqrt{5}}{14}$	0	0	0	0
413	$M_{3,-3}^{(a)}$	0	0	0	0	0	0	$-\frac{3\sqrt{7}}{14}$	0	0	0	0	0	0	
		$\frac{2\sqrt{6}}{7}$	0	0	0	0	0	0	$-\frac{3}{14}$	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	$\frac{3\sqrt{14}}{14}$	0	0	0	0	0	0	
		$\frac{5\sqrt{3}}{14}$	0	0	0	0	0	0	$\frac{3\sqrt{2}}{7}$	0	0	0	0	0	
		0	$\frac{3\sqrt{5}}{14}$	0	0	0	0	0	0	$\frac{3\sqrt{2}}{14}$	0	0	0	0	0
414	$M_{3,3}^{(1,-1;a)}$	0	0	0	0	0	$\frac{\sqrt{10}}{35}$	0	0	0	0	0	$\frac{2\sqrt{15}}{35}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{105}}{35}$	
		0	0	0	0	$-\frac{2\sqrt{3}}{35}$	0	0	0	0	0	$-\frac{\sqrt{30}}{35}$	0	0	
		0	0	0	0	0	$-\frac{2\sqrt{5}}{35}$	0	0	0	0	0	$-\frac{2\sqrt{30}}{35}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{210}}{35}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
415	$M_{3,2}^{(1,-1;a)}$	0	0	0	0	$-\frac{\sqrt{3}}{21}$	0	0	0	0	0	$-\frac{2\sqrt{30}}{35}$	0	0	
		0	0	0	0	0	$\frac{\sqrt{15}}{105}$	0	0	0	0	0	$-\frac{6\sqrt{10}}{35}$	0	
		0	0	0	$\frac{4}{35}$	0	0	0	0	0	$\frac{\sqrt{3}}{7}$	0	0	0	
		0	0	0	0	$\frac{2\sqrt{6}}{105}$	0	0	0	0	0	$\frac{3\sqrt{15}}{35}$	0	0	
		0	0	0	0	0	$-\frac{2\sqrt{30}}{105}$	0	0	0	0	0	$\frac{3\sqrt{5}}{35}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{105}}{35}$	

continued ...

Table 7

No.	multipole	matrix														
416	$M_{3,1}^{(1,-1;a)}$	0	0	0	$\frac{2\sqrt{15}}{105}$	0	0	0	0	0	$\frac{6\sqrt{5}}{35}$	0	0	0	0	
		0	0	0	0	$-\frac{\sqrt{30}}{105}$	0	0	0	0	0	0	$\frac{2\sqrt{3}}{7}$	0	0	0
		0	0	$-\frac{6\sqrt{10}}{175}$	0	0	0	0	0	0	$-\frac{2\sqrt{30}}{35}$	0	0	0	0	0
		0	0	0	$\frac{2\sqrt{30}}{525}$	0	0	0	0	0	0	$-\frac{3\sqrt{10}}{35}$	0	0	0	0
		0	0	0	0	$\frac{2\sqrt{15}}{75}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$-\frac{2}{35}$	0	0	0	0	0	0	0	$\frac{\sqrt{6}}{7}$	0
417	$M_{3,0}^{(1,-1;a)}$	0	0	$-\frac{\sqrt{5}}{35}$	0	0	0	0	0	0	$-\frac{4\sqrt{15}}{35}$	0	0	0	0	
		0	0	0	$\frac{\sqrt{5}}{35}$	0	0	0	0	0	0	$-\frac{4\sqrt{15}}{35}$	0	0	0	0
		0	$\frac{4\sqrt{15}}{175}$	0	0	0	0	0	0	$\frac{\sqrt{6}}{7}$	0	0	0	0	0	0
		0	0	$-\frac{4\sqrt{10}}{175}$	0	0	0	0	0	0	$\frac{\sqrt{30}}{35}$	0	0	0	0	0
		0	0	0	$-\frac{4\sqrt{10}}{175}$	0	0	0	0	0	0	$-\frac{\sqrt{30}}{35}$	0	0	0	0
		0	0	0	0	$\frac{4\sqrt{15}}{175}$	0	0	0	0	0	0	0	$-\frac{\sqrt{6}}{7}$	0	0
418	$M_{3,-1}^{(1,-1;a)}$	0	$\frac{\sqrt{30}}{105}$	0	0	0	0	0	0	$\frac{2\sqrt{3}}{7}$	0	0	0	0	0	
		0	0	$-\frac{2\sqrt{15}}{105}$	0	0	0	0	0	0	$\frac{6\sqrt{5}}{35}$	0	0	0	0	0
		$-\frac{2}{35}$	0	0	0	0	0	0	0	$-\frac{\sqrt{6}}{7}$	0	0	0	0	0	0
		0	$\frac{2\sqrt{15}}{75}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$\frac{2\sqrt{30}}{525}$	0	0	0	0	0	0	$\frac{3\sqrt{10}}{35}$	0	0	0	0	0
		0	0	0	$-\frac{6\sqrt{10}}{175}$	0	0	0	0	0	0	0	$\frac{2\sqrt{30}}{35}$	0	0	0
419	$M_{3,-2}^{(1,-1;a)}$	$-\frac{\sqrt{15}}{105}$	0	0	0	0	0	0	$-\frac{6\sqrt{10}}{35}$	0	0	0	0	0	0	
		0	$\frac{\sqrt{3}}{21}$	0	0	0	0	0	0	$-\frac{2\sqrt{30}}{35}$	0	0	0	0	0	
		0	0	0	0	0	0	$\frac{\sqrt{105}}{35}$	0	0	0	0	0	0	0	0
		$-\frac{2\sqrt{30}}{105}$	0	0	0	0	0	0	$-\frac{3\sqrt{5}}{35}$	0	0	0	0	0	0	0
		0	$\frac{2\sqrt{6}}{105}$	0	0	0	0	0	0	$-\frac{3\sqrt{15}}{35}$	0	0	0	0	0	0
		0	0	$\frac{4}{35}$	0	0	0	0	0	0	0	$-\frac{\sqrt{3}}{7}$	0	0	0	0

continued ...

Table 7

No.	multipole	matrix
420	$M_{3,-3}^{(1,-1;a)}$	$\begin{pmatrix} 0 & 0 & 0 & 0 & 0 & 0 & \frac{2\sqrt{105}}{35} & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ -\frac{\sqrt{10}}{35} & 0 & 0 & 0 & 0 & 0 & 0 & \frac{2\sqrt{15}}{35} & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{210}}{35} & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ -\frac{2\sqrt{5}}{35} & 0 & 0 & 0 & 0 & 0 & 0 & \frac{2\sqrt{30}}{35} & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & -\frac{2\sqrt{3}}{35} & 0 & 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{30}}{35} & 0 & 0 & 0 & 0 & 0 \end{pmatrix}$
421	$M_{5,5}^{(1,-1;a)}$	$\begin{pmatrix} 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{2\sqrt{6}}{9} \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \end{pmatrix}$
422	$M_{5,4}^{(1,-1;a)}$	$\begin{pmatrix} 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{2\sqrt{105}}{45} & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{2\sqrt{5}}{15} \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \end{pmatrix}$
423	$M_{5,3}^{(1,-1;a)}$	$\begin{pmatrix} 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{2\sqrt{70}}{45} & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{2\sqrt{70}}{45} & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{2\sqrt{10}}{45} & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \end{pmatrix}$

continued ...

Table 7

No.	multipole	matrix
424	$M_{5,2}^{(1,-1;a)}$	$\begin{pmatrix} 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{7}}{9} & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{35}}{15} & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{105}}{45} & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{5}}{45} \end{pmatrix}$
425	$M_{5,1}^{(1,-1;a)}$	$\begin{pmatrix} 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{2}{9} & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{2\sqrt{3}}{9} & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{2\sqrt{5}}{15} & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{2\sqrt{5}}{45} & 0 \end{pmatrix}$
426	$M_{5,0}^{(1,-1;a)}$	$\begin{pmatrix} 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{2}}{9} & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{10}}{9} & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{10}}{9} & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{2}}{9} & 0 & 0 \end{pmatrix}$
427	$M_{5,-1}^{(1,-1;a)}$	$\begin{pmatrix} 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{2\sqrt{5}}{45} & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{2\sqrt{5}}{15} & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{2\sqrt{3}}{9} & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{2}{9} & 0 & 0 \end{pmatrix}$

continued ...

Table 7

No.	multipole	matrix														
432	$M_{3,3}^{(1,0;a)}$	0	0	0	0	0	$\frac{\sqrt{2}}{7}$	0	0	0	0	0	0	$-\frac{5\sqrt{3}}{56}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{5\sqrt{21}}{56}$	0
		0	0	0	0	$-\frac{5\sqrt{15}}{56}$	0	0	0	0	0	0	$-\frac{\sqrt{6}}{28}$	0	0	0
		0	0	0	0	0	$-\frac{25}{56}$	0	0	0	0	0	0	$-\frac{\sqrt{6}}{14}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{42}}{28}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
433	$M_{3,2}^{(1,0;a)}$	0	0	0	0	$-\frac{\sqrt{15}}{21}$	0	0	0	0	0	0	$\frac{5\sqrt{6}}{56}$	0	0	
		0	0	0	0	0	$\frac{\sqrt{3}}{21}$	0	0	0	0	0	0	$\frac{15\sqrt{2}}{56}$	0	
		0	0	0	$\frac{5\sqrt{5}}{28}$	0	0	0	0	0	$\frac{\sqrt{15}}{28}$	0	0	0	0	0
		0	0	0	0	$\frac{5\sqrt{30}}{168}$	0	0	0	0	0	0	$\frac{3\sqrt{3}}{28}$	0	0	0
		0	0	0	0	0	$-\frac{25\sqrt{6}}{168}$	0	0	0	0	0	0	$\frac{3}{28}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{21}}{28}$	0
434	$M_{3,1}^{(1,0;a)}$	0	0	0	$\frac{2\sqrt{3}}{21}$	0	0	0	0	0	0	$-\frac{15}{56}$	0	0	0	
		0	0	0	0	$-\frac{\sqrt{6}}{21}$	0	0	0	0	0	0	$-\frac{5\sqrt{15}}{56}$	0	0	
		0	0	$-\frac{15\sqrt{2}}{56}$	0	0	0	0	0	0	$-\frac{\sqrt{6}}{14}$	0	0	0	0	0
		0	0	0	$\frac{5\sqrt{6}}{168}$	0	0	0	0	0	0	$-\frac{3\sqrt{2}}{28}$	0	0	0	0
		0	0	0	0	$\frac{5\sqrt{3}}{24}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$-\frac{5\sqrt{5}}{56}$	0	0	0	0	0	0	0	$\frac{\sqrt{30}}{28}$	0
435	$M_{3,0}^{(1,0;a)}$	0	0	$-\frac{1}{7}$	0	0	0	0	0	0	$\frac{5\sqrt{3}}{28}$	0	0	0	0	
		0	0	0	$\frac{1}{7}$	0	0	0	0	0	0	$\frac{5\sqrt{3}}{28}$	0	0	0	0
		0	$\frac{5\sqrt{3}}{28}$	0	0	0	0	0	0	$\frac{\sqrt{30}}{28}$	0	0	0	0	0	0
		0	0	$-\frac{5\sqrt{2}}{28}$	0	0	0	0	0	0	$\frac{\sqrt{6}}{28}$	0	0	0	0	0
		0	0	0	$-\frac{5\sqrt{2}}{28}$	0	0	0	0	0	0	$-\frac{\sqrt{6}}{28}$	0	0	0	0
		0	0	0	0	$\frac{5\sqrt{3}}{28}$	0	0	0	0	0	0	0	$-\frac{\sqrt{30}}{28}$	0	0

continued ...

Table 7

No.	multipole	matrix														
436	$M_{3,-1}^{(1,0;a)}$	0	$\frac{\sqrt{6}}{21}$	0	0	0	0	0	0	$-\frac{5\sqrt{15}}{56}$	0	0	0	0	0	0
		0	0	$-\frac{2\sqrt{3}}{21}$	0	0	0	0	0	0	$-\frac{15}{56}$	0	0	0	0	0
		$-\frac{5\sqrt{5}}{56}$	0	0	0	0	0	0	$-\frac{\sqrt{30}}{28}$	0	0	0	0	0	0	0
		0	$\frac{5\sqrt{3}}{24}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$\frac{5\sqrt{6}}{168}$	0	0	0	0	0	0	$\frac{3\sqrt{2}}{28}$	0	0	0	0	0
		0	0	0	$-\frac{15\sqrt{2}}{56}$	0	0	0	0	0	0	0	$\frac{\sqrt{6}}{14}$	0	0	0
437	$M_{3,-2}^{(1,0;a)}$	$-\frac{\sqrt{3}}{21}$	0	0	0	0	0	0	$\frac{15\sqrt{2}}{56}$	0	0	0	0	0	0	0
		0	$\frac{\sqrt{15}}{21}$	0	0	0	0	0	0	$\frac{5\sqrt{6}}{56}$	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{\sqrt{21}}{28}$	0	0	0	0	0	0	0	0
		$-\frac{25\sqrt{6}}{168}$	0	0	0	0	0	0	$-\frac{3}{28}$	0	0	0	0	0	0	0
		0	$\frac{5\sqrt{30}}{168}$	0	0	0	0	0	0	$-\frac{3\sqrt{3}}{28}$	0	0	0	0	0	0
		0	0	$\frac{5\sqrt{5}}{28}$	0	0	0	0	0	0	$-\frac{\sqrt{15}}{28}$	0	0	0	0	0
438	$M_{3,-3}^{(1,0;a)}$	0	0	0	0	0	0	$-\frac{5\sqrt{21}}{56}$	0	0	0	0	0	0	0	0
		$-\frac{\sqrt{2}}{7}$	0	0	0	0	0	0	$-\frac{5\sqrt{3}}{56}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{\sqrt{42}}{28}$	0	0	0	0	0	0	0	0
		$-\frac{25}{56}$	0	0	0	0	0	0	$\frac{\sqrt{6}}{14}$	0	0	0	0	0	0	0
		0	$-\frac{5\sqrt{15}}{56}$	0	0	0	0	0	0	0	$\frac{\sqrt{6}}{28}$	0	0	0	0	0
439	$M_{1,1}^{(1,1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$\frac{3\sqrt{10}}{50}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$\frac{3\sqrt{30}}{50}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{3\sqrt{15}}{25}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$\frac{3}{5}$	0	0	0	0	0	0	0	0	0

continued ...

Table 7

No.	multipole	matrix														
440	$M_{1,0}^{(1,1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	$-\frac{3\sqrt{10}}{25}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$-\frac{3\sqrt{15}}{25}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$-\frac{3\sqrt{15}}{25}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{3\sqrt{10}}{25}$	0	0	0	0	0	0	0	0	0	0
441	$M_{1,-1}^{(1,1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		$\frac{3}{5}$	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	$\frac{3\sqrt{15}}{25}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$\frac{3\sqrt{30}}{50}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$\frac{3\sqrt{10}}{50}$	0	0	0	0	0	0	0	0	0	0	0
442	$M_{3,3}^{(1,1;a)}$	0	0	0	0	0	$-\frac{4\sqrt{6}}{21}$	0	0	0	0	0	0	$\frac{1}{42}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{7}}{42}$	
		0	0	0	0	$-\frac{\sqrt{5}}{14}$	0	0	0	0	0	0	$\frac{\sqrt{2}}{63}$	0	0	
		0	0	0	0	0	$-\frac{5\sqrt{3}}{42}$	0	0	0	0	0	0	$\frac{2\sqrt{2}}{63}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{14}}{63}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
443	$M_{3,2}^{(1,1;a)}$	0	0	0	0	$\frac{4\sqrt{5}}{21}$	0	0	0	0	0	0	$-\frac{\sqrt{2}}{42}$	0	0	
		0	0	0	0	0	$-\frac{4}{21}$	0	0	0	0	0	0	$-\frac{\sqrt{6}}{42}$	0	
		0	0	0	$\frac{\sqrt{15}}{21}$	0	0	0	0	0	$-\frac{\sqrt{5}}{63}$	0	0	0	0	
		0	0	0	0	$\frac{\sqrt{10}}{42}$	0	0	0	0	0	0	$-\frac{1}{21}$	0	0	
		0	0	0	0	0	$-\frac{5\sqrt{2}}{42}$	0	0	0	0	0	0	$-\frac{\sqrt{3}}{63}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{7}}{63}$	

continued ...

Table 7

No.	multipole	matrix
444	$M_{3,1}^{(1,1;a)}$	$\begin{pmatrix} 0 & 0 & 0 & -\frac{8}{21} & 0 & 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{3}}{42} & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & \frac{4\sqrt{2}}{21} & 0 & 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{5}}{42} & 0 & 0 \\ 0 & 0 & -\frac{\sqrt{6}}{14} & 0 & 0 & 0 & 0 & 0 & 0 & \frac{2\sqrt{2}}{63} & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & \frac{\sqrt{2}}{42} & 0 & 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{6}}{63} & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & \frac{1}{6} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{15}}{42} & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{10}}{63} & 0 \end{pmatrix}$
445	$M_{3,0}^{(1,1;a)}$	$\begin{pmatrix} 0 & 0 & \frac{4\sqrt{3}}{21} & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{1}{21} & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & -\frac{4\sqrt{3}}{21} & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{1}{21} & 0 & 0 & 0 \\ 0 & \frac{1}{7} & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{10}}{63} & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & -\frac{\sqrt{6}}{21} & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{2}}{63} & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & -\frac{\sqrt{6}}{21} & 0 & 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{2}}{63} & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & \frac{1}{7} & 0 & 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{10}}{63} & 0 & 0 \end{pmatrix}$
446	$M_{3,-1}^{(1,1;a)}$	$\begin{pmatrix} 0 & -\frac{4\sqrt{2}}{21} & 0 & 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{5}}{42} & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & \frac{8}{21} & 0 & 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{3}}{42} & 0 & 0 & 0 & 0 \\ -\frac{\sqrt{15}}{42} & 0 & 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{10}}{63} & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & \frac{1}{6} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & \frac{\sqrt{2}}{42} & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{6}}{63} & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & -\frac{\sqrt{6}}{14} & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{2\sqrt{2}}{63} & 0 & 0 & 0 \end{pmatrix}$
447	$M_{3,-2}^{(1,1;a)}$	$\begin{pmatrix} \frac{4}{21} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{6}}{42} & 0 & 0 & 0 & 0 & 0 \\ 0 & -\frac{4\sqrt{5}}{21} & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{2}}{42} & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{7}}{63} & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ -\frac{5\sqrt{2}}{42} & 0 & 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{3}}{63} & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & \frac{\sqrt{10}}{42} & 0 & 0 & 0 & 0 & 0 & 0 & \frac{1}{21} & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & \frac{\sqrt{15}}{21} & 0 & 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{5}}{63} & 0 & 0 & 0 & 0 \end{pmatrix}$

continued ...

Table 7

No.	multipole	matrix													
448	$\mathbb{M}_{3,-3}^{(1,1;a)}$	0	0	0	0	0	0	$\frac{\sqrt{7}}{42}$	0	0	0	0	0	0	0
		$\frac{4\sqrt{6}}{21}$	0	0	0	0	0	0	$\frac{1}{42}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{\sqrt{14}}{63}$	0	0	0	0	0	0	0
		$-\frac{5\sqrt{3}}{42}$	0	0	0	0	0	0	$-\frac{2\sqrt{2}}{63}$	0	0	0	0	0	0
		0	$-\frac{\sqrt{5}}{14}$	0	0	0	0	0	0	$-\frac{\sqrt{2}}{63}$	0	0	0	0	0

$$\text{bra:} = \left| \frac{3}{2}, \frac{3}{2}; d \right\rangle, \left| \frac{3}{2}, \frac{1}{2}; d \right\rangle, \left| \frac{3}{2}, -\frac{1}{2}; d \right\rangle, \left| \frac{3}{2}, -\frac{3}{2}; d \right\rangle, \left| \frac{5}{2}, \frac{5}{2}; d \right\rangle, \left| \frac{5}{2}, \frac{3}{2}; d \right\rangle, \left| \frac{5}{2}, \frac{1}{2}; d \right\rangle, \left| \frac{5}{2}, -\frac{1}{2}; d \right\rangle, \left| \frac{5}{2}, -\frac{3}{2}; d \right\rangle, \left| \frac{5}{2}, -\frac{5}{2}; d \right\rangle$$

$$\text{ket:} = \left| \frac{3}{2}, \frac{3}{2}; d \right\rangle, \left| \frac{3}{2}, \frac{1}{2}; d \right\rangle, \left| \frac{3}{2}, -\frac{1}{2}; d \right\rangle, \left| \frac{3}{2}, -\frac{3}{2}; d \right\rangle, \left| \frac{5}{2}, \frac{5}{2}; d \right\rangle, \left| \frac{5}{2}, \frac{3}{2}; d \right\rangle, \left| \frac{5}{2}, \frac{1}{2}; d \right\rangle, \left| \frac{5}{2}, -\frac{1}{2}; d \right\rangle, \left| \frac{5}{2}, -\frac{3}{2}; d \right\rangle, \left| \frac{5}{2}, -\frac{5}{2}; d \right\rangle$$

Table 8: (d,d) block.

No.	multipole	matrix												
449	$\mathbb{Q}_{0,0}^{(a)}$	1	0	0	0	0	0	0	0	0	0	0	0	0
		0	1	0	0	0	0	0	0	0	0	0	0	0
		0	0	1	0	0	0	0	0	0	0	0	0	0
		0	0	0	1	0	0	0	0	0	0	0	0	0
		0	0	0	0	1	0	0	0	0	0	0	0	0
		0	0	0	0	0	1	0	0	0	0	0	0	0
		0	0	0	0	0	0	1	0	0	0	0	0	0
		0	0	0	0	0	0	0	1	0	0	0	0	0
		0	0	0	0	0	0	0	0	1	0	0	0	0
		0	0	0	0	0	0	0	0	0	1	0	0	0

continued ...

Table 8

No.	multipole	matrix									
450	$\mathbb{Q}_{2,2}^{(a)}$	0	0	$-\frac{\sqrt{2}}{5}$	0	0	0	0	$-\frac{2\sqrt{3}}{35}$	0	0
		0	0	0	$-\frac{\sqrt{2}}{5}$	0	0	0	0	$-\frac{4\sqrt{2}}{35}$	0
		0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{10}}{35}$
		0	0	0	0	0	0	0	0	0	0
		0	$\frac{2\sqrt{10}}{35}$	0	0	0	0	$-\frac{2\sqrt{15}}{35}$	0	0	0
		0	0	$\frac{4\sqrt{2}}{35}$	0	0	0	0	$-\frac{6\sqrt{3}}{35}$	0	0
		0	0	0	$\frac{2\sqrt{3}}{35}$	0	0	0	0	$-\frac{6\sqrt{3}}{35}$	0
		0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{15}}{35}$
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
451	$\mathbb{Q}_{2,1}^{(a)}$	0	$\frac{\sqrt{2}}{5}$	0	0	0	0	$\frac{3\sqrt{3}}{35}$	0	0	0
		0	0	0	0	0	0	0	$\frac{1}{7}$	0	0
		0	0	0	$-\frac{\sqrt{2}}{5}$	0	0	0	0	$\frac{\sqrt{2}}{35}$	0
		0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{30}}{35}$
		$-\frac{\sqrt{30}}{35}$	0	0	0	0	$\frac{2\sqrt{30}}{35}$	0	0	0	0
		0	$\frac{\sqrt{2}}{35}$	0	0	0	0	$\frac{4\sqrt{3}}{35}$	0	0	0
		0	0	$\frac{1}{7}$	0	0	0	0	0	0	0
		0	0	0	$\frac{3\sqrt{3}}{35}$	0	0	0	0	$-\frac{4\sqrt{3}}{35}$	0
		0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{30}}{35}$
		0	0	0	0	0	0	0	0	0	0

continued ...

Table 8

No.	multipole	matrix									
452	$Q_{2,0}^{(a)}$	$-\frac{1}{5}$	0	0	0	0	$-\frac{6}{35}$	0	0	0	0
		0	$\frac{1}{5}$	0	0	0	0	$-\frac{\sqrt{6}}{35}$	0	0	0
		0	0	$\frac{1}{5}$	0	0	0	0	$\frac{\sqrt{6}}{35}$	0	0
		0	0	0	$-\frac{1}{5}$	0	0	0	0	$\frac{6}{35}$	0
		0	0	0	0	$-\frac{2}{7}$	0	0	0	0	0
		$-\frac{6}{35}$	0	0	0	0	$\frac{2}{35}$	0	0	0	0
		0	$-\frac{\sqrt{6}}{35}$	0	0	0	0	$\frac{8}{35}$	0	0	0
		0	0	$\frac{\sqrt{6}}{35}$	0	0	0	0	$\frac{8}{35}$	0	0
		0	0	0	$\frac{6}{35}$	0	0	0	0	$\frac{2}{35}$	0
		0	0	0	0	0	0	0	0	0	$-\frac{2}{7}$
453	$Q_{2,-1}^{(a)}$	0	0	0	0	$\frac{\sqrt{30}}{35}$	0	0	0	0	0
		$-\frac{\sqrt{2}}{5}$	0	0	0	0	$-\frac{\sqrt{2}}{35}$	0	0	0	0
		0	0	0	0	0	0	$-\frac{1}{7}$	0	0	0
		0	0	$\frac{\sqrt{2}}{5}$	0	0	0	0	$-\frac{3\sqrt{3}}{35}$	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{2\sqrt{30}}{35}$	0	0	0	0	0
		$-\frac{3\sqrt{3}}{35}$	0	0	0	0	$-\frac{4\sqrt{3}}{35}$	0	0	0	0
		0	$-\frac{1}{7}$	0	0	0	0	0	0	0	0
		0	0	$-\frac{\sqrt{2}}{35}$	0	0	0	0	$\frac{4\sqrt{3}}{35}$	0	0
		0	0	0	$\frac{\sqrt{30}}{35}$	0	0	0	0	$\frac{2\sqrt{30}}{35}$	0

continued ...

Table 8

No.	multipole	matrix									
454	$Q_{2,-2}^{(a)}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{2\sqrt{10}}{35}$	0	0	0	0	0
		$-\frac{\sqrt{2}}{5}$	0	0	0	0	$\frac{4\sqrt{2}}{35}$	0	0	0	0
		0	$-\frac{\sqrt{2}}{5}$	0	0	0	0	$\frac{2\sqrt{3}}{35}$	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{2\sqrt{15}}{35}$	0	0	0	0	0
		$-\frac{2\sqrt{3}}{35}$	0	0	0	0	$-\frac{6\sqrt{3}}{35}$	0	0	0	0
		0	$-\frac{4\sqrt{2}}{35}$	0	0	0	0	$-\frac{6\sqrt{3}}{35}$	0	0	0
		0	0	$-\frac{2\sqrt{10}}{35}$	0	0	0	0	$-\frac{2\sqrt{15}}{35}$	0	0
455	$Q_{4,4}^{(a)}$	0	0	0	0	0	0	0	0	$\frac{2\sqrt{14}}{21}$	
		0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		0	0	0	$-\frac{2\sqrt{14}}{21}$	0	0	0	0	$\frac{\sqrt{14}}{21}$	0
		0	0	0	0	0	0	0	0	$\frac{\sqrt{14}}{21}$	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0

continued ...

Table 8

No.	multipole	matrix									
456	$Q_{4,3}^{(a)}$	0	0	0	0	0	0	0	0	$-\frac{\sqrt{35}}{21}$	0
		0	0	0	0	0	0	0	0	0	$\frac{\sqrt{21}}{21}$
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	$\frac{\sqrt{21}}{21}$	0	0	0	0	$-\frac{\sqrt{14}}{21}$	0	0
		0	0	0	$-\frac{\sqrt{35}}{21}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$\frac{\sqrt{14}}{21}$
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
457	$Q_{4,2}^{(a)}$	0	0	0	0	0	0	0	$\frac{2\sqrt{5}}{21}$	0	0
		0	0	0	0	0	0	0	0	$-\frac{\sqrt{30}}{21}$	0
		0	0	0	0	0	0	0	0	0	$\frac{\sqrt{6}}{21}$
		0	0	0	0	0	0	0	0	0	0
		0	$-\frac{\sqrt{6}}{21}$	0	0	0	0	$\frac{1}{7}$	0	0	0
		0	0	$\frac{\sqrt{30}}{21}$	0	0	0	0	$-\frac{\sqrt{5}}{21}$	0	0
		0	0	0	$-\frac{2\sqrt{5}}{21}$	0	0	0	0	$-\frac{\sqrt{5}}{21}$	0
		0	0	0	0	0	0	0	0	0	$\frac{1}{7}$
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0

continued ...

Table 8

No.	multipole	matrix									
458	$Q_{4,1}^{(a)}$	0	0	0	0	0	0	$-\frac{\sqrt{10}}{21}$	0	0	0
		0	0	0	0	0	0	0	$\frac{\sqrt{30}}{21}$	0	0
		0	0	0	0	0	0	0	0	$-\frac{\sqrt{15}}{21}$	0
		0	0	0	0	0	0	0	0	0	$\frac{1}{21}$
		$\frac{1}{21}$	0	0	0	0	$-\frac{2}{21}$	0	0	0	0
		0	$-\frac{\sqrt{15}}{21}$	0	0	0	0	$\frac{\sqrt{10}}{21}$	0	0	0
		0	0	$\frac{\sqrt{30}}{21}$	0	0	0	0	0	0	0
		0	0	0	$-\frac{\sqrt{10}}{21}$	0	0	0	0	$-\frac{\sqrt{10}}{21}$	0
		0	0	0	0	0	0	0	0	0	$\frac{2}{21}$
		0	0	0	0	0	0	0	0	0	0
459	$Q_{4,0}^{(a)}$	0	0	0	0	0	$\frac{2}{21}$	0	0	0	0
		0	0	0	0	0	0	$-\frac{2\sqrt{6}}{21}$	0	0	0
		0	0	0	0	0	0	0	$\frac{2\sqrt{6}}{21}$	0	0
		0	0	0	0	0	0	0	0	$-\frac{2}{21}$	0
		0	0	0	0	$\frac{1}{21}$	0	0	0	0	0
		$\frac{2}{21}$	0	0	0	0	$-\frac{1}{7}$	0	0	0	0
		0	$-\frac{2\sqrt{6}}{21}$	0	0	0	0	$\frac{2}{21}$	0	0	0
		0	0	$\frac{2\sqrt{6}}{21}$	0	0	0	0	$\frac{2}{21}$	0	0
		0	0	0	$-\frac{2}{21}$	0	0	0	0	$-\frac{1}{7}$	0
		0	0	0	0	0	0	0	0	0	$\frac{1}{21}$

continued ...

Table 8

No.	multipole	matrix									
460	$Q_{4,-1}^{(a)}$	0	0	0	0	$-\frac{1}{21}$	0	0	0	0	0
		0	0	0	0	0	$\frac{\sqrt{15}}{21}$	0	0	0	0
		0	0	0	0	0	0	$-\frac{\sqrt{30}}{21}$	0	0	0
		0	0	0	0	0	0	0	$\frac{\sqrt{10}}{21}$	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{2}{21}$	0	0	0	0	0
		$\frac{\sqrt{10}}{21}$	0	0	0	0	$-\frac{\sqrt{10}}{21}$	0	0	0	0
		0	$-\frac{\sqrt{30}}{21}$	0	0	0	0	0	0	0	0
		0	0	$\frac{\sqrt{15}}{21}$	0	0	0	0	$\frac{\sqrt{10}}{21}$	0	0
		0	0	0	$-\frac{1}{21}$	0	0	0	0	$-\frac{2}{21}$	0
461	$Q_{4,-2}^{(a)}$	0	0	0	0	0	0	0	0	0	
		0	0	0	0	$-\frac{\sqrt{6}}{21}$	0	0	0	0	
		0	0	0	0	0	$\frac{\sqrt{30}}{21}$	0	0	0	
		0	0	0	0	0	0	$-\frac{2\sqrt{5}}{21}$	0	0	
		0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		0	0	0	0	$\frac{1}{7}$	0	0	0	0	
		$\frac{2\sqrt{5}}{21}$	0	0	0	0	$-\frac{\sqrt{5}}{21}$	0	0	0	
		0	$-\frac{\sqrt{30}}{21}$	0	0	0	0	$-\frac{\sqrt{5}}{21}$	0	0	
		0	0	$\frac{\sqrt{6}}{21}$	0	0	0	0	$\frac{1}{7}$	0	

continued ...

Table 8

No.	multipole	matrix									
462	$Q_{4,-3}^{(a)}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{\sqrt{21}}{21}$	0	0	0	0	0
		0	0	0	0	0	$\frac{\sqrt{35}}{21}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{\sqrt{14}}{21}$	0	0	0	0	0
		$\frac{\sqrt{35}}{21}$	0	0	0	0	0	0	0	0	0
		0	$-\frac{\sqrt{21}}{21}$	0	0	0	0	$-\frac{\sqrt{14}}{21}$	0	0	0
463	$Q_{4,-4}^{(a)}$	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		0	0	0	0	$-\frac{2\sqrt{14}}{21}$	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		0	0	0	0	$\frac{\sqrt{14}}{21}$	0	0	0	0	
		$\frac{2\sqrt{14}}{21}$	0	0	0	0	$\frac{\sqrt{14}}{21}$	0	0	0	

continued ...

Table 8

No.	multipole	matrix									
464	$Q_{2,2}^{(1,-1;a)}$	0	0	$-\frac{2\sqrt{3}}{5}$	0	0	0	0	$-\frac{3\sqrt{2}}{5}$	0	0
		0	0	0	$-\frac{2\sqrt{3}}{5}$	0	0	0	0	$-\frac{4\sqrt{3}}{5}$	0
		0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{15}}{5}$
		0	0	0	0	0	0	0	0	0	0
		0	$\frac{2\sqrt{15}}{5}$	0	0	0	0	$\frac{2\sqrt{10}}{5}$	0	0	0
		0	0	$\frac{4\sqrt{3}}{5}$	0	0	0	0	$\frac{6\sqrt{2}}{5}$	0	0
		0	0	0	$\frac{3\sqrt{2}}{5}$	0	0	0	0	$\frac{6\sqrt{2}}{5}$	0
		0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{10}}{5}$
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
465	$Q_{2,1}^{(1,-1;a)}$	0	$\frac{2\sqrt{3}}{5}$	0	0	0	0	$\frac{9\sqrt{2}}{10}$	0	0	0
		0	0	0	0	0	0	0	$\frac{\sqrt{6}}{2}$	0	0
		0	0	0	$-\frac{2\sqrt{3}}{5}$	0	0	0	0	$\frac{\sqrt{3}}{5}$	0
		0	0	0	0	0	0	0	0	0	$-\frac{3\sqrt{5}}{5}$
		$-\frac{3\sqrt{5}}{5}$	0	0	0	0	0	$-\frac{4\sqrt{5}}{5}$	0	0	0
		0	$\frac{\sqrt{3}}{5}$	0	0	0	0	$-\frac{4\sqrt{2}}{5}$	0	0	0
		0	0	$\frac{\sqrt{6}}{2}$	0	0	0	0	0	0	0
		0	0	0	$\frac{9\sqrt{2}}{10}$	0	0	0	0	$\frac{4\sqrt{2}}{5}$	0
		0	0	0	0	0	0	0	0	0	$\frac{4\sqrt{5}}{5}$
		0	0	0	0	0	0	0	0	0	0

continued ...

Table 8

No.	multipole	matrix									
466	$Q_{2,0}^{(1,-1;a)}$	$-\frac{\sqrt{6}}{5}$	0	0	0	0	$-\frac{3\sqrt{6}}{5}$	0	0	0	0
		0	$\frac{\sqrt{6}}{5}$	0	0	0	0	$-\frac{3}{5}$	0	0	0
		0	0	$\frac{\sqrt{6}}{5}$	0	0	0	0	$\frac{3}{5}$	0	0
		0	0	0	$-\frac{\sqrt{6}}{5}$	0	0	0	0	$\frac{3\sqrt{6}}{5}$	0
		0	0	0	0	$\frac{2\sqrt{6}}{3}$	0	0	0	0	0
		$-\frac{3\sqrt{6}}{5}$	0	0	0	0	$-\frac{2\sqrt{6}}{15}$	0	0	0	0
		0	$-\frac{3}{5}$	0	0	0	0	$-\frac{8\sqrt{6}}{15}$	0	0	0
		0	0	$\frac{3}{5}$	0	0	0	0	$-\frac{8\sqrt{6}}{15}$	0	0
		0	0	0	$\frac{3\sqrt{6}}{5}$	0	0	0	0	$-\frac{2\sqrt{6}}{15}$	0
		0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{6}}{3}$
467	$Q_{2,-1}^{(1,-1;a)}$	0	0	0	0	$\frac{3\sqrt{5}}{5}$	0	0	0	0	0
		$-\frac{2\sqrt{3}}{5}$	0	0	0	0	$-\frac{\sqrt{3}}{5}$	0	0	0	0
		0	0	0	0	0	0	$-\frac{\sqrt{6}}{2}$	0	0	0
		0	0	$\frac{2\sqrt{3}}{5}$	0	0	0	0	$-\frac{9\sqrt{2}}{10}$	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{4\sqrt{5}}{5}$	0	0	0	0	0
		$-\frac{9\sqrt{2}}{10}$	0	0	0	0	$\frac{4\sqrt{2}}{5}$	0	0	0	0
		0	$-\frac{\sqrt{6}}{2}$	0	0	0	0	0	0	0	0
		0	0	$-\frac{\sqrt{3}}{5}$	0	0	0	0	$-\frac{4\sqrt{2}}{5}$	0	0
		0	0	0	$\frac{3\sqrt{5}}{5}$	0	0	0	0	$-\frac{4\sqrt{5}}{5}$	0

continued ...

Table 8

No.	multipole	matrix									
468	$Q_{2,-2}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{2\sqrt{15}}{5}$	0	0	0	0	0
		$-\frac{2\sqrt{3}}{5}$	0	0	0	0	$\frac{4\sqrt{3}}{5}$	0	0	0	0
		0	$-\frac{2\sqrt{3}}{5}$	0	0	0	0	$\frac{3\sqrt{2}}{5}$	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{2\sqrt{10}}{5}$	0	0	0	0	0
		$-\frac{3\sqrt{2}}{5}$	0	0	0	0	$\frac{6\sqrt{2}}{5}$	0	0	0	0
		0	$-\frac{4\sqrt{3}}{5}$	0	0	0	0	$\frac{6\sqrt{2}}{5}$	0	0	0
		0	0	$-\frac{2\sqrt{15}}{5}$	0	0	0	0	$\frac{2\sqrt{10}}{5}$	0	0
469	$Q_{4,4}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	$\frac{3\sqrt{2}}{7}$	
		0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		0	0	0	$-\frac{3\sqrt{2}}{7}$	0	0	0	0	$-\frac{6\sqrt{2}}{7}$	0
		0	0	0	0	0	0	0	0	$-\frac{6\sqrt{2}}{7}$	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0

continued ...

Table 8

No.	multipole	matrix										
470	$Q_{4,3}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	$-\frac{3\sqrt{5}}{14}$	0	
		0	0	0	0	0	0	0	0	0	$\frac{3\sqrt{3}}{14}$	
		0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	
		0	0	$\frac{3\sqrt{3}}{14}$	0	0	0	0	$\frac{6\sqrt{2}}{7}$	0	0	
		0	0	0	$-\frac{3\sqrt{5}}{14}$	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	$-\frac{6\sqrt{2}}{7}$	
		0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	
471	$Q_{4,2}^{(1,-1;a)}$	0	0	0	0	0	0	0	$\frac{3\sqrt{35}}{49}$	0	0	
		0	0	0	0	0	0	0	0	$-\frac{3\sqrt{210}}{98}$	0	
		0	0	0	0	0	0	0	0	0	$\frac{3\sqrt{42}}{98}$	
		0	0	0	0	0	0	0	0	0	0	
		0	$-\frac{3\sqrt{42}}{98}$	0	0	0	0	$-\frac{18\sqrt{7}}{49}$	0	0	0	0
		0	0	$\frac{3\sqrt{210}}{98}$	0	0	0	0	$\frac{6\sqrt{35}}{49}$	0	0	0
		0	0	0	$-\frac{3\sqrt{35}}{49}$	0	0	0	0	$\frac{6\sqrt{35}}{49}$	0	0
		0	0	0	0	0	0	0	0	0	$-\frac{18\sqrt{7}}{49}$	0
		0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 8

No.	multipole	matrix									
472	$Q_{4,1}^{(1,-1;a)}$	0	0	0	0	0	0	$-\frac{3\sqrt{70}}{98}$	0	0	0
		0	0	0	0	0	0	0	$\frac{3\sqrt{210}}{98}$	0	0
		0	0	0	0	0	0	0	0	$-\frac{3\sqrt{105}}{98}$	0
		0	0	0	0	0	0	0	0	0	$\frac{3\sqrt{7}}{98}$
		$\frac{3\sqrt{7}}{98}$	0	0	0	0	$\frac{12\sqrt{7}}{49}$	0	0	0	0
		0	$-\frac{3\sqrt{105}}{98}$	0	0	0	0	$-\frac{6\sqrt{70}}{49}$	0	0	0
		0	0	$\frac{3\sqrt{210}}{98}$	0	0	0	0	0	0	0
		0	0	0	$-\frac{3\sqrt{70}}{98}$	0	0	0	0	$\frac{6\sqrt{70}}{49}$	0
		0	0	0	0	0	0	0	0	0	$-\frac{12\sqrt{7}}{49}$
		0	0	0	0	0	0	0	0	0	0
473	$Q_{4,0}^{(1,-1;a)}$	0	0	0	0	0	$\frac{3\sqrt{7}}{49}$	0	0	0	0
		0	0	0	0	0	0	$-\frac{3\sqrt{42}}{49}$	0	0	0
		0	0	0	0	0	0	0	$\frac{3\sqrt{42}}{49}$	0	0
		0	0	0	0	0	0	0	0	$-\frac{3\sqrt{7}}{49}$	0
		0	0	0	0	$-\frac{6\sqrt{7}}{49}$	0	0	0	0	0
		$\frac{3\sqrt{7}}{49}$	0	0	0	0	$\frac{18\sqrt{7}}{49}$	0	0	0	0
		0	$-\frac{3\sqrt{42}}{49}$	0	0	0	0	$-\frac{12\sqrt{7}}{49}$	0	0	0
		0	0	$\frac{3\sqrt{42}}{49}$	0	0	0	0	$-\frac{12\sqrt{7}}{49}$	0	0
		0	0	0	$-\frac{3\sqrt{7}}{49}$	0	0	0	0	$\frac{18\sqrt{7}}{49}$	0
		0	0	0	0	0	0	0	0	0	$-\frac{6\sqrt{7}}{49}$

continued ...

Table 8

No.	multipole	matrix									
474	$Q_{4,-1}^{(1,-1;a)}$	0	0	0	0	$-\frac{3\sqrt{7}}{98}$	0	0	0	0	0
		0	0	0	0	0	$\frac{3\sqrt{105}}{98}$	0	0	0	0
		0	0	0	0	0	0	$-\frac{3\sqrt{210}}{98}$	0	0	0
		0	0	0	0	0	0	0	$\frac{3\sqrt{70}}{98}$	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{12\sqrt{7}}{49}$	0	0	0	0	0
		$\frac{3\sqrt{70}}{98}$	0	0	0	0	$\frac{6\sqrt{70}}{49}$	0	0	0	0
		0	$-\frac{3\sqrt{210}}{98}$	0	0	0	0	0	0	0	0
		0	0	$\frac{3\sqrt{105}}{98}$	0	0	0	0	$-\frac{6\sqrt{70}}{49}$	0	0
		0	0	0	$-\frac{3\sqrt{7}}{98}$	0	0	0	0	$\frac{12\sqrt{7}}{49}$	0
475	$Q_{4,-2}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	
		0	0	0	0	$-\frac{3\sqrt{42}}{98}$	0	0	0	0	
		0	0	0	0	0	$\frac{3\sqrt{210}}{98}$	0	0	0	
		0	0	0	0	0	0	$-\frac{3\sqrt{35}}{49}$	0	0	
		0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		0	0	0	0	$-\frac{18\sqrt{7}}{49}$	0	0	0	0	
		$\frac{3\sqrt{35}}{49}$	0	0	0	0	$\frac{6\sqrt{35}}{49}$	0	0	0	
		0	$-\frac{3\sqrt{210}}{98}$	0	0	0	0	$\frac{6\sqrt{35}}{49}$	0	0	
		0	0	$\frac{3\sqrt{42}}{98}$	0	0	0	0	$-\frac{18\sqrt{7}}{49}$	0	

continued ...

Table 8

No.	multipole	matrix									
476	$Q_{4,-3}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{3\sqrt{3}}{14}$	0	0	0	0	0
		0	0	0	0	0	$\frac{3\sqrt{5}}{14}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{6\sqrt{2}}{7}$	0	0	0	0	0
		$\frac{3\sqrt{5}}{14}$	0	0	0	0	0	0	0	0	0
		0	$-\frac{3\sqrt{3}}{14}$	0	0	0	0	$\frac{6\sqrt{2}}{7}$	0	0	0
477	$Q_{4,-4}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		0	0	0	0	$-\frac{3\sqrt{2}}{7}$	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		0	0	0	0	$-\frac{6\sqrt{2}}{7}$	0	0	0	0	
		$\frac{3\sqrt{2}}{7}$	0	0	0	0	$-\frac{6\sqrt{2}}{7}$	0	0	0	

continued ...

Table 8

No.	multipole	matrix									
478	$\mathbb{Q}_{0,0}^{(1,1;a)}$	$-\sqrt{3}$	0	0	0	0	0	0	0	0	0
		0	$-\sqrt{3}$	0	0	0	0	0	0	0	0
		0	0	$-\sqrt{3}$	0	0	0	0	0	0	0
		0	0	0	$-\sqrt{3}$	0	0	0	0	0	0
		0	0	0	0	$\frac{2\sqrt{3}}{3}$	0	0	0	0	0
		0	0	0	0	0	$\frac{2\sqrt{3}}{3}$	0	0	0	0
		0	0	0	0	0	0	$\frac{2\sqrt{3}}{3}$	0	0	0
		0	0	0	0	0	0	0	$\frac{2\sqrt{3}}{3}$	0	0
		0	0	0	0	0	0	0	0	$\frac{2\sqrt{3}}{3}$	0
		0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{3}}{3}$
479	$\mathbb{Q}_{2,2}^{(1,1;a)}$	0	0	$\frac{6\sqrt{42}}{35}$	0	0	0	0	$-\frac{24\sqrt{7}}{245}$	0	0
		0	0	0	$\frac{6\sqrt{42}}{35}$	0	0	0	0	$-\frac{16\sqrt{42}}{245}$	0
		0	0	0	0	0	0	0	0	0	$-\frac{8\sqrt{210}}{245}$
		0	0	0	0	0	0	0	0	0	0
		0	$\frac{8\sqrt{210}}{245}$	0	0	0	0	$-\frac{9\sqrt{35}}{245}$	0	0	0
		0	0	$\frac{16\sqrt{42}}{245}$	0	0	0	0	$-\frac{27\sqrt{7}}{245}$	0	0
		0	0	0	$\frac{24\sqrt{7}}{245}$	0	0	0	0	$-\frac{27\sqrt{7}}{245}$	0
		0	0	0	0	0	0	0	0	0	$-\frac{9\sqrt{35}}{245}$
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0

continued ...

Table 8

No.	multipole	matrix									
480	$\mathbb{Q}_{2,1}^{(1,1;a)}$	0	$-\frac{6\sqrt{42}}{35}$	0	0	0	0	$\frac{36\sqrt{7}}{245}$	0	0	0
		0	0	0	0	0	0	0	$\frac{4\sqrt{21}}{49}$	0	0
		0	0	0	$\frac{6\sqrt{42}}{35}$	0	0	0	0	$\frac{4\sqrt{42}}{245}$	0
		0	0	0	0	0	0	0	0	0	$-\frac{12\sqrt{70}}{245}$
		$-\frac{12\sqrt{70}}{245}$	0	0	0	0	$\frac{9\sqrt{70}}{245}$	0	0	0	0
		0	$\frac{4\sqrt{42}}{245}$	0	0	0	0	$\frac{18\sqrt{7}}{245}$	0	0	0
		0	0	$\frac{4\sqrt{21}}{49}$	0	0	0	0	0	0	0
		0	0	0	$\frac{36\sqrt{7}}{245}$	0	0	0	0	$-\frac{18\sqrt{7}}{245}$	0
		0	0	0	0	0	0	0	0	0	$-\frac{9\sqrt{70}}{245}$
		0	0	0	0	0	0	0	0	0	0
481	$\mathbb{Q}_{2,0}^{(1,1;a)}$	$\frac{6\sqrt{21}}{35}$	0	0	0	0	$-\frac{24\sqrt{21}}{245}$	0	0	0	0
		0	$-\frac{6\sqrt{21}}{35}$	0	0	0	0	$-\frac{12\sqrt{14}}{245}$	0	0	0
		0	0	$-\frac{6\sqrt{21}}{35}$	0	0	0	0	$\frac{12\sqrt{14}}{245}$	0	0
		0	0	0	$\frac{6\sqrt{21}}{35}$	0	0	0	0	$\frac{24\sqrt{21}}{245}$	0
		0	0	0	0	$-\frac{3\sqrt{21}}{49}$	0	0	0	0	0
		$-\frac{24\sqrt{21}}{245}$	0	0	0	0	$\frac{3\sqrt{21}}{245}$	0	0	0	0
		0	$-\frac{12\sqrt{14}}{245}$	0	0	0	0	$\frac{12\sqrt{21}}{245}$	0	0	0
		0	0	$\frac{12\sqrt{14}}{245}$	0	0	0	0	$\frac{12\sqrt{21}}{245}$	0	0
		0	0	0	$\frac{24\sqrt{21}}{245}$	0	0	0	0	$\frac{3\sqrt{21}}{245}$	0
		0	0	0	0	0	0	0	0	0	$-\frac{3\sqrt{21}}{49}$

continued ...

Table 8

No.	multipole	matrix									
482	$\mathbb{Q}_{2,-1}^{(1,1;a)}$	0	0	0	0	$\frac{12\sqrt{70}}{245}$	0	0	0	0	0
		$\frac{6\sqrt{42}}{35}$	0	0	0	0	$-\frac{4\sqrt{42}}{245}$	0	0	0	0
		0	0	0	0	0	0	$-\frac{4\sqrt{21}}{49}$	0	0	0
		0	0	$-\frac{6\sqrt{42}}{35}$	0	0	0	0	$-\frac{36\sqrt{7}}{245}$	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{9\sqrt{70}}{245}$	0	0	0	0	0
		$-\frac{36\sqrt{7}}{245}$	0	0	0	0	$-\frac{18\sqrt{7}}{245}$	0	0	0	0
		0	$-\frac{4\sqrt{21}}{49}$	0	0	0	0	0	0	0	0
		0	0	$-\frac{4\sqrt{42}}{245}$	0	0	0	0	$\frac{18\sqrt{7}}{245}$	0	0
		0	0	0	$\frac{12\sqrt{70}}{245}$	0	0	0	0	$\frac{9\sqrt{70}}{245}$	0
483	$\mathbb{Q}_{2,-2}^{(1,1;a)}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{8\sqrt{210}}{245}$	0	0	0	0	0
		$\frac{6\sqrt{42}}{35}$	0	0	0	0	$\frac{16\sqrt{42}}{245}$	0	0	0	0
		0	$\frac{6\sqrt{42}}{35}$	0	0	0	0	$\frac{24\sqrt{7}}{245}$	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{9\sqrt{35}}{245}$	0	0	0	0	0
		$-\frac{24\sqrt{7}}{245}$	0	0	0	0	$-\frac{27\sqrt{7}}{245}$	0	0	0	0
		0	$-\frac{16\sqrt{42}}{245}$	0	0	0	0	$-\frac{27\sqrt{7}}{245}$	0	0	0
		0	0	$-\frac{8\sqrt{210}}{245}$	0	0	0	0	$-\frac{9\sqrt{35}}{245}$	0	0

continued ...

Table 8

No.	multipole	matrix									
484	$\mathbb{G}_{1,1}^{(1,0;a)}$	0	0	0	0	0	0	$\frac{\sqrt{2}i}{2}$	0	0	0
		0	0	0	0	0	0	0	$\frac{\sqrt{6}i}{2}$	0	0
		0	0	0	0	0	0	0	0	$\sqrt{3}i$	0
		0	0	0	0	0	0	0	0	0	$\sqrt{5}i$
		$\sqrt{5}i$	0	0	0	0	0	0	0	0	0
		0	$\sqrt{3}i$	0	0	0	0	0	0	0	0
		0	0	$\frac{\sqrt{6}i}{2}$	0	0	0	0	0	0	0
		0	0	0	$\frac{\sqrt{2}i}{2}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
485	$\mathbb{G}_{1,0}^{(1,0;a)}$	0	0	0	0	0	$-\sqrt{2}i$	0	0	0	0
		0	0	0	0	0	0	$-\sqrt{3}i$	0	0	0
		0	0	0	0	0	0	0	$-\sqrt{3}i$	0	0
		0	0	0	0	0	0	0	0	$-\sqrt{2}i$	0
		0	0	0	0	0	0	0	0	0	0
		$\sqrt{2}i$	0	0	0	0	0	0	0	0	0
		0	$\sqrt{3}i$	0	0	0	0	0	0	0	0
		0	0	$\sqrt{3}i$	0	0	0	0	0	0	0
		0	0	0	$\sqrt{2}i$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0

continued ...

Table 8

No.	multipole	matrix									
486	$\mathbb{G}_{1,-1}^{(1,0;a)}$	0	0	0	0	$\sqrt{5}i$	0	0	0	0	0
		0	0	0	0	0	$\sqrt{3}i$	0	0	0	0
		0	0	0	0	0	0	$\frac{\sqrt{6}i}{2}$	0	0	0
		0	0	0	0	0	0	0	$\frac{\sqrt{2}i}{2}$	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		$\frac{\sqrt{2}i}{2}$	0	0	0	0	0	0	0	0	0
		0	$\frac{\sqrt{6}i}{2}$	0	0	0	0	0	0	0	0
		0	0	$\sqrt{3}i$	0	0	0	0	0	0	0
		0	0	0	$\sqrt{5}i$	0	0	0	0	0	0
487	$\mathbb{G}_{3,3}^{(1,0;a)}$	0	0	0	0	0	0	0	0	$-\frac{3\sqrt{15}i}{14}$	0
		0	0	0	0	0	0	0	0	0	$-\frac{15i}{14}$
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	$-\frac{15i}{14}$	0	0	0	0	0	0	0
		0	0	0	$-\frac{3\sqrt{15}i}{14}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0

continued ...

Table 8

No.	multipole	matrix									
488	$\mathbb{G}_{3,2}^{(1,0;a)}$	0	0	0	0	0	0	0	$\frac{3\sqrt{5}i}{7}$	0	0
		0	0	0	0	0	0	0	0	$\frac{\sqrt{30}i}{14}$	0
		0	0	0	0	0	0	0	0	0	$-\frac{5\sqrt{6}i}{14}$
		0	0	0	0	0	0	0	0	0	0
		0	$\frac{5\sqrt{6}i}{14}$	0	0	0	0	0	0	0	0
		0	0	$-\frac{\sqrt{30}i}{14}$	0	0	0	0	0	0	0
		0	0	0	$-\frac{3\sqrt{5}i}{7}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
489	$\mathbb{G}_{3,1}^{(1,0;a)}$	0	0	0	0	0	0	$-\frac{9\sqrt{2}i}{14}$	0	0	0
		0	0	0	0	0	0	0	$\frac{\sqrt{6}i}{14}$	0	0
		0	0	0	0	0	0	0	0	$\frac{\sqrt{3}i}{2}$	0
		0	0	0	0	0	0	0	0	0	$-\frac{3\sqrt{5}i}{14}$
		$-\frac{3\sqrt{5}i}{14}$	0	0	0	0	0	0	0	0	0
		0	$\frac{\sqrt{3}i}{2}$	0	0	0	0	0	0	0	0
		0	0	$\frac{\sqrt{6}i}{14}$	0	0	0	0	0	0	0
		0	0	0	$-\frac{9\sqrt{2}i}{14}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0

continued ...

Table 8

No.	multipole	matrix									
490	$\mathbb{G}_{3,0}^{(1,0;a)}$	0	0	0	0	0	$\frac{3\sqrt{3}i}{7}$	0	0	0	0
		0	0	0	0	0	0	$-\frac{3\sqrt{2}i}{7}$	0	0	0
		0	0	0	0	0	0	0	$-\frac{3\sqrt{2}i}{7}$	0	0
		0	0	0	0	0	0	0	0	$\frac{3\sqrt{3}i}{7}$	0
		0	0	0	0	0	0	0	0	0	0
		$-\frac{3\sqrt{3}i}{7}$	0	0	0	0	0	0	0	0	0
		0	$\frac{3\sqrt{2}i}{7}$	0	0	0	0	0	0	0	0
		0	0	$\frac{3\sqrt{2}i}{7}$	0	0	0	0	0	0	0
		0	0	0	$-\frac{3\sqrt{3}i}{7}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
491	$\mathbb{G}_{3,-1}^{(1,0;a)}$	0	0	0	0	$-\frac{3\sqrt{5}i}{14}$	0	0	0	0	
		0	0	0	0	0	$\frac{\sqrt{3}i}{2}$	0	0	0	
		0	0	0	0	0	0	$\frac{\sqrt{6}i}{14}$	0	0	
		0	0	0	0	0	0	0	$-\frac{9\sqrt{2}i}{14}$	0	
		0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		$-\frac{9\sqrt{2}i}{14}$	0	0	0	0	0	0	0	0	
		0	$\frac{\sqrt{6}i}{14}$	0	0	0	0	0	0	0	
		0	0	$\frac{\sqrt{3}i}{2}$	0	0	0	0	0	0	
		0	0	0	$-\frac{3\sqrt{5}i}{14}$	0	0	0	0	0	

continued ...

Table 8

No.	multipole	matrix									
492	$\mathbb{G}_{3,-2}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{5\sqrt{6}i}{14}$	0	0	0	0	0
		0	0	0	0	0	$\frac{\sqrt{30}i}{14}$	0	0	0	0
		0	0	0	0	0	0	$\frac{3\sqrt{5}i}{7}$	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		$-\frac{3\sqrt{5}i}{7}$	0	0	0	0	0	0	0	0	0
		0	$-\frac{\sqrt{30}i}{14}$	0	0	0	0	0	0	0	0
		0	0	$\frac{5\sqrt{6}i}{14}$	0	0	0	0	0	0	0
493	$\mathbb{G}_{3,-3}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		0	0	0	0	$-\frac{15i}{14}$	0	0	0	0	
		0	0	0	0	0	$-\frac{3\sqrt{15}i}{14}$	0	0	0	
		0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		$-\frac{3\sqrt{15}i}{14}$	0	0	0	0	0	0	0	0	
		0	$-\frac{15i}{14}$	0	0	0	0	0	0	0	

continued ...

Table 8

No.	multipole	matrix										
494	$\mathbb{T}_{2,2}^{(1,0;a)}$	0	0	0	0	0	0	0	$\frac{\sqrt{2}i}{7}$	0	0	
		0	0	0	0	0	0	0	0	$\frac{4\sqrt{3}i}{21}$	0	
		0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{15}i}{21}$	
		0	0	0	0	0	0	0	0	0	0	
		0	$\frac{2\sqrt{15}i}{21}$	0	0	0	0	0	0	0	0	0
		0	0	$\frac{4\sqrt{3}i}{21}$	0	0	0	0	0	0	0	0
		0	0	0	$\frac{\sqrt{2}i}{7}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0
495	$\mathbb{T}_{2,1}^{(1,0;a)}$	0	0	0	0	0	0	$-\frac{3\sqrt{2}i}{14}$	0	0	0	
		0	0	0	0	0	0	0	$-\frac{5\sqrt{6}i}{42}$	0	0	
		0	0	0	0	0	0	0	0	$-\frac{\sqrt{3}i}{21}$	0	
		0	0	0	0	0	0	0	0	0	$\frac{\sqrt{5}i}{7}$	
		$-\frac{\sqrt{5}i}{7}$	0	0	0	0	0	0	0	0	0	
		0	$\frac{\sqrt{3}i}{21}$	0	0	0	0	0	0	0	0	
		0	0	$\frac{5\sqrt{6}i}{42}$	0	0	0	0	0	0	0	
		0	0	0	$\frac{3\sqrt{2}i}{14}$	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	

continued ...

Table 8

No.	multipole	matrix
496	$\mathbb{T}_{2,0}^{(1,0;a)}$	0 0 0 0 0 $\frac{\sqrt{6}i}{7}$ 0 0 0 0
		0 0 0 0 0 0 $\frac{i}{7}$ 0 0 0
		0 0 0 0 0 0 0 $-\frac{i}{7}$ 0 0
		0 0 0 0 0 0 0 0 $-\frac{\sqrt{6}i}{7}$ 0
		0 0 0 0 0 0 0 0 0 0
		$-\frac{\sqrt{6}i}{7}$ 0 0 0 0 0 0 0 0 0
		0 $-\frac{i}{7}$ 0 0 0 0 0 0 0 0
		0 0 $\frac{i}{7}$ 0 0 0 0 0 0 0
		0 0 0 $\frac{\sqrt{6}i}{7}$ 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0
497	$\mathbb{T}_{2,-1}^{(1,0;a)}$	0 0 0 0 $-\frac{\sqrt{5}i}{7}$ 0 0 0 0 0
		0 0 0 0 0 $\frac{\sqrt{3}i}{21}$ 0 0 0 0
		0 0 0 0 0 0 $\frac{5\sqrt{6}i}{42}$ 0 0 0
		0 0 0 0 0 0 0 $\frac{3\sqrt{2}i}{14}$ 0 0
		0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0
		$-\frac{3\sqrt{2}i}{14}$ 0 0 0 0 0 0 0 0 0
		0 $-\frac{5\sqrt{6}i}{42}$ 0 0 0 0 0 0 0 0
		0 0 $-\frac{\sqrt{3}i}{21}$ 0 0 0 0 0 0 0
		0 0 0 $\frac{\sqrt{5}i}{7}$ 0 0 0 0 0 0

continued ...

Table 8

No.	multipole	matrix									
498	$\mathbb{T}_{2,-2}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{2\sqrt{15}i}{21}$	0	0	0	0	0
		0	0	0	0	0	$-\frac{4\sqrt{3}i}{21}$	0	0	0	0
		0	0	0	0	0	0	$-\frac{\sqrt{2}i}{7}$	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		$-\frac{\sqrt{2}i}{7}$	0	0	0	0	0	0	0	0	0
		0	$-\frac{4\sqrt{3}i}{21}$	0	0	0	0	0	0	0	0
		0	0	$-\frac{2\sqrt{15}i}{21}$	0	0	0	0	0	0	0
499	$\mathbb{T}_{4,4}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{70}i}{21}$
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	$-\frac{\sqrt{70}i}{21}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0

continued ...

Table 8

No.	multipole	matrix										
500	$\mathbb{T}_{4,3}^{(1,0;a)}$	0	0	0	0	0	0	0	0	$\frac{5\sqrt{7}i}{42}$	0	
		0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{105}i}{42}$	
		0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	
		0	0	$\frac{\sqrt{105}i}{42}$	0	0	0	0	0	0	0	0
		0	0	0	$-\frac{5\sqrt{7}i}{42}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0
501	$\mathbb{T}_{4,2}^{(1,0;a)}$	0	0	0	0	0	0	0	$-\frac{5i}{21}$	0	0	
		0	0	0	0	0	0	0	0	$\frac{5\sqrt{6}i}{42}$	0	
		0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{30}i}{42}$	
		0	0	0	0	0	0	0	0	0	0	
		0	$-\frac{\sqrt{30}i}{42}$	0	0	0	0	0	0	0	0	0
		0	0	$\frac{5\sqrt{6}i}{42}$	0	0	0	0	0	0	0	0
		0	0	0	$-\frac{5i}{21}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 8

No.	multipole	matrix									
502	$\mathbb{T}_{4,1}^{(1,0;a)}$	0	0	0	0	0	0	$\frac{5\sqrt{2}i}{42}$	0	0	0
		0	0	0	0	0	0	0	$-\frac{5\sqrt{6}i}{42}$	0	0
		0	0	0	0	0	0	0	0	$\frac{5\sqrt{3}i}{42}$	0
		0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{5}i}{42}$
		$\frac{\sqrt{5}i}{42}$	0	0	0	0	0	0	0	0	0
		0	$-\frac{5\sqrt{3}i}{42}$	0	0	0	0	0	0	0	0
		0	0	$\frac{5\sqrt{6}i}{42}$	0	0	0	0	0	0	0
		0	0	0	$-\frac{5\sqrt{2}i}{42}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
503	$\mathbb{T}_{4,0}^{(1,0;a)}$	0	0	0	0	0	$-\frac{\sqrt{5}i}{21}$	0	0	0	0
		0	0	0	0	0	0	$\frac{\sqrt{30}i}{21}$	0	0	0
		0	0	0	0	0	0	0	$-\frac{\sqrt{30}i}{21}$	0	0
		0	0	0	0	0	0	0	0	$\frac{\sqrt{5}i}{21}$	0
		0	0	0	0	0	0	0	0	0	0
		$\frac{\sqrt{5}i}{21}$	0	0	0	0	0	0	0	0	0
		0	$-\frac{\sqrt{30}i}{21}$	0	0	0	0	0	0	0	0
		0	0	$\frac{\sqrt{30}i}{21}$	0	0	0	0	0	0	0
		0	0	0	$-\frac{\sqrt{5}i}{21}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0

continued ...

Table 8

No.	multipole	matrix									
504	$\mathbb{T}_{4,-1}^{(1,0;a)}$	0	0	0	0	$\frac{\sqrt{5}i}{42}$	0	0	0	0	0
		0	0	0	0	0	$-\frac{5\sqrt{3}i}{42}$	0	0	0	0
		0	0	0	0	0	0	$\frac{5\sqrt{6}i}{42}$	0	0	0
		0	0	0	0	0	0	0	$-\frac{5\sqrt{2}i}{42}$	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		$\frac{5\sqrt{2}i}{42}$	0	0	0	0	0	0	0	0	0
		0	$-\frac{5\sqrt{6}i}{42}$	0	0	0	0	0	0	0	0
		0	0	$\frac{5\sqrt{3}i}{42}$	0	0	0	0	0	0	0
		0	0	0	$-\frac{\sqrt{5}i}{42}$	0	0	0	0	0	0
505	$\mathbb{T}_{4,-2}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	
		0	0	0	0	$\frac{\sqrt{30}i}{42}$	0	0	0	0	
		0	0	0	0	0	$-\frac{5\sqrt{6}i}{42}$	0	0	0	
		0	0	0	0	0	0	$\frac{5i}{21}$	0	0	
		0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		$\frac{5i}{21}$	0	0	0	0	0	0	0	0	
		0	$-\frac{5\sqrt{6}i}{42}$	0	0	0	0	0	0	0	
		0	0	$\frac{\sqrt{30}i}{42}$	0	0	0	0	0	0	

continued ...

Table 8

No.	multipole	matrix									
506	$\mathbb{T}_{4,-3}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{\sqrt{105}i}{42}$	0	0	0	0	0
		0	0	0	0	0	$-\frac{5\sqrt{7}i}{42}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		$\frac{5\sqrt{7}i}{42}$	0	0	0	0	0	0	0	0	0
		0	$-\frac{\sqrt{105}i}{42}$	0	0	0	0	0	0	0	0
507	$\mathbb{T}_{4,-4}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		0	0	0	0	$\frac{\sqrt{70}i}{21}$	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		$\frac{\sqrt{70}i}{21}$	0	0	0	0	0	0	0	0	

continued ...

Table 8

No.	multipole	matrix									
508	$M_{1,1}^{(a)}$	0	$-\frac{3\sqrt{6}}{5}$	0	0	0	0	$-\frac{1}{5}$	0	0	0
		0	0	$-\frac{6\sqrt{2}}{5}$	0	0	0	0	$-\frac{\sqrt{3}}{5}$	0	0
		0	0	0	$-\frac{3\sqrt{6}}{5}$	0	0	0	0	$-\frac{\sqrt{6}}{5}$	0
		0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{10}}{5}$
		$\frac{\sqrt{10}}{5}$	0	0	0	0	$-\frac{2\sqrt{10}}{5}$	0	0	0	0
		0	$\frac{\sqrt{6}}{5}$	0	0	0	0	$-\frac{2}{5}$	0	0	0
		0	0	$\frac{\sqrt{3}}{5}$	0	0	0	0	$-\frac{6\sqrt{2}}{5}$	0	0
		0	0	0	$\frac{1}{5}$	0	0	0	0	$-\frac{2}{5}$	0
		0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{10}}{5}$
		0	0	0	0	0	0	0	0	0	0
509	$M_{1,0}^{(a)}$	$\frac{9}{5}$	0	0	0	0	$\frac{2}{5}$	0	0	0	0
		0	$\frac{3}{5}$	0	0	0	0	$\frac{\sqrt{6}}{5}$	0	0	0
		0	0	$-\frac{3}{5}$	0	0	0	0	$\frac{\sqrt{6}}{5}$	0	0
		0	0	0	$-\frac{9}{5}$	0	0	0	0	$\frac{2}{5}$	0
		0	0	0	0	2	0	0	0	0	0
		$\frac{2}{5}$	0	0	0	0	$\frac{6}{5}$	0	0	0	0
		0	$\frac{\sqrt{6}}{5}$	0	0	0	0	$\frac{2}{5}$	0	0	0
		0	0	$\frac{\sqrt{6}}{5}$	0	0	0	0	$-\frac{2}{5}$	0	0
		0	0	0	$\frac{2}{5}$	0	0	0	0	$-\frac{6}{5}$	0
		0	0	0	0	0	0	0	0	0	-2

continued ...

Table 8

No.	multipole	matrix									
510	$M_{1,-1}^{(a)}$	0	0	0	0	$-\frac{\sqrt{10}}{5}$	0	0	0	0	0
		$\frac{3\sqrt{6}}{5}$	0	0	0	0	$-\frac{\sqrt{6}}{5}$	0	0	0	0
		0	$\frac{6\sqrt{2}}{5}$	0	0	0	0	$-\frac{\sqrt{3}}{5}$	0	0	0
		0	0	$\frac{3\sqrt{6}}{5}$	0	0	0	0	$-\frac{1}{5}$	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{2\sqrt{10}}{5}$	0	0	0	0	0
		$\frac{1}{5}$	0	0	0	0	$\frac{8}{5}$	0	0	0	0
		0	$\frac{\sqrt{3}}{5}$	0	0	0	0	$\frac{6\sqrt{2}}{5}$	0	0	0
		0	0	$\frac{\sqrt{6}}{5}$	0	0	0	0	$\frac{8}{5}$	0	0
		0	0	0	$\frac{\sqrt{10}}{5}$	0	0	0	0	$\frac{2\sqrt{10}}{5}$	0
511	$M_{3,3}^{(a)}$	0	0	0	$\frac{12\sqrt{5}}{35}$	0	0	0	0	$\frac{9\sqrt{5}}{35}$	0
		0	0	0	0	0	0	0	0	0	$\frac{3\sqrt{3}}{7}$
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	$-\frac{3\sqrt{3}}{7}$	0	0	0	0	$\frac{3\sqrt{2}}{7}$	0	0
		0	0	0	$-\frac{9\sqrt{5}}{35}$	0	0	0	0	$\frac{12\sqrt{5}}{35}$	0
		0	0	0	0	0	0	0	0	0	$\frac{3\sqrt{2}}{7}$
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0

continued ...

Table 8

No.	multipole	matrix									
512	$M_{3,2}^{(a)}$	0	0	$-\frac{6\sqrt{10}}{35}$	0	0	0	0	$-\frac{6\sqrt{15}}{35}$	0	0
		0	0	0	$\frac{6\sqrt{10}}{35}$	0	0	0	0	$-\frac{3\sqrt{10}}{35}$	0
		0	0	0	0	0	0	0	0	0	$\frac{3\sqrt{2}}{7}$
		0	0	0	0	0	0	0	0	0	0
		0	$\frac{3\sqrt{2}}{7}$	0	0	0	0	$-\frac{3\sqrt{3}}{7}$	0	0	0
		0	0	$-\frac{3\sqrt{10}}{35}$	0	0	0	0	$-\frac{3\sqrt{15}}{35}$	0	0
		0	0	0	$-\frac{6\sqrt{15}}{35}$	0	0	0	0	$\frac{3\sqrt{15}}{35}$	0
		0	0	0	0	0	0	0	0	0	$\frac{3\sqrt{3}}{7}$
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
513	$M_{3,1}^{(a)}$	0	$\frac{12}{35}$	0	0	0	0	$\frac{9\sqrt{6}}{35}$	0	0	0
		0	0	$-\frac{12\sqrt{3}}{35}$	0	0	0	0	$-\frac{3\sqrt{2}}{35}$	0	0
		0	0	0	$\frac{12}{35}$	0	0	0	0	$-\frac{3}{5}$	0
		0	0	0	0	0	0	0	0	0	$\frac{3\sqrt{15}}{35}$
		$-\frac{3\sqrt{15}}{35}$	0	0	0	0	$\frac{6\sqrt{15}}{35}$	0	0	0	0
		0	$\frac{3}{5}$	0	0	0	0	$-\frac{3\sqrt{6}}{35}$	0	0	0
		0	0	$\frac{3\sqrt{2}}{35}$	0	0	0	0	$-\frac{12\sqrt{3}}{35}$	0	0
		0	0	0	$-\frac{9\sqrt{6}}{35}$	0	0	0	0	$-\frac{3\sqrt{6}}{35}$	0
		0	0	0	0	0	0	0	0	0	$\frac{6\sqrt{15}}{35}$
		0	0	0	0	0	0	0	0	0	0

continued ...

Table 8

No.	multipole	matrix									
514	$M_{3,0}^{(a)}$	$-\frac{6}{35}$	0	0	0	0	$-\frac{18}{35}$	0	0	0	0
		0	$\frac{18}{35}$	0	0	0	0	$\frac{6\sqrt{6}}{35}$	0	0	0
		0	0	$-\frac{18}{35}$	0	0	0	0	$\frac{6\sqrt{6}}{35}$	0	0
		0	0	0	$\frac{6}{35}$	0	0	0	0	$-\frac{18}{35}$	0
		0	0	0	0	$-\frac{3}{7}$	0	0	0	0	0
		$-\frac{18}{35}$	0	0	0	0	$\frac{3}{5}$	0	0	0	0
		0	$\frac{6\sqrt{6}}{35}$	0	0	0	0	$\frac{12}{35}$	0	0	0
		0	0	$\frac{6\sqrt{6}}{35}$	0	0	0	0	$-\frac{12}{35}$	0	0
		0	0	0	$-\frac{18}{35}$	0	0	0	0	$-\frac{3}{5}$	0
		0	0	0	0	0	0	0	0	0	$\frac{3}{7}$
515	$M_{3,-1}^{(a)}$	0	0	0	0	$\frac{3\sqrt{15}}{35}$	0	0	0	0	0
		$-\frac{12}{35}$	0	0	0	0	$-\frac{3}{5}$	0	0	0	0
		0	$\frac{12\sqrt{3}}{35}$	0	0	0	0	$-\frac{3\sqrt{2}}{35}$	0	0	0
		0	0	$-\frac{12}{35}$	0	0	0	0	$\frac{9\sqrt{6}}{35}$	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{6\sqrt{15}}{35}$	0	0	0	0	0
		$-\frac{9\sqrt{6}}{35}$	0	0	0	0	$\frac{3\sqrt{6}}{35}$	0	0	0	0
		0	$\frac{3\sqrt{2}}{35}$	0	0	0	0	$\frac{12\sqrt{3}}{35}$	0	0	0
		0	0	$\frac{3}{5}$	0	0	0	0	$\frac{3\sqrt{6}}{35}$	0	0
		0	0	0	$-\frac{3\sqrt{15}}{35}$	0	0	0	0	$-\frac{6\sqrt{15}}{35}$	0

continued ...

Table 8

No.	multipole	matrix									
516	$M_{3,-2}^{(a)}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{3\sqrt{2}}{7}$	0	0	0	0	0
		$-\frac{6\sqrt{10}}{35}$	0	0	0	0	$-\frac{3\sqrt{10}}{35}$	0	0	0	0
		0	$\frac{6\sqrt{10}}{35}$	0	0	0	0	$-\frac{6\sqrt{15}}{35}$	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{3\sqrt{3}}{7}$	0	0	0	0	0
		$-\frac{6\sqrt{15}}{35}$	0	0	0	0	$-\frac{3\sqrt{15}}{35}$	0	0	0	0
		0	$-\frac{3\sqrt{10}}{35}$	0	0	0	0	$\frac{3\sqrt{15}}{35}$	0	0	0
		0	0	$\frac{3\sqrt{2}}{7}$	0	0	0	0	$\frac{3\sqrt{3}}{7}$	0	0
517	$M_{3,-3}^{(a)}$	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		0	0	0	0	$\frac{3\sqrt{3}}{7}$	0	0	0	0	
		$-\frac{12\sqrt{5}}{35}$	0	0	0	0	$\frac{9\sqrt{5}}{35}$	0	0	0	
		0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		0	0	0	0	$-\frac{3\sqrt{2}}{7}$	0	0	0	0	
		$-\frac{9\sqrt{5}}{35}$	0	0	0	0	$-\frac{12\sqrt{5}}{35}$	0	0	0	
		0	$-\frac{3\sqrt{3}}{7}$	0	0	0	0	$-\frac{3\sqrt{2}}{7}$	0	0	0

continued ...

Table 8

No.	multipole	matrix									
518	$M_{1,1}^{(1,-1;a)}$	0	$\frac{\sqrt{6}}{5}$	0	0	0	0	$\frac{2}{5}$	0	0	0
		0	0	$\frac{2\sqrt{2}}{5}$	0	0	0	0	$\frac{2\sqrt{3}}{5}$	0	0
		0	0	0	$\frac{\sqrt{6}}{5}$	0	0	0	0	$\frac{2\sqrt{6}}{5}$	0
		0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{10}}{5}$
		$-\frac{2\sqrt{10}}{5}$	0	0	0	0	$-\frac{\sqrt{10}}{5}$	0	0	0	0
		0	$-\frac{2\sqrt{6}}{5}$	0	0	0	0	$-\frac{4}{5}$	0	0	0
		0	0	$-\frac{2\sqrt{3}}{5}$	0	0	0	0	$-\frac{3\sqrt{2}}{5}$	0	0
		0	0	0	$-\frac{2}{5}$	0	0	0	0	$-\frac{4}{5}$	0
		0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{10}}{5}$
		0	0	0	0	0	0	0	0	0	0
519	$M_{1,0}^{(1,-1;a)}$	$-\frac{3}{5}$	0	0	0	0	$-\frac{4}{5}$	0	0	0	0
		0	$-\frac{1}{5}$	0	0	0	0	$-\frac{2\sqrt{6}}{5}$	0	0	0
		0	0	$\frac{1}{5}$	0	0	0	0	$-\frac{2\sqrt{6}}{5}$	0	0
		0	0	0	$\frac{3}{5}$	0	0	0	0	$-\frac{4}{5}$	0
		0	0	0	0	1	0	0	0	0	0
		$-\frac{4}{5}$	0	0	0	0	$\frac{3}{5}$	0	0	0	0
		0	$-\frac{2\sqrt{6}}{5}$	0	0	0	0	$\frac{1}{5}$	0	0	0
		0	0	$-\frac{2\sqrt{6}}{5}$	0	0	0	0	$-\frac{1}{5}$	0	0
		0	0	0	$-\frac{4}{5}$	0	0	0	0	$-\frac{3}{5}$	0
		0	0	0	0	0	0	0	0	0	-1

continued ...

Table 8

No.	multipole	matrix									
520	$M_{1,-1}^{(1,-1;a)}$	0	0	0	0	$\frac{2\sqrt{10}}{5}$	0	0	0	0	0
		$-\frac{\sqrt{6}}{5}$	0	0	0	0	$\frac{2\sqrt{6}}{5}$	0	0	0	0
		0	$-\frac{2\sqrt{2}}{5}$	0	0	0	0	$\frac{2\sqrt{3}}{5}$	0	0	0
		0	0	$-\frac{\sqrt{6}}{5}$	0	0	0	0	$\frac{2}{5}$	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{\sqrt{10}}{5}$	0	0	0	0	0
		$-\frac{2}{5}$	0	0	0	0	$\frac{4}{5}$	0	0	0	0
		0	$-\frac{2\sqrt{3}}{5}$	0	0	0	0	$\frac{3\sqrt{2}}{5}$	0	0	0
		0	0	$-\frac{2\sqrt{6}}{5}$	0	0	0	0	$\frac{4}{5}$	0	0
		0	0	0	$-\frac{2\sqrt{10}}{5}$	0	0	0	0	$\frac{\sqrt{10}}{5}$	0
521	$M_{3,3}^{(1,-1;a)}$	0	0	0	$-\frac{2\sqrt{3}}{35}$	0	0	0	0	$-\frac{4\sqrt{3}}{35}$	0
		0	0	0	0	0	0	0	0	0	$-\frac{4\sqrt{5}}{35}$
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	$\frac{4\sqrt{5}}{35}$	0	0	0	0	$\frac{2\sqrt{30}}{35}$	0	0
		0	0	0	$\frac{4\sqrt{3}}{35}$	0	0	0	0	$\frac{8\sqrt{3}}{35}$	0
		0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{30}}{35}$
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0

continued ...

Table 8

No.	multipole	matrix									
522	$M_{3,2}^{(1,-1;a)}$	0	0	$\frac{\sqrt{6}}{35}$	0	0	0	0	$\frac{8}{35}$	0	0
		0	0	0	$-\frac{\sqrt{6}}{35}$	0	0	0	0	$\frac{4\sqrt{6}}{105}$	0
		0	0	0	0	0	0	0	0	0	$-\frac{4\sqrt{30}}{105}$
		0	0	0	0	0	0	0	0	0	0
		0	$-\frac{4\sqrt{30}}{105}$	0	0	0	0	$-\frac{6\sqrt{5}}{35}$	0	0	0
		0	0	$\frac{4\sqrt{6}}{105}$	0	0	0	0	$-\frac{6}{35}$	0	0
		0	0	0	$\frac{8}{35}$	0	0	0	0	$\frac{6}{35}$	0
		0	0	0	0	0	0	0	0	0	$\frac{6\sqrt{5}}{35}$
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
523	$M_{3,1}^{(1,-1;a)}$	0	$-\frac{2\sqrt{15}}{175}$	0	0	0	0	$-\frac{12\sqrt{10}}{175}$	0	0	0
		0	0	$\frac{6\sqrt{5}}{175}$	0	0	0	0	$\frac{4\sqrt{30}}{525}$	0	0
		0	0	0	$-\frac{2\sqrt{15}}{175}$	0	0	0	0	$\frac{4\sqrt{15}}{75}$	0
		0	0	0	0	0	0	0	0	0	$-\frac{4}{35}$
		$\frac{4}{35}$	0	0	0	0	$\frac{12}{35}$	0	0	0	0
		0	$-\frac{4\sqrt{15}}{75}$	0	0	0	0	$-\frac{6\sqrt{10}}{175}$	0	0	0
		0	0	$-\frac{4\sqrt{30}}{525}$	0	0	0	0	$-\frac{24\sqrt{5}}{175}$	0	0
		0	0	0	$\frac{12\sqrt{10}}{175}$	0	0	0	0	$-\frac{6\sqrt{10}}{175}$	0
		0	0	0	0	0	0	0	0	0	$\frac{12}{35}$
		0	0	0	0	0	0	0	0	0	0

continued ...

Table 8

No.	multipole	matrix									
524	$\mathbb{M}_{3,0}^{(1,-1;a)}$	$\frac{\sqrt{15}}{175}$	0	0	0	0	$\frac{8\sqrt{15}}{175}$	0	0	0	0
		0	$-\frac{3\sqrt{15}}{175}$	0	0	0	0	$-\frac{8\sqrt{10}}{175}$	0	0	0
		0	0	$\frac{3\sqrt{15}}{175}$	0	0	0	0	$-\frac{8\sqrt{10}}{175}$	0	0
		0	0	0	$-\frac{\sqrt{15}}{175}$	0	0	0	0	$\frac{8\sqrt{15}}{175}$	0
		0	0	0	0	$-\frac{2\sqrt{15}}{35}$	0	0	0	0	0
		$\frac{8\sqrt{15}}{175}$	0	0	0	0	$\frac{2\sqrt{15}}{25}$	0	0	0	0
		0	$-\frac{8\sqrt{10}}{175}$	0	0	0	0	$\frac{8\sqrt{15}}{175}$	0	0	0
		0	0	$-\frac{8\sqrt{10}}{175}$	0	0	0	0	$-\frac{8\sqrt{15}}{175}$	0	0
		0	0	0	$\frac{8\sqrt{15}}{175}$	0	0	0	0	$-\frac{2\sqrt{15}}{25}$	0
		0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{15}}{35}$
525	$\mathbb{M}_{3,-1}^{(1,-1;a)}$	0	0	0	0	$-\frac{4}{35}$	0	0	0	0	
		$\frac{2\sqrt{15}}{175}$	0	0	0	0	$\frac{4\sqrt{15}}{75}$	0	0	0	0
		0	$-\frac{6\sqrt{5}}{175}$	0	0	0	0	$\frac{4\sqrt{30}}{525}$	0	0	0
		0	0	$\frac{2\sqrt{15}}{175}$	0	0	0	0	$-\frac{12\sqrt{10}}{175}$	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{12}{35}$	0	0	0	0	0
		$\frac{12\sqrt{10}}{175}$	0	0	0	0	$\frac{6\sqrt{10}}{175}$	0	0	0	0
		0	$-\frac{4\sqrt{30}}{525}$	0	0	0	0	$\frac{24\sqrt{5}}{175}$	0	0	0
		0	0	$-\frac{4\sqrt{15}}{75}$	0	0	0	0	$\frac{6\sqrt{10}}{175}$	0	0
		0	0	0	$\frac{4}{35}$	0	0	0	0	$-\frac{12}{35}$	0

continued ...

Table 8

No.	multipole	matrix									
526	$M_{3,-2}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{4\sqrt{30}}{105}$	0	0	0	0	0
		$\frac{\sqrt{6}}{35}$	0	0	0	0	$\frac{4\sqrt{6}}{105}$	0	0	0	0
		0	$-\frac{\sqrt{6}}{35}$	0	0	0	0	$\frac{8}{35}$	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{6\sqrt{5}}{35}$	0	0	0	0	0
		$\frac{8}{35}$	0	0	0	0	$-\frac{6}{35}$	0	0	0	0
		0	$\frac{4\sqrt{6}}{105}$	0	0	0	0	$\frac{6}{35}$	0	0	0
		0	0	$-\frac{4\sqrt{30}}{105}$	0	0	0	0	$\frac{6\sqrt{5}}{35}$	0	0
527	$M_{3,-3}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		0	0	0	0	$-\frac{4\sqrt{5}}{35}$	0	0	0	0	
		$\frac{2\sqrt{3}}{35}$	0	0	0	0	$-\frac{4\sqrt{3}}{35}$	0	0	0	
		0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		0	0	0	0	$-\frac{2\sqrt{30}}{35}$	0	0	0	0	
		$\frac{4\sqrt{3}}{35}$	0	0	0	0	$-\frac{8\sqrt{3}}{35}$	0	0	0	
		0	$\frac{4\sqrt{5}}{35}$	0	0	0	0	$-\frac{2\sqrt{30}}{35}$	0	0	

continued ...

Table 8

No.	multipole	matrix
528	$M_{5,5}^{(1,-1;a)}$	0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 $-\frac{2\sqrt{35}}{21}$
		0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0
529	$M_{5,4}^{(1,-1;a)}$	0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 $\frac{\sqrt{70}}{21}$
		0 0 0 0 0 0 0 0 0 $-\frac{\sqrt{70}}{21}$
		0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0

continued ...

Table 8

No.	multipole	matrix									
530	$M_{5,3}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	$-\frac{2\sqrt{70}}{63}$	0	0
		0	0	0	0	0	0	0	0	$\frac{10\sqrt{7}}{63}$	0
		0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{70}}{63}$
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
531	$M_{5,2}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	$\frac{\sqrt{105}}{63}$	0	0	0
		0	0	0	0	0	0	0	$-\frac{5\sqrt{21}}{63}$	0	0
		0	0	0	0	0	0	0	0	$\frac{5\sqrt{21}}{63}$	0
		0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{105}}{63}$
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0

continued ...

Table 8

No.	multipole	matrix									
532	$M_{5,1}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$-\frac{\sqrt{30}}{63}$	0	0	0	0
		0	0	0	0	0	0	$\frac{10\sqrt{3}}{63}$	0	0	0
		0	0	0	0	0	0	0	$-\frac{10\sqrt{6}}{63}$	0	0
		0	0	0	0	0	0	0	0	$\frac{10\sqrt{3}}{63}$	0
		0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{30}}{63}$
		0	0	0	0	0	0	0	0	0	0
533	$M_{5,0}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		0	0	0	0	$\frac{\sqrt{5}}{63}$	0	0	0	0	0
		0	0	0	0	0	$-\frac{5\sqrt{5}}{63}$	0	0	0	0
		0	0	0	0	0	0	$\frac{10\sqrt{5}}{63}$	0	0	0
		0	0	0	0	0	0	0	$-\frac{10\sqrt{5}}{63}$	0	0
		0	0	0	0	0	0	0	0	$\frac{5\sqrt{5}}{63}$	0
		0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{5}}{63}$

continued ...

Table 8

No.	multipole	matrix									
534	$M_{5,-1}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{\sqrt{30}}{63}$	0	0	0	0	0
		0	0	0	0	0	$-\frac{10\sqrt{3}}{63}$	0	0	0	0
		0	0	0	0	0	0	$\frac{10\sqrt{6}}{63}$	0	0	0
		0	0	0	0	0	0	0	$-\frac{10\sqrt{3}}{63}$	0	0
		0	0	0	0	0	0	0	0	$\frac{\sqrt{30}}{63}$	0
535	$M_{5,-2}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		0	0	0	0	$\frac{\sqrt{105}}{63}$	0	0	0	0	
		0	0	0	0	0	$-\frac{5\sqrt{21}}{63}$	0	0	0	
		0	0	0	0	0	0	$\frac{5\sqrt{21}}{63}$	0	0	
		0	0	0	0	0	0	0	$-\frac{\sqrt{105}}{63}$	0	

continued ...

Table 8

No.	multipole	matrix									
536	$M_{5,-3}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{2\sqrt{70}}{63}$	0	0	0	0	0
		0	0	0	0	0	$-\frac{10\sqrt{7}}{63}$	0	0	0	0
		0	0	0	0	0	0	$\frac{2\sqrt{70}}{63}$	0	0	0
537	$M_{5,-4}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		0	0	0	0	$\frac{\sqrt{70}}{21}$	0	0	0	0	
		0	0	0	0	0	$-\frac{\sqrt{70}}{21}$	0	0	0	

continued ...

Table 8

No.	multipole	matrix									
538	$M_{5,-5}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$\frac{2\sqrt{35}}{21}$	0	0	0	0
539	$M_{1,1}^{(1,1;a)}$	0	$-\frac{2\sqrt{15}}{25}$	0	0	0	0	$\frac{\sqrt{10}}{50}$	0	0	0
		0	0	$-\frac{4\sqrt{5}}{25}$	0	0	0	0	$\frac{\sqrt{30}}{50}$	0	0
		0	0	0	$-\frac{2\sqrt{15}}{25}$	0	0	0	0	$\frac{\sqrt{15}}{25}$	0
		0	0	0	0	0	0	0	0	0	$\frac{1}{5}$
		$-\frac{1}{5}$	0	0	0	0	0	$\frac{4}{35}$	0	0	0
		0	$-\frac{\sqrt{15}}{25}$	0	0	0	0	$\frac{8\sqrt{10}}{175}$	0	0	0
		0	0	$-\frac{\sqrt{30}}{50}$	0	0	0	0	$\frac{12\sqrt{5}}{175}$	0	0
		0	0	0	$-\frac{\sqrt{10}}{50}$	0	0	0	0	$\frac{8\sqrt{10}}{175}$	0
		0	0	0	0	0	0	0	0	0	$\frac{4}{35}$
		0	0	0	0	0	0	0	0	0	0

continued ...

Table 8

No.	multipole	matrix									
540	$M_{1,0}^{(1,1;a)}$	$\frac{3\sqrt{10}}{25}$	0	0	0	0	$-\frac{\sqrt{10}}{25}$	0	0	0	0
		0	$\frac{\sqrt{10}}{25}$	0	0	0	0	$-\frac{\sqrt{15}}{25}$	0	0	0
		0	0	$-\frac{\sqrt{10}}{25}$	0	0	0	0	$-\frac{\sqrt{15}}{25}$	0	0
		0	0	0	$-\frac{3\sqrt{10}}{25}$	0	0	0	0	$-\frac{\sqrt{10}}{25}$	0
		0	0	0	0	$-\frac{2\sqrt{10}}{35}$	0	0	0	0	0
		$-\frac{\sqrt{10}}{25}$	0	0	0	0	$-\frac{6\sqrt{10}}{175}$	0	0	0	0
		0	$-\frac{\sqrt{15}}{25}$	0	0	0	0	$-\frac{2\sqrt{10}}{175}$	0	0	0
		0	0	$-\frac{\sqrt{15}}{25}$	0	0	0	0	$\frac{2\sqrt{10}}{175}$	0	0
		0	0	0	$-\frac{\sqrt{10}}{25}$	0	0	0	0	$\frac{6\sqrt{10}}{175}$	0
		0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{10}}{35}$
541	$M_{1,-1}^{(1,1;a)}$	0	0	0	0	$\frac{1}{5}$	0	0	0	0	
		$\frac{2\sqrt{15}}{25}$	0	0	0	0	$\frac{\sqrt{15}}{25}$	0	0	0	0
		0	$\frac{4\sqrt{5}}{25}$	0	0	0	0	$\frac{\sqrt{30}}{50}$	0	0	0
		0	0	$\frac{2\sqrt{15}}{25}$	0	0	0	0	$\frac{\sqrt{10}}{50}$	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{4}{35}$	0	0	0	0	0
		$-\frac{\sqrt{10}}{50}$	0	0	0	0	$-\frac{8\sqrt{10}}{175}$	0	0	0	0
		0	$-\frac{\sqrt{30}}{50}$	0	0	0	0	$-\frac{12\sqrt{5}}{175}$	0	0	0
		0	0	$-\frac{\sqrt{15}}{25}$	0	0	0	0	$-\frac{8\sqrt{10}}{175}$	0	0
		0	0	0	$-\frac{1}{5}$	0	0	0	0	$-\frac{4}{35}$	0

continued ...

Table 8

No.	multipole	matrix									
542	$M_{3,3}^{(1,1;a)}$	0	0	0	$\frac{8\sqrt{5}}{35}$	0	0	0	0	$-\frac{3\sqrt{5}}{70}$	0
		0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{3}}{14}$
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	$\frac{\sqrt{3}}{14}$	0	0	0	0	$-\frac{2\sqrt{2}}{63}$	0	0
		0	0	0	$\frac{3\sqrt{5}}{70}$	0	0	0	0	$-\frac{8\sqrt{5}}{315}$	0
		0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{2}}{63}$
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
543	$M_{3,2}^{(1,1;a)}$	0	0	$-\frac{4\sqrt{10}}{35}$	0	0	0	0	$\frac{\sqrt{15}}{35}$	0	0
		0	0	0	$\frac{4\sqrt{10}}{35}$	0	0	0	0	$\frac{\sqrt{10}}{70}$	0
		0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{2}}{14}$
		0	0	0	0	0	0	0	0	0	0
		0	$-\frac{\sqrt{2}}{14}$	0	0	0	0	$\frac{2\sqrt{3}}{63}$	0	0	0
		0	0	$\frac{\sqrt{10}}{70}$	0	0	0	0	$\frac{2\sqrt{15}}{315}$	0	0
		0	0	0	$\frac{\sqrt{15}}{35}$	0	0	0	0	$-\frac{2\sqrt{15}}{315}$	0
		0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{3}}{63}$
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0

continued ...

Table 8

No.	multipole	matrix									
544	$M_{3,1}^{(1,1;a)}$	0	$\frac{8}{35}$	0	0	0	0	$-\frac{3\sqrt{6}}{70}$	0	0	0
		0	0	$-\frac{8\sqrt{3}}{35}$	0	0	0	0	$\frac{\sqrt{2}}{70}$	0	0
		0	0	0	$\frac{8}{35}$	0	0	0	0	$\frac{1}{10}$	0
		0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{15}}{70}$
		$\frac{\sqrt{15}}{70}$	0	0	0	0	$-\frac{4\sqrt{15}}{315}$	0	0	0	0
		0	$-\frac{1}{10}$	0	0	0	0	$\frac{2\sqrt{6}}{315}$	0	0	0
		0	0	$-\frac{\sqrt{2}}{70}$	0	0	0	0	$\frac{8\sqrt{3}}{315}$	0	0
		0	0	0	$\frac{3\sqrt{6}}{70}$	0	0	0	0	$\frac{2\sqrt{6}}{315}$	0
		0	0	0	0	0	0	0	0	0	$-\frac{4\sqrt{15}}{315}$
		0	0	0	0	0	0	0	0	0	0
545	$M_{3,0}^{(1,1;a)}$	$-\frac{4}{35}$	0	0	0	0	$\frac{3}{35}$	0	0	0	0
		0	$\frac{12}{35}$	0	0	0	0	$-\frac{\sqrt{6}}{35}$	0	0	0
		0	0	$-\frac{12}{35}$	0	0	0	0	$-\frac{\sqrt{6}}{35}$	0	0
		0	0	0	$\frac{4}{35}$	0	0	0	0	$\frac{3}{35}$	0
		0	0	0	0	$\frac{2}{63}$	0	0	0	0	0
		$\frac{3}{35}$	0	0	0	0	$-\frac{2}{45}$	0	0	0	0
		0	$-\frac{\sqrt{6}}{35}$	0	0	0	0	$-\frac{8}{315}$	0	0	0
		0	0	$-\frac{\sqrt{6}}{35}$	0	0	0	0	$\frac{8}{315}$	0	0
		0	0	0	$\frac{3}{35}$	0	0	0	0	$\frac{2}{45}$	0
		0	0	0	0	0	0	0	0	0	$-\frac{2}{63}$

continued ...

Table 8

No.	multipole	matrix									
546	$M_{3,-1}^{(1,1;a)}$	0	0	0	0	$-\frac{\sqrt{15}}{70}$	0	0	0	0	0
		$-\frac{8}{35}$	0	0	0	0	$\frac{1}{10}$	0	0	0	0
		0	$\frac{8\sqrt{3}}{35}$	0	0	0	0	$\frac{\sqrt{2}}{70}$	0	0	0
		0	0	$-\frac{8}{35}$	0	0	0	0	$-\frac{3\sqrt{6}}{70}$	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{4\sqrt{15}}{315}$	0	0	0	0	0
		$\frac{3\sqrt{6}}{70}$	0	0	0	0	$-\frac{2\sqrt{6}}{315}$	0	0	0	0
		0	$-\frac{\sqrt{2}}{70}$	0	0	0	0	$-\frac{8\sqrt{3}}{315}$	0	0	0
		0	0	$-\frac{1}{10}$	0	0	0	0	$-\frac{2\sqrt{6}}{315}$	0	0
		0	0	0	$\frac{\sqrt{15}}{70}$	0	0	0	0	$\frac{4\sqrt{15}}{315}$	0
547	$M_{3,-2}^{(1,1;a)}$	0	0	0	0	0	0	0	0	0	
		0	0	0	0	$-\frac{\sqrt{2}}{14}$	0	0	0	0	
		$-\frac{4\sqrt{10}}{35}$	0	0	0	0	$\frac{\sqrt{10}}{70}$	0	0	0	
		0	$\frac{4\sqrt{10}}{35}$	0	0	0	0	$\frac{\sqrt{15}}{35}$	0	0	
		0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		0	0	0	0	$\frac{2\sqrt{3}}{63}$	0	0	0	0	
		$\frac{\sqrt{15}}{35}$	0	0	0	0	$\frac{2\sqrt{15}}{315}$	0	0	0	
		0	$\frac{\sqrt{10}}{70}$	0	0	0	0	$-\frac{2\sqrt{15}}{315}$	0	0	
		0	0	$-\frac{\sqrt{2}}{14}$	0	0	0	0	$-\frac{2\sqrt{3}}{63}$	0	

continued ...

Table 8

No.	multipole	matrix									
548	$M_{3,-3}^{(1,1;a)}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{\sqrt{3}}{14}$	0	0	0	0	0
		$-\frac{8\sqrt{5}}{35}$	0	0	0	0	$-\frac{3\sqrt{5}}{70}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{2\sqrt{2}}{63}$	0	0	0	0	0
		$\frac{3\sqrt{5}}{70}$	0	0	0	0	$\frac{8\sqrt{5}}{315}$	0	0	0	0
		0	$\frac{\sqrt{3}}{14}$	0	0	0	0	$\frac{2\sqrt{2}}{63}$	0	0	0

$$\text{bra:} = \left| \frac{3}{2}, \frac{3}{2}; d \right\rangle, \left| \frac{3}{2}, \frac{1}{2}; d \right\rangle, \left| \frac{3}{2}, -\frac{1}{2}; d \right\rangle, \left| \frac{3}{2}, -\frac{3}{2}; d \right\rangle, \left| \frac{5}{2}, \frac{5}{2}; d \right\rangle, \left| \frac{5}{2}, \frac{3}{2}; d \right\rangle, \left| \frac{5}{2}, \frac{1}{2}; d \right\rangle, \left| \frac{5}{2}, -\frac{1}{2}; d \right\rangle, \left| \frac{5}{2}, -\frac{3}{2}; d \right\rangle, \left| \frac{5}{2}, -\frac{5}{2}; d \right\rangle$$

$$\text{ket:} = \left| \frac{5}{2}, \frac{5}{2}; f \right\rangle, \left| \frac{5}{2}, \frac{3}{2}; f \right\rangle, \left| \frac{5}{2}, \frac{1}{2}; f \right\rangle, \left| \frac{5}{2}, -\frac{1}{2}; f \right\rangle, \left| \frac{5}{2}, -\frac{3}{2}; f \right\rangle, \left| \frac{5}{2}, -\frac{5}{2}; f \right\rangle, \left| \frac{7}{2}, \frac{7}{2}; f \right\rangle, \left| \frac{7}{2}, \frac{5}{2}; f \right\rangle, \left| \frac{7}{2}, \frac{3}{2}; f \right\rangle, \left| \frac{7}{2}, \frac{1}{2}; f \right\rangle, \left| \frac{7}{2}, -\frac{1}{2}; f \right\rangle, \left| \frac{7}{2}, -\frac{3}{2}; f \right\rangle, \left| \frac{7}{2}, -\frac{5}{2}; f \right\rangle, \left| \frac{7}{2}, -\frac{7}{2}; f \right\rangle$$

Table 9: (d,f) block.

No.	multipole	matrix												
549	$Q_{1,1}^{(a)}$	0	0	$-\frac{1}{5}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	$-\frac{\sqrt{3}}{5}$	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{\sqrt{6}}{5}$	0	0	0	0	0	0	0	0
		0	0	0	0	0	$-\frac{\sqrt{10}}{5}$	0	0	0	0	0	0	0
		0	$\frac{\sqrt{10}}{35}$	0	0	0	0	0	0	$-\frac{1}{7}$	0	0	0	0
		0	0	$\frac{4}{35}$	0	0	0	0	0	0	$-\frac{\sqrt{3}}{7}$	0	0	0
		0	0	0	$\frac{3\sqrt{2}}{35}$	0	0	0	0	0	0	$-\frac{\sqrt{6}}{7}$	0	0
		0	0	0	0	$\frac{4}{35}$	0	0	0	0	0	0	$-\frac{\sqrt{10}}{7}$	0
		0	0	0	0	0	$\frac{\sqrt{10}}{35}$	0	0	0	0	0	0	$-\frac{\sqrt{15}}{7}$
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{21}}{7}$
550	$Q_{1,0}^{(a)}$	0	$\frac{2}{5}$	0	0	0	0	0	0	0	0	0	0	
		0	0	$\frac{\sqrt{6}}{5}$	0	0	0	0	0	0	0	0	0	
		0	0	0	$\frac{\sqrt{6}}{5}$	0	0	0	0	0	0	0	0	
		0	0	0	0	$\frac{2}{5}$	0	0	0	0	0	0	0	
		$-\frac{1}{7}$	0	0	0	0	0	0	$\frac{\sqrt{6}}{7}$	0	0	0	0	
		0	$-\frac{3}{35}$	0	0	0	0	0	0	$\frac{\sqrt{10}}{7}$	0	0	0	
		0	0	$-\frac{1}{35}$	0	0	0	0	0	0	$\frac{2\sqrt{3}}{7}$	0	0	
		0	0	0	$\frac{1}{35}$	0	0	0	0	0	0	$\frac{2\sqrt{3}}{7}$	0	
		0	0	0	0	$\frac{3}{35}$	0	0	0	0	0	0	$\frac{\sqrt{10}}{7}$	
		0	0	0	0	0	$\frac{1}{7}$	0	0	0	0	0	$\frac{\sqrt{6}}{7}$	

continued ...

Table 9

No.	multipole	matrix													
551	$Q_{1,-1}^{(a)}$	$-\frac{\sqrt{10}}{5}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	$-\frac{\sqrt{6}}{5}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$-\frac{\sqrt{3}}{5}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$-\frac{1}{5}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{\sqrt{21}}{7}$	0	0	0	0	0	0	0
		$-\frac{\sqrt{10}}{35}$	0	0	0	0	0	0	$-\frac{\sqrt{15}}{7}$	0	0	0	0	0	0
		0	$-\frac{4}{35}$	0	0	0	0	0	0	$-\frac{\sqrt{10}}{7}$	0	0	0	0	0
		0	0	$-\frac{3\sqrt{2}}{35}$	0	0	0	0	0	0	$-\frac{\sqrt{6}}{7}$	0	0	0	0
		0	0	0	$-\frac{4}{35}$	0	0	0	0	0	0	$-\frac{\sqrt{3}}{7}$	0	0	0
		0	0	0	0	$-\frac{\sqrt{10}}{35}$	0	0	0	0	0	0	0	$-\frac{1}{7}$	0
552	$Q_{3,3}^{(a)}$	0	0	0	0	$\frac{3\sqrt{5}}{35}$	0	0	0	0	0	$\frac{\sqrt{2}}{21}$	0	0	
		0	0	0	0	0	$\frac{\sqrt{3}}{7}$	0	0	0	0	0	$\frac{2\sqrt{2}}{21}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{14}}{21}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	$-\frac{2\sqrt{2}}{21}$	0	0	0	0	0	$\frac{\sqrt{6}}{21}$	0	0	0	
		0	0	0	0	$-\frac{8\sqrt{5}}{105}$	0	0	0	0	0	$\frac{\sqrt{2}}{7}$	0	0	
		0	0	0	0	0	$-\frac{2\sqrt{2}}{21}$	0	0	0	0	0	$\frac{\sqrt{3}}{7}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{21}}{21}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	

continued ...

Table 9

No.	multipole	matrix												
553	$Q_{3,2}^{(a)}$	0	0	0	$-\frac{2\sqrt{15}}{35}$	0	0	0	0	0	$-\frac{\sqrt{5}}{21}$	0	0	0
		0	0	0	0	$-\frac{\sqrt{10}}{35}$	0	0	0	0	0	$-\frac{1}{7}$	0	0
		0	0	0	0	0	$\frac{\sqrt{2}}{7}$	0	0	0	0	0	$-\frac{\sqrt{3}}{21}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{7}}{21}$
		0	0	$\frac{2\sqrt{3}}{21}$	0	0	0	0	0	$-\frac{4}{21}$	0	0	0	0
		0	0	0	$\frac{2\sqrt{15}}{105}$	0	0	0	0	0	$-\frac{2\sqrt{5}}{21}$	0	0	0
		0	0	0	0	$-\frac{2\sqrt{15}}{105}$	0	0	0	0	0	$-\frac{\sqrt{6}}{21}$	0	0
		0	0	0	0	0	$-\frac{2\sqrt{3}}{21}$	0	0	0	0	0	$\frac{\sqrt{2}}{21}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{7}}{21}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
554	$Q_{3,1}^{(a)}$	0	0	$\frac{3\sqrt{6}}{35}$	0	0	0	0	0	$\frac{2\sqrt{2}}{21}$	0	0	0	0
		0	0	0	$-\frac{\sqrt{2}}{35}$	0	0	0	0	0	$\frac{\sqrt{6}}{21}$	0	0	0
		0	0	0	0	$-\frac{1}{5}$	0	0	0	0	0	0	0	0
		0	0	0	0	0	$\frac{\sqrt{15}}{35}$	0	0	0	0	0	$-\frac{\sqrt{10}}{21}$	0
		0	$-\frac{4\sqrt{15}}{105}$	0	0	0	0	0	$\frac{2\sqrt{6}}{21}$	0	0	0	0	0
		0	0	$\frac{2\sqrt{6}}{105}$	0	0	0	0	0	$\frac{2\sqrt{2}}{21}$	0	0	0	0
		0	0	0	$\frac{8\sqrt{3}}{105}$	0	0	0	0	0	$-\frac{1}{21}$	0	0	0
		0	0	0	0	$\frac{2\sqrt{6}}{105}$	0	0	0	0	0	$-\frac{\sqrt{15}}{21}$	0	0
		0	0	0	0	0	$-\frac{4\sqrt{15}}{105}$	0	0	0	0	0	$-\frac{\sqrt{10}}{21}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{14}}{21}$

continued ...

Table 9

No.	multipole	matrix													
555	$Q_{3,0}^{(a)}$	0	$-\frac{6}{35}$	0	0	0	0	0	$-\frac{\sqrt{10}}{21}$	0	0	0	0	0	
		0	0	$\frac{2\sqrt{6}}{35}$	0	0	0	0	0	$-\frac{\sqrt{2}}{21}$	0	0	0	0	0
		0	0	0	$\frac{2\sqrt{6}}{35}$	0	0	0	0	0	0	$\frac{\sqrt{2}}{21}$	0	0	0
		0	0	0	0	$-\frac{6}{35}$	0	0	0	0	0	0	$\frac{\sqrt{10}}{21}$	0	0
		$\frac{2}{21}$	0	0	0	0	0	0	$-\frac{2\sqrt{6}}{21}$	0	0	0	0	0	0
		0	$-\frac{2}{15}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$-\frac{8}{105}$	0	0	0	0	0	0	$\frac{2\sqrt{3}}{21}$	0	0	0	0
		0	0	0	$\frac{8}{105}$	0	0	0	0	0	0	$\frac{2\sqrt{3}}{21}$	0	0	0
		0	0	0	0	$\frac{2}{15}$	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$-\frac{2}{21}$	0	0	0	0	0	0	$-\frac{2\sqrt{6}}{21}$	0
556	$Q_{3,-1}^{(a)}$	$\frac{\sqrt{15}}{35}$	0	0	0	0	0	0	$\frac{\sqrt{10}}{21}$	0	0	0	0	0	
		0	$-\frac{1}{5}$	0	0	0	0	0	0	0	0	0	0	0	
		0	0	$-\frac{\sqrt{2}}{35}$	0	0	0	0	0	0	$-\frac{\sqrt{6}}{21}$	0	0	0	
		0	0	0	$\frac{3\sqrt{6}}{35}$	0	0	0	0	0	0	$-\frac{2\sqrt{2}}{21}$	0	0	
		0	0	0	0	0	0	$\frac{\sqrt{14}}{21}$	0	0	0	0	0	0	
		$\frac{4\sqrt{15}}{105}$	0	0	0	0	0	0	$-\frac{\sqrt{10}}{21}$	0	0	0	0	0	
		0	$-\frac{2\sqrt{6}}{105}$	0	0	0	0	0	0	$-\frac{\sqrt{15}}{21}$	0	0	0	0	
		0	0	$-\frac{8\sqrt{3}}{105}$	0	0	0	0	0	0	$-\frac{1}{21}$	0	0	0	
		0	0	0	$-\frac{2\sqrt{6}}{105}$	0	0	0	0	0	0	$\frac{2\sqrt{2}}{21}$	0	0	
		0	0	0	0	$\frac{4\sqrt{15}}{105}$	0	0	0	0	0	0	$\frac{2\sqrt{6}}{21}$	0	

continued ...

Table 9

No.	multipole	matrix													
557	$Q_{3,-2}^{(a)}$	0	0	0	0	0	0	$-\frac{\sqrt{7}}{21}$	0	0	0	0	0	0	0
		$\frac{\sqrt{2}}{7}$	0	0	0	0	0	0	$\frac{\sqrt{3}}{21}$	0	0	0	0	0	0
		0	$-\frac{\sqrt{10}}{35}$	0	0	0	0	0	0	$\frac{1}{7}$	0	0	0	0	0
		0	0	$-\frac{2\sqrt{15}}{35}$	0	0	0	0	0	0	$\frac{\sqrt{5}}{21}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{2\sqrt{7}}{21}$	0	0	0	0	0	0	0
		$\frac{2\sqrt{3}}{21}$	0	0	0	0	0	0	$\frac{\sqrt{2}}{21}$	0	0	0	0	0	0
		0	$\frac{2\sqrt{15}}{105}$	0	0	0	0	0	0	$-\frac{\sqrt{6}}{21}$	0	0	0	0	0
		0	0	$-\frac{2\sqrt{15}}{105}$	0	0	0	0	0	0	$-\frac{2\sqrt{5}}{21}$	0	0	0	0
		0	0	0	$-\frac{2\sqrt{3}}{21}$	0	0	0	0	0	0	$-\frac{4}{21}$	0	0	0
558	$Q_{3,-3}^{(a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	$-\frac{\sqrt{14}}{21}$	0	0	0	0	0	0	
		$\frac{\sqrt{3}}{7}$	0	0	0	0	0	0	$-\frac{2\sqrt{2}}{21}$	0	0	0	0	0	
		0	$\frac{3\sqrt{5}}{35}$	0	0	0	0	0	0	$-\frac{\sqrt{2}}{21}$	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	$\frac{\sqrt{21}}{21}$	0	0	0	0	0	0	
		$\frac{2\sqrt{2}}{21}$	0	0	0	0	0	0	$\frac{\sqrt{3}}{7}$	0	0	0	0	0	
		0	$\frac{8\sqrt{5}}{105}$	0	0	0	0	0	0	$\frac{\sqrt{2}}{7}$	0	0	0	0	
		0	0	$\frac{2\sqrt{2}}{21}$	0	0	0	0	0	0	$\frac{\sqrt{6}}{21}$	0	0	0	

continued ...

Table 9

No.	multipole	matrix
559	$Q_{5,5}^{(a)}$	0 0 0 0 0 0 0 0 0 0 0 0 0 0 $-\frac{2\sqrt{30}}{33}$
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 $\frac{10\sqrt{7}}{77}$ 0 0 0 0 0 0 0 0 $-\frac{5\sqrt{42}}{231}$ 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 $-\frac{\sqrt{30}}{33}$
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
560	$Q_{5,4}^{(a)}$	0 0 0 0 0 0 0 0 0 0 0 0 0 $\frac{2\sqrt{21}}{33}$ 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 $-\frac{2}{11}$
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 0 $-\frac{5\sqrt{14}}{77}$ 0 0 0 0 0 0 0 $\frac{2\sqrt{35}}{77}$ 0 0
		0 0 0 0 0 $\frac{5\sqrt{14}}{77}$ 0 0 0 0 0 0 0 $\frac{2\sqrt{21}}{231}$ 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 $-\frac{2\sqrt{6}}{33}$
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

continued ...

Table 9

No.	multipole	matrix													
561	$Q_{5,3}^{(a)}$	0	0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{14}}{33}$	0	0	
		0	0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{14}}{33}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{2}}{33}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	$\frac{10\sqrt{14}}{231}$	0	0	0	0	0	0	$-\frac{5\sqrt{42}}{231}$	0	0	0
		0	0	0	0	$-\frac{10\sqrt{35}}{231}$	0	0	0	0	0	0	$\frac{\sqrt{14}}{77}$	0	0
		0	0	0	0	0	$\frac{10\sqrt{14}}{231}$	0	0	0	0	0	0	$\frac{2\sqrt{21}}{77}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{3}}{33}$
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
562	$Q_{5,2}^{(a)}$	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{35}}{33}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{7}}{11}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{21}}{33}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{1}{33}$
		0	0	$-\frac{5\sqrt{21}}{231}$	0	0	0	0	0	0	$\frac{10\sqrt{7}}{231}$	0	0	0	0
		0	0	0	$\frac{5\sqrt{105}}{231}$	0	0	0	0	0	0	$-\frac{4\sqrt{35}}{231}$	0	0	0
		0	0	0	0	$-\frac{5\sqrt{105}}{231}$	0	0	0	0	0	0	$-\frac{2\sqrt{42}}{231}$	0	0
		0	0	0	0	0	$\frac{5\sqrt{21}}{231}$	0	0	0	0	0	0	$\frac{8\sqrt{14}}{231}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{2}{33}$
		0	0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 9

No.	multipole	matrix													
563	$Q_{5,1}^{(a)}$	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{5}}{33}$	0	0	0	0	
		0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{15}}{33}$	0	0	0	
		0	0	0	0	0	0	0	0	0	0	$-\frac{2}{11}$	0	0	
		0	0	0	0	0	0	0	0	0	0	0	$\frac{2}{33}$	0	
		0	$\frac{5\sqrt{6}}{231}$	0	0	0	0	0	0	$-\frac{5\sqrt{15}}{231}$	0	0	0	0	
		0	0	$-\frac{10\sqrt{15}}{231}$	0	0	0	0	0	0	$\frac{13\sqrt{5}}{231}$	0	0	0	0
		0	0	0	$\frac{10\sqrt{30}}{231}$	0	0	0	0	0	0	$-\frac{\sqrt{10}}{231}$	0	0	0
		0	0	0	0	$-\frac{10\sqrt{15}}{231}$	0	0	0	0	0	0	$-\frac{\sqrt{6}}{21}$	0	0
		0	0	0	0	0	$\frac{5\sqrt{6}}{231}$	0	0	0	0	0	0	$\frac{23}{231}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{35}}{231}$
564	$Q_{5,0}^{(a)}$	0	0	0	0	0	0	0	0	$\frac{\sqrt{10}}{33}$	0	0	0	0	
		0	0	0	0	0	0	0	0	0	$-\frac{5\sqrt{2}}{33}$	0	0	0	
		0	0	0	0	0	0	0	0	0	0	$\frac{5\sqrt{2}}{33}$	0	0	
		0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{10}}{33}$	0	
		$-\frac{5}{231}$	0	0	0	0	0	0	$\frac{5\sqrt{6}}{231}$	0	0	0	0	0	
		0	$\frac{25}{231}$	0	0	0	0	0	0	$-\frac{3\sqrt{10}}{77}$	0	0	0	0	0
		0	0	$-\frac{50}{231}$	0	0	0	0	0	0	$\frac{10\sqrt{3}}{231}$	0	0	0	0
		0	0	0	$\frac{50}{231}$	0	0	0	0	0	0	$\frac{10\sqrt{3}}{231}$	0	0	0
		0	0	0	0	$-\frac{25}{231}$	0	0	0	0	0	0	$-\frac{3\sqrt{10}}{77}$	0	0
		0	0	0	0	0	$\frac{5}{231}$	0	0	0	0	0	0	$\frac{5\sqrt{6}}{231}$	0

continued ...

Table 9

No.	multipole	matrix														
565	$Q_{5,-1}^{(a)}$	0	0	0	0	0	0	0	$-\frac{2}{33}$	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	$\frac{2}{11}$	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{15}}{33}$	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{5}}{33}$	0	0	0	
		0	0	0	0	0	0	$-\frac{\sqrt{35}}{231}$	0	0	0	0	0	0	0	
		$-\frac{5\sqrt{6}}{231}$	0	0	0	0	0	0	0	$\frac{23}{231}$	0	0	0	0	0	0
		0	$\frac{10\sqrt{15}}{231}$	0	0	0	0	0	0	$-\frac{\sqrt{6}}{21}$	0	0	0	0	0	0
		0	0	$-\frac{10\sqrt{30}}{231}$	0	0	0	0	0	0	$-\frac{\sqrt{10}}{231}$	0	0	0	0	0
		0	0	0	$\frac{10\sqrt{15}}{231}$	0	0	0	0	0	0	0	$\frac{13\sqrt{5}}{231}$	0	0	0
		0	0	0	0	$-\frac{5\sqrt{6}}{231}$	0	0	0	0	0	0	0	$-\frac{5\sqrt{15}}{231}$	0	0
566	$Q_{5,-2}^{(a)}$	0	0	0	0	0	0	$\frac{1}{33}$	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	$-\frac{\sqrt{21}}{33}$	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	$\frac{\sqrt{7}}{11}$	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{35}}{33}$	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	$-\frac{2}{33}$	0	0	0	0	0	0	0	0
		$-\frac{5\sqrt{21}}{231}$	0	0	0	0	0	0	$\frac{8\sqrt{14}}{231}$	0	0	0	0	0	0	0
		0	$\frac{5\sqrt{105}}{231}$	0	0	0	0	0	0	$-\frac{2\sqrt{42}}{231}$	0	0	0	0	0	0
		0	0	$-\frac{5\sqrt{105}}{231}$	0	0	0	0	0	0	$-\frac{4\sqrt{35}}{231}$	0	0	0	0	0
		0	0	0	$\frac{5\sqrt{21}}{231}$	0	0	0	0	0	0	0	$\frac{10\sqrt{7}}{231}$	0	0	0

continued ...

Table 9

No.	multipole	matrix													
567	$Q_{5,-3}^{(a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	$\frac{2\sqrt{2}}{33}$	0	0	0	0	0	0	
		0	0	0	0	0	0	0	$-\frac{2\sqrt{14}}{33}$	0	0	0	0	0	
		0	0	0	0	0	0	0	0	$\frac{2\sqrt{14}}{33}$	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	$-\frac{2\sqrt{3}}{33}$	0	0	0	0	0	0	0
		$-\frac{10\sqrt{14}}{231}$	0	0	0	0	0	0	$\frac{2\sqrt{21}}{77}$	0	0	0	0	0	0
		0	$\frac{10\sqrt{35}}{231}$	0	0	0	0	0	0	$\frac{\sqrt{14}}{77}$	0	0	0	0	0
		0	0	$-\frac{10\sqrt{14}}{231}$	0	0	0	0	0	0	0	$-\frac{5\sqrt{42}}{231}$	0	0	0
568	$Q_{5,-4}^{(a)}$	0	0	0	0	0	0	0	0	0	0	0	0		
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	$\frac{2}{11}$	0	0	0	0	0	0	
		0	0	0	0	0	0	0	$-\frac{2\sqrt{21}}{33}$	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	$-\frac{2\sqrt{6}}{33}$	0	0	0	0	0	0	0
		$-\frac{5\sqrt{14}}{77}$	0	0	0	0	0	0	$\frac{2\sqrt{21}}{231}$	0	0	0	0	0	0
		0	$\frac{5\sqrt{14}}{77}$	0	0	0	0	0	0	$\frac{2\sqrt{35}}{77}$	0	0	0	0	0

continued ...

Table 9

No.	multipole	matrix												
569	$Q_{5,-5}^{(a)}$	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	$\frac{2\sqrt{30}}{33}$	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	$-\frac{\sqrt{30}}{33}$	0	0	0	0	0	
				$-\frac{10\sqrt{7}}{77}$	0	0	0	0	0	$-\frac{5\sqrt{42}}{231}$	0	0	0	0
570	$Q_{3,3}^{(1,-1;a)}$	0	0	0	0	$\frac{8\sqrt{3}}{35}$	0	0	0	0	0	$\frac{4\sqrt{30}}{35}$	0	
		0	0	0	0	0	$\frac{8\sqrt{5}}{35}$	0	0	0	0	0	$\frac{8\sqrt{30}}{35}$	
		0	0	0	0	0	0	0	0	0	0	0	$\frac{4\sqrt{210}}{35}$	
		0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	$-\frac{4\sqrt{30}}{35}$	0	0	0	0	0	$-\frac{8\sqrt{10}}{35}$	0	0	0
		0	0	0	0	$-\frac{16\sqrt{3}}{35}$	0	0	0	0	0	$-\frac{8\sqrt{30}}{35}$	0	0
		0	0	0	0	0	$-\frac{4\sqrt{30}}{35}$	0	0	0	0	0	$-\frac{24\sqrt{5}}{35}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{8\sqrt{35}}{35}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 9

No.	multipole	matrix													
571	$Q_{3,2}^{(1,-1;a)}$	0	0	0	$-\frac{16}{35}$	0	0	0	0	0	$-\frac{4\sqrt{3}}{7}$	0	0	0	
		0	0	0	0	$-\frac{8\sqrt{6}}{105}$	0	0	0	0	0	$-\frac{12\sqrt{15}}{35}$	0	0	
		0	0	0	0	0	$\frac{8\sqrt{30}}{105}$	0	0	0	0	0	$-\frac{12\sqrt{5}}{35}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{4\sqrt{105}}{35}$	
		0	0	$\frac{12\sqrt{5}}{35}$	0	0	0	0	0	$\frac{32\sqrt{15}}{105}$	0	0	0	0	
		0	0	0	$\frac{12}{35}$	0	0	0	0	0	$\frac{16\sqrt{3}}{21}$	0	0	0	0
		0	0	0	0	$-\frac{12}{35}$	0	0	0	0	0	$\frac{8\sqrt{10}}{35}$	0	0	0
		0	0	0	0	0	$-\frac{12\sqrt{5}}{35}$	0	0	0	0	0	$-\frac{8\sqrt{30}}{105}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{16\sqrt{105}}{105}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
572	$Q_{3,1}^{(1,-1;a)}$	0	0	$\frac{24\sqrt{10}}{175}$	0	0	0	0	0	$\frac{8\sqrt{30}}{35}$	0	0	0	0	
		0	0	0	$-\frac{8\sqrt{30}}{525}$	0	0	0	0	0	$\frac{12\sqrt{10}}{35}$	0	0	0	
		0	0	0	0	$-\frac{8\sqrt{15}}{75}$	0	0	0	0	0	0	0	0	
		0	0	0	0	0	$\frac{8}{35}$	0	0	0	0	0	$-\frac{4\sqrt{6}}{7}$	0	
		0	$-\frac{24}{35}$	0	0	0	0	0	0	$-\frac{16\sqrt{10}}{35}$	0	0	0	0	
		0	0	$\frac{12\sqrt{10}}{175}$	0	0	0	0	0	$-\frac{16\sqrt{30}}{105}$	0	0	0	0	
		0	0	0	$\frac{48\sqrt{5}}{175}$	0	0	0	0	0	$\frac{8\sqrt{15}}{105}$	0	0	0	0
		0	0	0	0	$\frac{12\sqrt{10}}{175}$	0	0	0	0	0	0	$\frac{8}{7}$	0	0
		0	0	0	0	0	$-\frac{24}{35}$	0	0	0	0	0	0	$\frac{8\sqrt{6}}{21}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{8\sqrt{210}}{105}$

continued ...

Table 9

No.	multipole	matrix														
573	$Q_{3,0}^{(1,-1;a)}$	0	$-\frac{16\sqrt{15}}{175}$	0	0	0	0	0	0	$-\frac{4\sqrt{6}}{7}$	0	0	0	0	0	
		0	0	$\frac{16\sqrt{10}}{175}$	0	0	0	0	0	0	$-\frac{4\sqrt{30}}{35}$	0	0	0	0	0
		0	0	0	$\frac{16\sqrt{10}}{175}$	0	0	0	0	0	0	$\frac{4\sqrt{30}}{35}$	0	0	0	0
		0	0	0	0	$-\frac{16\sqrt{15}}{175}$	0	0	0	0	0	0	$\frac{4\sqrt{6}}{7}$	0	0	0
		$\frac{4\sqrt{15}}{35}$	0	0	0	0	0	0	$\frac{16\sqrt{10}}{35}$	0	0	0	0	0	0	0
		0	$-\frac{4\sqrt{15}}{25}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$-\frac{16\sqrt{15}}{175}$	0	0	0	0	0	0	$-\frac{16\sqrt{5}}{35}$	0	0	0	0	0
		0	0	0	$\frac{16\sqrt{15}}{175}$	0	0	0	0	0	0	$-\frac{16\sqrt{5}}{35}$	0	0	0	0
		0	0	0	0	$\frac{4\sqrt{15}}{25}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$-\frac{4\sqrt{15}}{35}$	0	0	0	0	0	0	0	$\frac{16\sqrt{10}}{35}$	0
574	$Q_{3,-1}^{(1,-1;a)}$	$\frac{8}{35}$	0	0	0	0	0	0	$\frac{4\sqrt{6}}{7}$	0	0	0	0	0	0	
		0	$-\frac{8\sqrt{15}}{75}$	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	$-\frac{8\sqrt{30}}{525}$	0	0	0	0	0	0	$-\frac{12\sqrt{10}}{35}$	0	0	0	0	
		0	0	0	$\frac{24\sqrt{10}}{175}$	0	0	0	0	0	0	$-\frac{8\sqrt{30}}{35}$	0	0	0	
		0	0	0	0	0	0	$-\frac{8\sqrt{210}}{105}$	0	0	0	0	0	0	0	
		$\frac{24}{35}$	0	0	0	0	0	0	$\frac{8\sqrt{6}}{21}$	0	0	0	0	0	0	
		0	$-\frac{12\sqrt{10}}{175}$	0	0	0	0	0	0	$\frac{8}{7}$	0	0	0	0	0	
		0	0	$-\frac{48\sqrt{5}}{175}$	0	0	0	0	0	0	$\frac{8\sqrt{15}}{105}$	0	0	0	0	
		0	0	0	$-\frac{12\sqrt{10}}{175}$	0	0	0	0	0	0	$-\frac{16\sqrt{30}}{105}$	0	0	0	
		0	0	0	0	$\frac{24}{35}$	0	0	0	0	0	0	$-\frac{16\sqrt{10}}{35}$	0	0	

continued ...

Table 9

No.	multipole	matrix																				
575	$Q_{3,-2}^{(1,-1;a)}$	0	0	0	0	0	0	$-\frac{4\sqrt{105}}{35}$	0	0	0	0	0	0	0	0	0	0	0	0	0	
		$\frac{8\sqrt{30}}{105}$	0	0	0	0	0	0	0	$\frac{12\sqrt{5}}{35}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	$-\frac{8\sqrt{6}}{105}$	0	0	0	0	0	0	0	$\frac{12\sqrt{15}}{35}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	$-\frac{16}{35}$	0	0	0	0	0	0	0	0	$\frac{4\sqrt{3}}{7}$	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	$-\frac{16\sqrt{105}}{105}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		$\frac{12\sqrt{5}}{35}$	0	0	0	0	0	0	0	$-\frac{8\sqrt{30}}{105}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	$\frac{12}{35}$	0	0	0	0	0	0	0	0	$\frac{8\sqrt{10}}{35}$	0	0	0	0	0	0	0	0	0	0
		0	0	$-\frac{12}{35}$	0	0	0	0	0	0	0	0	$\frac{16\sqrt{3}}{21}$	0	0	0	0	0	0	0	0	0
		0	0	0	$-\frac{12\sqrt{5}}{35}$	0	0	0	0	0	0	0	0	0	$\frac{32\sqrt{15}}{105}$	0	0	0	0	0	0	0
576	$Q_{3,-3}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	$-\frac{4\sqrt{210}}{35}$	0	0	0	0	0	0	0	0	0	0	0	0	0	
		$\frac{8\sqrt{5}}{35}$	0	0	0	0	0	0	$-\frac{8\sqrt{30}}{35}$	0	0	0	0	0	0	0	0	0	0	0	0	
		0	$\frac{8\sqrt{3}}{35}$	0	0	0	0	0	0	0	$-\frac{4\sqrt{30}}{35}$	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	$-\frac{8\sqrt{35}}{35}$	0	0	0	0	0	0	0	0	0	0	0	0	0	
		$\frac{4\sqrt{30}}{35}$	0	0	0	0	0	0	$-\frac{24\sqrt{5}}{35}$	0	0	0	0	0	0	0	0	0	0	0	0	
		0	$\frac{16\sqrt{3}}{35}$	0	0	0	0	0	0	0	$-\frac{8\sqrt{30}}{35}$	0	0	0	0	0	0	0	0	0	0	
		0	0	$\frac{4\sqrt{30}}{35}$	0	0	0	0	0	0	0	0	$-\frac{8\sqrt{10}}{35}$	0	0	0	0	0	0	0	0	

continued ...

Table 9

No.	multipole	matrix													
577	$Q_{5,5}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{4\sqrt{6}}{15}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	$\frac{8\sqrt{35}}{105}$	0	0	0	0	0	0	$\frac{8\sqrt{210}}{105}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{8\sqrt{6}}{15}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
578	$Q_{5,4}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	$\frac{4\sqrt{105}}{75}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{4\sqrt{5}}{25}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	$-\frac{4\sqrt{70}}{105}$	0	0	0	0	0	$-\frac{16\sqrt{7}}{35}$	0	0	
		0	0	0	0	0	$\frac{4\sqrt{70}}{105}$	0	0	0	0	0	$-\frac{16\sqrt{105}}{525}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{16\sqrt{30}}{75}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	

continued ...

Table 9

No.	multipole	matrix													
579	$Q_{5,3}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	$-\frac{4\sqrt{70}}{75}$	0	0	
		0	0	0	0	0	0	0	0	0	0	0	$\frac{4\sqrt{70}}{75}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{4\sqrt{10}}{75}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	$\frac{8\sqrt{70}}{315}$	0	0	0	0	0	0	$\frac{8\sqrt{210}}{105}$	0	0	0
		0	0	0	0	$-\frac{8\sqrt{7}}{63}$	0	0	0	0	0	0	$-\frac{8\sqrt{70}}{175}$	0	0
		0	0	0	0	0	$\frac{8\sqrt{70}}{315}$	0	0	0	0	0	0	$-\frac{16\sqrt{105}}{175}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{16\sqrt{15}}{75}$
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
580	$Q_{5,2}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{7}}{15}$	0	0	0	
		0	0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{35}}{25}$	0	0	
		0	0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{105}}{75}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{5}}{75}$	
		0	0	$-\frac{4\sqrt{105}}{315}$	0	0	0	0	0	0	$-\frac{16\sqrt{35}}{105}$	0	0	0	0
		0	0	0	$\frac{4\sqrt{21}}{63}$	0	0	0	0	0	0	$\frac{32\sqrt{7}}{105}$	0	0	0
		0	0	0	0	$-\frac{4\sqrt{21}}{63}$	0	0	0	0	0	0	$\frac{16\sqrt{210}}{525}$	0	0
		0	0	0	0	0	$\frac{4\sqrt{105}}{315}$	0	0	0	0	0	0	$-\frac{64\sqrt{70}}{525}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{16\sqrt{5}}{75}$
		0	0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 9

No.	multipole	matrix													
581	$Q_{5,1}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	$-\frac{4}{15}$	0	0	0	0	
		0	0	0	0	0	0	0	0	0	$\frac{4\sqrt{3}}{15}$	0	0	0	
		0	0	0	0	0	0	0	0	0	0	$-\frac{4\sqrt{5}}{25}$	0	0	
		0	0	0	0	0	0	0	0	0	0	0	$\frac{4\sqrt{5}}{75}$	0	
		0	$\frac{4\sqrt{30}}{315}$	0	0	0	0	0	0	$\frac{8\sqrt{3}}{21}$	0	0	0	0	0
		0	0	$-\frac{8\sqrt{3}}{63}$	0	0	0	0	0	0	$-\frac{104}{105}$	0	0	0	0
		0	0	0	$\frac{8\sqrt{6}}{63}$	0	0	0	0	0	0	$\frac{8\sqrt{2}}{105}$	0	0	0
		0	0	0	0	$-\frac{8\sqrt{3}}{63}$	0	0	0	0	0	0	$\frac{88\sqrt{30}}{525}$	0	0
		0	0	0	0	0	$\frac{4\sqrt{30}}{315}$	0	0	0	0	0	0	$-\frac{184\sqrt{5}}{525}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{8\sqrt{7}}{105}$
582	$Q_{5,0}^{(1,-1;a)}$	0	0	0	0	0	0	0	$\frac{2\sqrt{2}}{15}$	0	0	0	0	0	
		0	0	0	0	0	0	0	0	$-\frac{2\sqrt{10}}{15}$	0	0	0	0	
		0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{10}}{15}$	0	0	0	
		0	0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{2}}{15}$	0	0	
		$-\frac{4\sqrt{5}}{315}$	0	0	0	0	0	0	$-\frac{8\sqrt{30}}{105}$	0	0	0	0	0	
		0	$\frac{4\sqrt{5}}{63}$	0	0	0	0	0	0	$\frac{24\sqrt{2}}{35}$	0	0	0	0	0
		0	0	$-\frac{8\sqrt{5}}{63}$	0	0	0	0	0	0	$-\frac{16\sqrt{15}}{105}$	0	0	0	0
		0	0	0	$\frac{8\sqrt{5}}{63}$	0	0	0	0	0	0	$-\frac{16\sqrt{15}}{105}$	0	0	0
		0	0	0	0	$-\frac{4\sqrt{5}}{63}$	0	0	0	0	0	0	$\frac{24\sqrt{2}}{35}$	0	0
		0	0	0	0	0	$\frac{4\sqrt{5}}{315}$	0	0	0	0	0	0	$-\frac{8\sqrt{30}}{105}$	0

continued ...

Table 9

No.	multipole	matrix													
583	$Q_{5,-1}^{(1,-1;a)}$	0	0	0	0	0	0	0	$-\frac{4\sqrt{5}}{75}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$\frac{4\sqrt{5}}{25}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$-\frac{4\sqrt{3}}{15}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$\frac{4}{15}$	0	0	0
		0	0	0	0	0	0	$\frac{8\sqrt{7}}{105}$	0	0	0	0	0	0	0
		$-\frac{4\sqrt{30}}{315}$	0	0	0	0	0	0	$-\frac{184\sqrt{5}}{525}$	0	0	0	0	0	0
		0	$\frac{8\sqrt{3}}{63}$	0	0	0	0	0	0	$\frac{88\sqrt{30}}{525}$	0	0	0	0	0
		0	0	$-\frac{8\sqrt{6}}{63}$	0	0	0	0	0	0	$\frac{8\sqrt{2}}{105}$	0	0	0	0
		0	0	0	$\frac{8\sqrt{3}}{63}$	0	0	0	0	0	0	$-\frac{104}{105}$	0	0	0
		0	0	0	0	$-\frac{4\sqrt{30}}{315}$	0	0	0	0	0	0	$\frac{8\sqrt{3}}{21}$	0	0
584	$Q_{5,-2}^{(1,-1;a)}$	0	0	0	0	0	0	$\frac{2\sqrt{5}}{75}$	0	0	0	0	0	0	
		0	0	0	0	0	0	0	$-\frac{2\sqrt{105}}{75}$	0	0	0	0	0	
		0	0	0	0	0	0	0	0	$\frac{2\sqrt{35}}{25}$	0	0	0	0	
		0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{7}}{15}$	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	$\frac{16\sqrt{5}}{75}$	0	0	0	0	0	0	
		$-\frac{4\sqrt{105}}{315}$	0	0	0	0	0	0	$-\frac{64\sqrt{70}}{525}$	0	0	0	0	0	
		0	$\frac{4\sqrt{21}}{63}$	0	0	0	0	0	0	$\frac{16\sqrt{210}}{525}$	0	0	0	0	
		0	0	$-\frac{4\sqrt{21}}{63}$	0	0	0	0	0	0	$\frac{32\sqrt{7}}{105}$	0	0	0	
		0	0	0	$\frac{4\sqrt{105}}{315}$	0	0	0	0	0	0	$-\frac{16\sqrt{35}}{105}$	0	0	

continued ...

Table 9

No.	multipole	matrix													
585	$Q_{5,-3}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	$\frac{4\sqrt{10}}{75}$	0	0	0	0	0	0	
		0	0	0	0	0	0	0	$-\frac{4\sqrt{70}}{75}$	0	0	0	0	0	
		0	0	0	0	0	0	0	0	$\frac{4\sqrt{70}}{75}$	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	$\frac{16\sqrt{15}}{75}$	0	0	0	0	0	0	0
		$-\frac{8\sqrt{70}}{315}$	0	0	0	0	0	0	$-\frac{16\sqrt{105}}{175}$	0	0	0	0	0	0
		0	$\frac{8\sqrt{7}}{63}$	0	0	0	0	0	0	$-\frac{8\sqrt{70}}{175}$	0	0	0	0	0
		0	0	$-\frac{8\sqrt{70}}{315}$	0	0	0	0	0	0	0	$\frac{8\sqrt{210}}{105}$	0	0	0
586	$Q_{5,-4}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	$\frac{4\sqrt{5}}{25}$	0	0	0	0	0	0	
		0	0	0	0	0	0	0	$-\frac{4\sqrt{105}}{75}$	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	$\frac{16\sqrt{30}}{75}$	0	0	0	0	0	0	0
		$-\frac{4\sqrt{70}}{105}$	0	0	0	0	0	0	$-\frac{16\sqrt{105}}{525}$	0	0	0	0	0	0
		0	$\frac{4\sqrt{70}}{105}$	0	0	0	0	0	0	$-\frac{16\sqrt{7}}{35}$	0	0	0	0	0

continued ...

Table 9

No.	multipole	matrix												
587	$Q_{5,-5}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{4\sqrt{6}}{15}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{8\sqrt{6}}{15}$	0	0	0	0	0	0
				$-\frac{8\sqrt{35}}{105}$	0	0	0	0	0	$\frac{8\sqrt{210}}{105}$	0	0	0	0
588	$Q_{1,1}^{(1,0;a)}$	0	0	$\frac{\sqrt{2}}{10}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	$\frac{\sqrt{6}}{10}$	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{\sqrt{3}}{5}$	0	0	0	0	0	0	0	0
		0	0	0	0	0	$\frac{\sqrt{5}}{5}$	0	0	0	0	0	0	0
		0	$-\frac{6\sqrt{5}}{35}$	0	0	0	0	0	0	$-\frac{\sqrt{2}}{14}$	0	0	0	0
		0	0	$-\frac{12\sqrt{2}}{35}$	0	0	0	0	0	$-\frac{\sqrt{6}}{14}$	0	0	0	0
		0	0	0	$-\frac{18}{35}$	0	0	0	0	0	$-\frac{\sqrt{3}}{7}$	0	0	0
		0	0	0	0	$-\frac{12\sqrt{2}}{35}$	0	0	0	0	0	$-\frac{\sqrt{5}}{7}$	0	0
		0	0	0	0	0	$-\frac{6\sqrt{5}}{35}$	0	0	0	0	0	$-\frac{\sqrt{30}}{14}$	0
				0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{42}}{14}$

continued ...

Table 9

No.	multipole	matrix												
589	$\mathbb{Q}_{1,0}^{(1,0;a)}$	0	$-\frac{\sqrt{2}}{5}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	$-\frac{\sqrt{3}}{5}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	$-\frac{\sqrt{3}}{5}$	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{\sqrt{2}}{5}$	0	0	0	0	0	0	0	0
		$\frac{3\sqrt{2}}{7}$	0	0	0	0	0	0	$\frac{\sqrt{3}}{7}$	0	0	0	0	0
		0	$\frac{9\sqrt{2}}{35}$	0	0	0	0	0	0	$\frac{\sqrt{5}}{7}$	0	0	0	0
		0	0	$\frac{3\sqrt{2}}{35}$	0	0	0	0	0	0	$\frac{\sqrt{6}}{7}$	0	0	0
		0	0	0	$-\frac{3\sqrt{2}}{35}$	0	0	0	0	0	0	$\frac{\sqrt{6}}{7}$	0	0
		0	0	0	0	$-\frac{9\sqrt{2}}{35}$	0	0	0	0	0	0	$\frac{\sqrt{5}}{7}$	0
		0	0	0	0	0	$-\frac{3\sqrt{2}}{7}$	0	0	0	0	0	0	$\frac{\sqrt{3}}{7}$
590	$\mathbb{Q}_{1,-1}^{(1,0;a)}$	$\frac{\sqrt{5}}{5}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	$\frac{\sqrt{3}}{5}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	$\frac{\sqrt{6}}{10}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	$\frac{\sqrt{2}}{10}$	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{\sqrt{42}}{14}$	0	0	0	0	0	0
		$\frac{6\sqrt{5}}{35}$	0	0	0	0	0	0	$-\frac{\sqrt{30}}{14}$	0	0	0	0	0
		0	$\frac{12\sqrt{2}}{35}$	0	0	0	0	0	0	$-\frac{\sqrt{5}}{7}$	0	0	0	0
		0	0	$\frac{18}{35}$	0	0	0	0	0	0	$-\frac{\sqrt{3}}{7}$	0	0	0
		0	0	0	$\frac{12\sqrt{2}}{35}$	0	0	0	0	0	0	$-\frac{\sqrt{6}}{14}$	0	0
		0	0	0	0	$\frac{6\sqrt{5}}{35}$	0	0	0	0	0	0	$-\frac{\sqrt{2}}{14}$	0

continued ...

Table 9

No.	multipole	matrix
591	$\mathbb{Q}_{3,3}^{(1,0;a)}$	0 0 0 0 $-\frac{3\sqrt{15}}{700}$ 0 0 0 0 0 0 $\frac{\sqrt{6}}{70}$ 0 0
		0 0 0 0 0 $-\frac{3}{140}$ 0 0 0 0 0 0 $\frac{\sqrt{6}}{35}$ 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 $\frac{\sqrt{42}}{70}$
		0 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 $\frac{\sqrt{6}}{35}$ 0 0 0 0 0 0 $\frac{\sqrt{2}}{140}$ 0 0 0
		0 0 0 0 $\frac{4\sqrt{15}}{175}$ 0 0 0 0 0 0 $\frac{\sqrt{6}}{140}$ 0 0
		0 0 0 0 0 $\frac{\sqrt{6}}{35}$ 0 0 0 0 0 0 $\frac{3}{140}$ 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 $\frac{\sqrt{7}}{140}$
		0 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 0
592	$\mathbb{Q}_{3,2}^{(1,0;a)}$	0 0 0 $\frac{3\sqrt{5}}{350}$ 0 0 0 0 0 0 $-\frac{\sqrt{15}}{70}$ 0 0 0
		0 0 0 0 $\frac{\sqrt{30}}{700}$ 0 0 0 0 0 0 $-\frac{3\sqrt{3}}{70}$ 0 0
		0 0 0 0 0 $-\frac{\sqrt{6}}{140}$ 0 0 0 0 0 0 $-\frac{3}{70}$ 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 $\frac{\sqrt{21}}{70}$
		0 0 $-\frac{3}{35}$ 0 0 0 0 0 0 $-\frac{\sqrt{3}}{105}$ 0 0 0 0
		0 0 0 $-\frac{3\sqrt{5}}{175}$ 0 0 0 0 0 0 $-\frac{\sqrt{15}}{210}$ 0 0 0
		0 0 0 0 $\frac{3\sqrt{5}}{175}$ 0 0 0 0 0 0 $-\frac{\sqrt{2}}{140}$ 0 0
		0 0 0 0 0 $\frac{3}{35}$ 0 0 0 0 0 0 $\frac{\sqrt{6}}{420}$ 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 $\frac{\sqrt{21}}{210}$
		0 0 0 0 0 0 0 0 0 0 0 0 0 0

continued ...

Table 9

No.	multipole	matrix														
593	$\mathbb{Q}_{3,1}^{(1,0;a)}$	0	0	$-\frac{9\sqrt{2}}{700}$	0	0	0	0	0	0	$\frac{\sqrt{6}}{35}$	0	0	0	0	
		0	0	0	$\frac{\sqrt{6}}{700}$	0	0	0	0	0	0	$\frac{3\sqrt{2}}{70}$	0	0	0	0
		0	0	0	0	$\frac{\sqrt{3}}{100}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$-\frac{3\sqrt{5}}{700}$	0	0	0	0	0	0	0	$-\frac{\sqrt{30}}{70}$	0
		0	$\frac{6\sqrt{5}}{175}$	0	0	0	0	0	0	$\frac{\sqrt{2}}{70}$	0	0	0	0	0	0
		0	0	$-\frac{3\sqrt{2}}{175}$	0	0	0	0	0	0	$\frac{\sqrt{6}}{210}$	0	0	0	0	0
		0	0	0	$-\frac{12}{175}$	0	0	0	0	0	0	$-\frac{\sqrt{3}}{420}$	0	0	0	0
		0	0	0	0	$-\frac{3\sqrt{2}}{175}$	0	0	0	0	0	0	$-\frac{\sqrt{5}}{140}$	0	0	0
		0	0	0	0	0	$\frac{6\sqrt{5}}{175}$	0	0	0	0	0	0	$-\frac{\sqrt{30}}{420}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{42}}{420}$	0
594	$\mathbb{Q}_{3,0}^{(1,0;a)}$	0	$\frac{3\sqrt{3}}{350}$	0	0	0	0	0	0	$-\frac{\sqrt{30}}{70}$	0	0	0	0	0	
		0	0	$-\frac{3\sqrt{2}}{350}$	0	0	0	0	0	0	$-\frac{\sqrt{6}}{70}$	0	0	0	0	
		0	0	0	$-\frac{3\sqrt{2}}{350}$	0	0	0	0	0	0	$\frac{\sqrt{6}}{70}$	0	0	0	
		0	0	0	0	$\frac{3\sqrt{3}}{350}$	0	0	0	0	0	0	$\frac{\sqrt{30}}{70}$	0	0	
		$-\frac{\sqrt{3}}{35}$	0	0	0	0	0	0	$-\frac{\sqrt{2}}{70}$	0	0	0	0	0	0	
		0	$\frac{\sqrt{3}}{25}$	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	$\frac{4\sqrt{3}}{175}$	0	0	0	0	0	0	$\frac{1}{70}$	0	0	0	0	
		0	0	0	$-\frac{4\sqrt{3}}{175}$	0	0	0	0	0	0	$\frac{1}{70}$	0	0	0	
		0	0	0	0	$-\frac{\sqrt{3}}{25}$	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	$\frac{\sqrt{3}}{35}$	0	0	0	0	0	0	$-\frac{\sqrt{2}}{70}$	0	

continued ...

Table 9

No.	multipole	matrix													
595	$\mathbb{Q}_{3,-1}^{(1,0;a)}$	$-\frac{3\sqrt{5}}{700}$	0	0	0	0	0	0	$\frac{\sqrt{30}}{70}$	0	0	0	0	0	0
		0	$\frac{\sqrt{3}}{100}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$\frac{\sqrt{6}}{700}$	0	0	0	0	0	0	$-\frac{3\sqrt{2}}{70}$	0	0	0	0
		0	0	0	$-\frac{9\sqrt{2}}{700}$	0	0	0	0	0	0	$-\frac{\sqrt{6}}{35}$	0	0	0
		0	0	0	0	0	0	$\frac{\sqrt{42}}{420}$	0	0	0	0	0	0	0
		$-\frac{6\sqrt{5}}{175}$	0	0	0	0	0	0	$-\frac{\sqrt{30}}{420}$	0	0	0	0	0	0
		0	$\frac{3\sqrt{2}}{175}$	0	0	0	0	0	0	$-\frac{\sqrt{5}}{140}$	0	0	0	0	0
		0	0	$\frac{12}{175}$	0	0	0	0	0	0	$-\frac{\sqrt{3}}{420}$	0	0	0	0
		0	0	0	$\frac{3\sqrt{2}}{175}$	0	0	0	0	0	0	$\frac{\sqrt{6}}{210}$	0	0	0
		0	0	0	0	$-\frac{6\sqrt{5}}{175}$	0	0	0	0	0	0	$\frac{\sqrt{2}}{70}$	0	0
596	$\mathbb{Q}_{3,-2}^{(1,0;a)}$	0	0	0	0	0	0	$-\frac{\sqrt{21}}{70}$	0	0	0	0	0	0	
		$-\frac{\sqrt{6}}{140}$	0	0	0	0	0	0	$\frac{3}{70}$	0	0	0	0	0	
		0	$\frac{\sqrt{30}}{700}$	0	0	0	0	0	0	$\frac{3\sqrt{3}}{70}$	0	0	0	0	
		0	0	$\frac{3\sqrt{5}}{350}$	0	0	0	0	0	0	$\frac{\sqrt{15}}{70}$	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	$\frac{\sqrt{21}}{210}$	0	0	0	0	0	0	
		$-\frac{3}{35}$	0	0	0	0	0	0	$\frac{\sqrt{6}}{420}$	0	0	0	0	0	
		0	$-\frac{3\sqrt{5}}{175}$	0	0	0	0	0	0	$-\frac{\sqrt{2}}{140}$	0	0	0	0	
		0	0	$\frac{3\sqrt{5}}{175}$	0	0	0	0	0	0	$-\frac{\sqrt{15}}{210}$	0	0	0	
		0	0	0	$\frac{3}{35}$	0	0	0	0	0	0	$-\frac{\sqrt{3}}{105}$	0	0	

continued ...

Table 9

No.	multipole	matrix																								
597	$\mathbb{Q}_{3,-3}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	$-\frac{\sqrt{42}}{70}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		$-\frac{3}{140}$	0	0	0	0	0	0	$-\frac{\sqrt{6}}{35}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	$-\frac{3\sqrt{15}}{700}$	0	0	0	0	0	0	0	$-\frac{\sqrt{6}}{70}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{\sqrt{7}}{140}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		$-\frac{\sqrt{6}}{35}$	0	0	0	0	0	0	0	$\frac{3}{140}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	$-\frac{4\sqrt{15}}{175}$	0	0	0	0	0	0	0	$\frac{\sqrt{6}}{140}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$-\frac{\sqrt{6}}{35}$	0	0	0	0	0	0	0	0	$\frac{\sqrt{2}}{140}$	0	0	0	0	0	0	0	0	0	0	0	0	0
598	$\mathbb{Q}_{5,5}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{4}{77}$	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	$-\frac{2\sqrt{210}}{539}$	0	0	0	0	0	0	$-\frac{\sqrt{35}}{1617}$	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{1}{231}$	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

continued ...

Table 9

No.	multipole	matrix												
599	$\mathbb{Q}_{5,4}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{70}}{385}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{30}}{385}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{2\sqrt{105}}{539}$	0	0	0	0	0	$\frac{\sqrt{42}}{1617}$	0	0
		0	0	0	0	0	$-\frac{2\sqrt{105}}{539}$	0	0	0	0	0	$\frac{\sqrt{70}}{8085}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{5}}{1155}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
600	$\mathbb{Q}_{5,3}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	0	$-\frac{4\sqrt{105}}{1155}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	$\frac{4\sqrt{105}}{1155}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{4\sqrt{15}}{1155}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$-\frac{4\sqrt{105}}{1617}$	0	0	0	0	0	$-\frac{\sqrt{35}}{1617}$	0	0	0
		0	0	0	0	$\frac{10\sqrt{42}}{1617}$	0	0	0	0	0	$\frac{\sqrt{105}}{8085}$	0	0
		0	0	0	0	0	$-\frac{4\sqrt{105}}{1617}$	0	0	0	0	0	$\frac{\sqrt{70}}{2695}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{10}}{1155}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 9

No.	multipole	matrix													
601	$\mathbb{Q}_{5,2}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{42}}{231}$	0	0	0	
		0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{210}}{385}$	0	0	
		0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{70}}{385}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{30}}{1155}$	
		0	0	$\frac{\sqrt{70}}{539}$	0	0	0	0	0	0	$\frac{\sqrt{210}}{4851}$	0	0	0	0
		0	0	0	$-\frac{5\sqrt{14}}{539}$	0	0	0	0	0	0	$-\frac{2\sqrt{42}}{4851}$	0	0	0
		0	0	0	0	$\frac{5\sqrt{14}}{539}$	0	0	0	0	0	0	$-\frac{2\sqrt{35}}{8085}$	0	0
		0	0	0	0	0	$-\frac{\sqrt{70}}{539}$	0	0	0	0	0	0	$\frac{8\sqrt{105}}{24255}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{30}}{3465}$
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
602	$\mathbb{Q}_{5,1}^{(1,0;a)}$	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{6}}{231}$	0	0	0	0	
		0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{2}}{77}$	0	0	0	
		0	0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{30}}{385}$	0	0	
		0	0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{30}}{1155}$	0	
		0	$-\frac{2\sqrt{5}}{539}$	0	0	0	0	0	0	$-\frac{5\sqrt{2}}{3234}$	0	0	0	0	0
		0	0	$\frac{10\sqrt{2}}{539}$	0	0	0	0	0	0	$\frac{13\sqrt{6}}{9702}$	0	0	0	0
		0	0	0	$-\frac{20}{539}$	0	0	0	0	0	0	$-\frac{\sqrt{3}}{4851}$	0	0	0
		0	0	0	0	$\frac{10\sqrt{2}}{539}$	0	0	0	0	0	0	$-\frac{\sqrt{5}}{735}$	0	0
		0	0	0	0	0	$-\frac{2\sqrt{5}}{539}$	0	0	0	0	0	0	$\frac{23\sqrt{30}}{48510}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{42}}{9702}$

continued ...

Table 9

No.	multipole	matrix														
603	$\mathbb{Q}_{5,0}^{(1,0;a)}$	0	0	0	0	0	0	0	0	$\frac{2\sqrt{3}}{231}$	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{15}}{231}$	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{15}}{231}$	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{3}}{231}$	0	0	
		$\frac{\sqrt{30}}{1617}$	0	0	0	0	0	0	0	$\frac{\sqrt{5}}{1617}$	0	0	0	0	0	
		0	$-\frac{5\sqrt{30}}{1617}$	0	0	0	0	0	0	0	$-\frac{\sqrt{3}}{539}$	0	0	0	0	0
		0	0	$\frac{10\sqrt{30}}{1617}$	0	0	0	0	0	0	0	$\frac{\sqrt{10}}{1617}$	0	0	0	0
		0	0	0	$-\frac{10\sqrt{30}}{1617}$	0	0	0	0	0	0	0	$\frac{\sqrt{10}}{1617}$	0	0	0
		0	0	0	0	$\frac{5\sqrt{30}}{1617}$	0	0	0	0	0	0	0	$-\frac{\sqrt{3}}{539}$	0	0
0	0	0	0	0	$-\frac{\sqrt{30}}{1617}$	0	0	0	0	0	0	0	$\frac{\sqrt{5}}{1617}$	0		
604	$\mathbb{Q}_{5,-1}^{(1,0;a)}$	0	0	0	0	0	0	0	$-\frac{2\sqrt{30}}{1155}$	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	$\frac{2\sqrt{30}}{385}$	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{2}}{77}$	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{6}}{231}$	0	0	0	
		0	0	0	0	0	0	$-\frac{\sqrt{42}}{9702}$	0	0	0	0	0	0	0	
		$\frac{2\sqrt{5}}{539}$	0	0	0	0	0	0	$\frac{23\sqrt{30}}{48510}$	0	0	0	0	0	0	0
		0	$-\frac{10\sqrt{2}}{539}$	0	0	0	0	0	0	0	$-\frac{\sqrt{5}}{735}$	0	0	0	0	0
		0	0	$\frac{20}{539}$	0	0	0	0	0	0	0	$-\frac{\sqrt{3}}{4851}$	0	0	0	0
		0	0	0	$-\frac{10\sqrt{2}}{539}$	0	0	0	0	0	0	0	$\frac{13\sqrt{6}}{9702}$	0	0	0
0	0	0	0	$\frac{2\sqrt{5}}{539}$	0	0	0	0	0	0	0	$-\frac{5\sqrt{2}}{3234}$	0	0		

continued ...

Table 9

No.	multipole	matrix															
605	$\mathbb{Q}_{5,-2}^{(1,0;a)}$	0	0	0	0	0	0	$\frac{\sqrt{30}}{1155}$	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	$-\frac{\sqrt{70}}{385}$	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$\frac{\sqrt{210}}{385}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{42}}{231}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{\sqrt{30}}{3465}$	0	0	0	0	0	0	0	0	0
		$\frac{\sqrt{70}}{539}$	0	0	0	0	0	0	$\frac{8\sqrt{105}}{24255}$	0	0	0	0	0	0	0	0
		0	$-\frac{5\sqrt{14}}{539}$	0	0	0	0	0	0	0	$-\frac{2\sqrt{35}}{8085}$	0	0	0	0	0	0
		0	0	$\frac{5\sqrt{14}}{539}$	0	0	0	0	0	0	0	$-\frac{2\sqrt{42}}{4851}$	0	0	0	0	0
		0	0	0	$-\frac{\sqrt{70}}{539}$	0	0	0	0	0	0	0	$\frac{\sqrt{210}}{4851}$	0	0	0	0
606	$\mathbb{Q}_{5,-3}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	$\frac{4\sqrt{15}}{1155}$	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	$-\frac{4\sqrt{105}}{1155}$	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	$\frac{4\sqrt{105}}{1155}$	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	$-\frac{\sqrt{10}}{1155}$	0	0	0	0	0	0	0	0	
		$\frac{4\sqrt{105}}{1617}$	0	0	0	0	0	0	$\frac{\sqrt{70}}{2695}$	0	0	0	0	0	0	0	
		0	$-\frac{10\sqrt{42}}{1617}$	0	0	0	0	0	0	0	$\frac{\sqrt{105}}{8085}$	0	0	0	0	0	
		0	0	$\frac{4\sqrt{105}}{1617}$	0	0	0	0	0	0	0	$-\frac{\sqrt{35}}{1617}$	0	0	0	0	

continued ...

Table 9

No.	multipole	matrix															
607	$\mathbb{Q}_{5,-4}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{2\sqrt{30}}{385}$	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	$-\frac{2\sqrt{70}}{385}$	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{2\sqrt{5}}{1155}$	0	0	0	0	0	0	0	0	0
		$\frac{2\sqrt{105}}{539}$	0	0	0	0	0	0	$\frac{\sqrt{70}}{8085}$	0	0	0	0	0	0	0	0
		0	$-\frac{2\sqrt{105}}{539}$	0	0	0	0	0	0	$\frac{\sqrt{42}}{1617}$	0	0	0	0	0	0	0
608	$\mathbb{Q}_{5,-5}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	$\frac{4}{77}$	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	$-\frac{1}{231}$	0	0	0	0	0	0	0	0	
		$\frac{2\sqrt{210}}{539}$	0	0	0	0	0	0	$-\frac{\sqrt{35}}{1617}$	0	0	0	0	0	0	0	

continued ...

Table 9

No.	multipole	matrix												
609	$\mathbb{Q}_{1,1}^{(1,1;a)}$	0	0	$\frac{4\sqrt{10}}{25}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	$\frac{4\sqrt{30}}{25}$	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{8\sqrt{15}}{25}$	0	0	0	0	0	0	0	0
		0	0	0	0	0	$\frac{8}{5}$	0	0	0	0	0	0	0
		0	$\frac{32}{35}$	0	0	0	0	0	0	$-\frac{2\sqrt{10}}{35}$	0	0	0	0
		0	0	$\frac{64\sqrt{10}}{175}$	0	0	0	0	0	0	$-\frac{2\sqrt{30}}{35}$	0	0	0
		0	0	0	$\frac{96\sqrt{5}}{175}$	0	0	0	0	0	0	$-\frac{4\sqrt{15}}{35}$	0	0
		0	0	0	0	$\frac{64\sqrt{10}}{175}$	0	0	0	0	0	0	$-\frac{4}{7}$	0
		0	0	0	0	0	$\frac{32}{35}$	0	0	0	0	0	0	$-\frac{2\sqrt{6}}{7}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
610	$\mathbb{Q}_{1,0}^{(1,1;a)}$	0	$-\frac{8\sqrt{10}}{25}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	$-\frac{8\sqrt{15}}{25}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	$-\frac{8\sqrt{15}}{25}$	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{8\sqrt{10}}{25}$	0	0	0	0	0	0	0	0
		$-\frac{16\sqrt{10}}{35}$	0	0	0	0	0	0	$\frac{4\sqrt{15}}{35}$	0	0	0	0	0
		0	$-\frac{48\sqrt{10}}{175}$	0	0	0	0	0	0	$\frac{4}{7}$	0	0	0	0
		0	0	$-\frac{16\sqrt{10}}{175}$	0	0	0	0	0	0	$\frac{4\sqrt{30}}{35}$	0	0	0
		0	0	0	$\frac{16\sqrt{10}}{175}$	0	0	0	0	0	0	$\frac{4\sqrt{30}}{35}$	0	0
		0	0	0	0	$\frac{48\sqrt{10}}{175}$	0	0	0	0	0	0	$\frac{4}{7}$	0
		0	0	0	0	0	$\frac{16\sqrt{10}}{35}$	0	0	0	0	0	0	$\frac{4\sqrt{15}}{35}$

continued ...

Table 9

No.	multipole	matrix															
611	$\mathbb{Q}_{1,-1}^{(1,1;a)}$	$\epsilon_{\mu\nu}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	$\frac{8\sqrt{15}}{25}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$\frac{4\sqrt{30}}{25}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$\frac{4\sqrt{10}}{25}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{2\sqrt{210}}{35}$	0	0	0	0	0	0	0	0	0
		$-\frac{32}{35}$	0	0	0	0	0	0	$-\frac{2\sqrt{6}}{7}$	0	0	0	0	0	0	0	0
		0	$-\frac{64\sqrt{10}}{175}$	0	0	0	0	0	0	$-\frac{4}{7}$	0	0	0	0	0	0	0
		0	0	$-\frac{96\sqrt{5}}{175}$	0	0	0	0	0	0	$-\frac{4\sqrt{15}}{35}$	0	0	0	0	0	0
		0	0	0	$-\frac{64\sqrt{10}}{175}$	0	0	0	0	0	0	$-\frac{2\sqrt{30}}{35}$	0	0	0	0	0
		0	0	0	0	$-\frac{32}{35}$	0	0	0	0	0	0	$-\frac{2\sqrt{10}}{35}$	0	0	0	0
612	$\mathbb{Q}_{3,3}^{(1,1;a)}$	0	0	0	0	$-\frac{3\sqrt{5}}{7}$	0	0	0	0	0	0	$\frac{2\sqrt{2}}{21}$	0	0		
		0	0	0	0	0	$-\frac{5\sqrt{3}}{7}$	0	0	0	0	0	0	$\frac{4\sqrt{2}}{21}$	0		
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{14}}{21}$		
		0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		0	0	0	$-\frac{20\sqrt{2}}{63}$	0	0	0	0	0	0	$\frac{\sqrt{6}}{21}$	0	0	0		
		0	0	0	0	$-\frac{16\sqrt{5}}{63}$	0	0	0	0	0	0	$\frac{\sqrt{2}}{7}$	0	0		
		0	0	0	0	0	$-\frac{20\sqrt{2}}{63}$	0	0	0	0	0	0	$\frac{\sqrt{3}}{7}$	0		
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{21}}{21}$			
		0	0	0	0	0	0	0	0	0	0	0	0	0			
		0	0	0	0	0	0	0	0	0	0	0	0	0			

continued ...

Table 9

No.	multipole	matrix												
613	$\mathbb{Q}_{3,2}^{(1,1;a)}$	0	0	0	$\frac{2\sqrt{15}}{7}$	0	0	0	0	0	$-\frac{2\sqrt{5}}{21}$	0	0	0
		0	0	0	0	$\frac{\sqrt{10}}{7}$	0	0	0	0	0	$-\frac{2}{7}$	0	0
		0	0	0	0	0	$-\frac{5\sqrt{2}}{7}$	0	0	0	0	0	$-\frac{2\sqrt{3}}{21}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{7}}{21}$
		0	0	$\frac{20\sqrt{3}}{63}$	0	0	0	0	0	$-\frac{4}{21}$	0	0	0	0
		0	0	0	$\frac{4\sqrt{15}}{63}$	0	0	0	0	0	$-\frac{2\sqrt{5}}{21}$	0	0	0
		0	0	0	0	$-\frac{4\sqrt{15}}{63}$	0	0	0	0	0	$-\frac{\sqrt{6}}{21}$	0	0
		0	0	0	0	0	$-\frac{20\sqrt{3}}{63}$	0	0	0	0	0	$\frac{\sqrt{2}}{21}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{7}}{21}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
614	$\mathbb{Q}_{3,1}^{(1,1;a)}$	0	0	$-\frac{3\sqrt{6}}{7}$	0	0	0	0	0	$\frac{4\sqrt{2}}{21}$	0	0	0	0
		0	0	0	$\frac{\sqrt{2}}{7}$	0	0	0	0	0	$\frac{2\sqrt{6}}{21}$	0	0	0
		0	0	0	0	1	0	0	0	0	0	0	0	0
		0	0	0	0	0	$-\frac{\sqrt{15}}{7}$	0	0	0	0	0	$-\frac{2\sqrt{10}}{21}$	0
		0	$-\frac{8\sqrt{15}}{63}$	0	0	0	0	0	0	$\frac{2\sqrt{6}}{21}$	0	0	0	0
		0	0	$\frac{4\sqrt{6}}{63}$	0	0	0	0	0	$\frac{2\sqrt{2}}{21}$	0	0	0	0
		0	0	0	$\frac{16\sqrt{3}}{63}$	0	0	0	0	0	$-\frac{1}{21}$	0	0	0
		0	0	0	0	$\frac{4\sqrt{6}}{63}$	0	0	0	0	0	$-\frac{\sqrt{15}}{21}$	0	0
		0	0	0	0	0	$-\frac{8\sqrt{15}}{63}$	0	0	0	0	0	$-\frac{\sqrt{10}}{21}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{14}}{21}$

continued ...

Table 9

No.	multipole	matrix														
615	$\mathbb{Q}_{3,0}^{(1,1;a)}$	0	$\frac{6}{7}$	0	0	0	0	0	0	$-\frac{2\sqrt{10}}{21}$	0	0	0	0	0	
		0	0	$-\frac{2\sqrt{6}}{7}$	0	0	0	0	0	0	$-\frac{2\sqrt{2}}{21}$	0	0	0	0	0
		0	0	0	$-\frac{2\sqrt{6}}{7}$	0	0	0	0	0	0	$\frac{2\sqrt{2}}{21}$	0	0	0	0
		0	0	0	0	$\frac{6}{7}$	0	0	0	0	0	0	$\frac{2\sqrt{10}}{21}$	0	0	0
		$\frac{20}{63}$	0	0	0	0	0	0	$-\frac{2\sqrt{6}}{21}$	0	0	0	0	0	0	0
		0	$-\frac{4}{9}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$-\frac{16}{63}$	0	0	0	0	0	0	$\frac{2\sqrt{3}}{21}$	0	0	0	0	0
		0	0	0	$\frac{16}{63}$	0	0	0	0	0	0	$\frac{2\sqrt{3}}{21}$	0	0	0	0
		0	0	0	0	$\frac{4}{9}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$-\frac{20}{63}$	0	0	0	0	0	0	0	$-\frac{2\sqrt{6}}{21}$	0
616	$\mathbb{Q}_{3,-1}^{(1,1;a)}$	$-\frac{\sqrt{15}}{7}$	0	0	0	0	0	0	$\frac{2\sqrt{10}}{21}$	0	0	0	0	0	0	
		0	1	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	$\frac{\sqrt{2}}{7}$	0	0	0	0	0	0	$-\frac{2\sqrt{6}}{21}$	0	0	0	0	0
		0	0	0	$-\frac{3\sqrt{6}}{7}$	0	0	0	0	0	0	$-\frac{4\sqrt{2}}{21}$	0	0	0	0
		0	0	0	0	0	0	$\frac{\sqrt{14}}{21}$	0	0	0	0	0	0	0	0
		$\frac{8\sqrt{15}}{63}$	0	0	0	0	0	0	$-\frac{\sqrt{10}}{21}$	0	0	0	0	0	0	0
		0	$-\frac{4\sqrt{6}}{63}$	0	0	0	0	0	0	$-\frac{\sqrt{15}}{21}$	0	0	0	0	0	0
		0	0	$-\frac{16\sqrt{3}}{63}$	0	0	0	0	0	0	$-\frac{1}{21}$	0	0	0	0	0
		0	0	0	$-\frac{4\sqrt{6}}{63}$	0	0	0	0	0	0	$\frac{2\sqrt{2}}{21}$	0	0	0	0
		0	0	0	0	$\frac{8\sqrt{15}}{63}$	0	0	0	0	0	0	$\frac{2\sqrt{6}}{21}$	0	0	0

continued ...

Table 9

No.	multipole	matrix													
617	$\mathbb{Q}_{3,-2}^{(1,1;a)}$	0	0	0	0	0	0	$-\frac{2\sqrt{7}}{21}$	0	0	0	0	0	0	0
		$-\frac{5\sqrt{2}}{7}$	0	0	0	0	0	0	$\frac{2\sqrt{3}}{21}$	0	0	0	0	0	0
		0	$\frac{\sqrt{10}}{7}$	0	0	0	0	0	0	$\frac{2}{7}$	0	0	0	0	0
		0	0	$\frac{2\sqrt{15}}{7}$	0	0	0	0	0	0	$\frac{2\sqrt{5}}{21}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{2\sqrt{7}}{21}$	0	0	0	0	0	0	0
		$\frac{20\sqrt{3}}{63}$	0	0	0	0	0	0	$\frac{\sqrt{2}}{21}$	0	0	0	0	0	0
		0	$\frac{4\sqrt{15}}{63}$	0	0	0	0	0	0	$-\frac{\sqrt{6}}{21}$	0	0	0	0	0
		0	0	$-\frac{4\sqrt{15}}{63}$	0	0	0	0	0	0	$-\frac{2\sqrt{5}}{21}$	0	0	0	0
		0	0	0	$-\frac{20\sqrt{3}}{63}$	0	0	0	0	0	0	$-\frac{4}{21}$	0	0	0
618	$\mathbb{Q}_{3,-3}^{(1,1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	$-\frac{2\sqrt{14}}{21}$	0	0	0	0	0	0	
		$-\frac{5\sqrt{3}}{7}$	0	0	0	0	0	0	$-\frac{4\sqrt{2}}{21}$	0	0	0	0	0	
		0	$-\frac{3\sqrt{5}}{7}$	0	0	0	0	0	0	$-\frac{2\sqrt{2}}{21}$	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	$\frac{\sqrt{21}}{21}$	0	0	0	0	0	0	
		$\frac{20\sqrt{2}}{63}$	0	0	0	0	0	0	$\frac{\sqrt{3}}{7}$	0	0	0	0	0	
		0	$\frac{16\sqrt{5}}{63}$	0	0	0	0	0	0	$\frac{\sqrt{2}}{7}$	0	0	0	0	
		0	0	$\frac{20\sqrt{2}}{63}$	0	0	0	0	0	0	$\frac{\sqrt{6}}{21}$	0	0	0	

continued ...

Table 9

No.	multipole	matrix												
619	$\mathbb{G}_{2,2}^{(a)}$	0	0	0	$\frac{8\sqrt{3}i}{35}$	0	0	0	0	0	$\frac{2i}{35}$	0	0	0
		0	0	0	0	$\frac{16\sqrt{2}i}{35}$	0	0	0	0	0	$\frac{2\sqrt{5}i}{35}$	0	0
		0	0	0	0	0	$\frac{8\sqrt{10}i}{35}$	0	0	0	0	0	$\frac{2\sqrt{15}i}{35}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{35}i}{35}$
		0	0	$-\frac{2\sqrt{15}i}{35}$	0	0	0	0	0	0	$\frac{4\sqrt{5}i}{35}$	0	0	0
		0	0	0	$-\frac{6\sqrt{3}i}{35}$	0	0	0	0	0	0	$\frac{16i}{35}$	0	0
		0	0	0	0	$-\frac{6\sqrt{3}i}{35}$	0	0	0	0	0	$\frac{4\sqrt{30}i}{35}$	0	0
		0	0	0	0	0	$-\frac{2\sqrt{15}i}{35}$	0	0	0	0	0	$\frac{8\sqrt{10}i}{35}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{4\sqrt{35}i}{35}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
620	$\mathbb{G}_{2,1}^{(a)}$	0	0	$-\frac{12\sqrt{3}i}{35}$	0	0	0	0	0	$-\frac{4i}{35}$	0	0	0	0
		0	0	0	$-\frac{4i}{7}$	0	0	0	0	0	$-\frac{4\sqrt{3}i}{35}$	0	0	0
		0	0	0	0	$-\frac{4\sqrt{2}i}{35}$	0	0	0	0	0	$-\frac{4\sqrt{5}i}{35}$	0	0
		0	0	0	0	0	$\frac{4\sqrt{30}i}{35}$	0	0	0	0	0	$-\frac{4\sqrt{5}i}{35}$	0
		0	$\frac{2\sqrt{30}i}{35}$	0	0	0	0	0	0	$-\frac{2\sqrt{3}i}{7}$	0	0	0	0
		0	0	$\frac{4\sqrt{3}i}{35}$	0	0	0	0	0	0	$-\frac{22i}{35}$	0	0	0
		0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{2}i}{5}$	0	0	0
		0	0	0	0	$-\frac{4\sqrt{3}i}{35}$	0	0	0	0	0	$-\frac{2\sqrt{30}i}{35}$	0	0
		0	0	0	0	0	$-\frac{2\sqrt{30}i}{35}$	0	0	0	0	0	$\frac{2\sqrt{5}i}{35}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{7}i}{7}$

continued ...

Table 9

No.	multipole	matrix															
621	$\mathbb{G}_{2,0}^{(a)}$	0	$\frac{24i}{35}$	0	0	0	0	0	0	$\frac{2\sqrt{10}i}{35}$	0	0	0	0	0		
		0	0	$\frac{4\sqrt{6}i}{35}$	0	0	0	0	0	0	$\frac{6\sqrt{2}i}{35}$	0	0	0	0	0	
		0	0	0	$-\frac{4\sqrt{6}i}{35}$	0	0	0	0	0	0	$\frac{6\sqrt{2}i}{35}$	0	0	0	0	
		0	0	0	0	$-\frac{24i}{35}$	0	0	0	0	0	0	$\frac{2\sqrt{10}i}{35}$	0	0	0	
		$-\frac{2i}{7}$	0	0	0	0	0	0	$\frac{2\sqrt{6}i}{7}$	0	0	0	0	0	0	0	
		0	$\frac{2i}{35}$	0	0	0	0	0	0	$\frac{6\sqrt{10}i}{35}$	0	0	0	0	0	0	0
		0	0	$\frac{8i}{35}$	0	0	0	0	0	0	$\frac{4\sqrt{3}i}{35}$	0	0	0	0	0	0
		0	0	0	$\frac{8i}{35}$	0	0	0	0	0	0	$-\frac{4\sqrt{3}i}{35}$	0	0	0	0	0
		0	0	0	0	$\frac{2i}{35}$	0	0	0	0	0	0	$-\frac{6\sqrt{10}i}{35}$	0	0	0	0
0	0	0	0	0	$-\frac{2i}{7}$	0	0	0	0	0	0	0	$-\frac{2\sqrt{6}i}{7}$	0	0		
622	$\mathbb{G}_{2,-1}^{(a)}$	$-\frac{4\sqrt{30}i}{35}$	0	0	0	0	0	0	$-\frac{4\sqrt{5}i}{35}$	0	0	0	0	0	0	0	
		0	$\frac{4\sqrt{2}i}{35}$	0	0	0	0	0	0	$-\frac{4\sqrt{5}i}{35}$	0	0	0	0	0	0	
		0	0	$\frac{4i}{7}$	0	0	0	0	0	0	$-\frac{4\sqrt{3}i}{35}$	0	0	0	0	0	
		0	0	0	$\frac{12\sqrt{3}i}{35}$	0	0	0	0	0	0	$-\frac{4i}{35}$	0	0	0	0	
		0	0	0	0	0	0	$-\frac{2\sqrt{7}i}{7}$	0	0	0	0	0	0	0	0	
		$-\frac{2\sqrt{30}i}{35}$	0	0	0	0	0	0	$-\frac{2\sqrt{5}i}{35}$	0	0	0	0	0	0	0	0
		0	$-\frac{4\sqrt{3}i}{35}$	0	0	0	0	0	0	$\frac{2\sqrt{30}i}{35}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{2}i}{5}$	0	0	0	0	0	0
		0	0	0	$\frac{4\sqrt{3}i}{35}$	0	0	0	0	0	0	0	$\frac{22i}{35}$	0	0	0	0
0	0	0	0	$\frac{2\sqrt{30}i}{35}$	0	0	0	0	0	0	0	$\frac{2\sqrt{3}i}{7}$	0	0	0		

continued ...

Table 9

No.	multipole	matrix													
623	$\mathbb{G}_{2,-2}^{(a)}$	0	0	0	0	0	0	$\frac{2\sqrt{35}i}{35}$	0	0	0	0	0	0	0
		$-\frac{8\sqrt{10}i}{35}$	0	0	0	0	0	0	$\frac{2\sqrt{15}i}{35}$	0	0	0	0	0	0
		0	$-\frac{16\sqrt{2}i}{35}$	0	0	0	0	0	0	$\frac{2\sqrt{5}i}{35}$	0	0	0	0	0
		0	0	$-\frac{8\sqrt{3}i}{35}$	0	0	0	0	0	0	$\frac{2i}{35}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{4\sqrt{35}i}{35}$	0	0	0	0	0	0	0
		$-\frac{2\sqrt{15}i}{35}$	0	0	0	0	0	0	$-\frac{8\sqrt{10}i}{35}$	0	0	0	0	0	0
		0	$-\frac{6\sqrt{3}i}{35}$	0	0	0	0	0	0	$-\frac{4\sqrt{30}i}{35}$	0	0	0	0	0
		0	0	$-\frac{6\sqrt{3}i}{35}$	0	0	0	0	0	0	$-\frac{16i}{35}$	0	0	0	0
		0	0	0	$-\frac{2\sqrt{15}i}{35}$	0	0	0	0	0	0	0	$-\frac{4\sqrt{5}i}{35}$	0	0
624	$\mathbb{G}_{4,4}^{(a)}$	0	0	0	0	0	$-\frac{4\sqrt{14}i}{105}$	0	0	0	0	0	$-\frac{4\sqrt{21}i}{175}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{4i}{25}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	$\frac{4\sqrt{14}i}{105}$	0	0	0	0	0	$-\frac{8\sqrt{35}i}{525}$	0	0	
		0	0	0	0	0	$\frac{4\sqrt{14}i}{105}$	0	0	0	0	0	$-\frac{16\sqrt{21}i}{525}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{4\sqrt{6}i}{75}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	

continued ...

Table 9

No.	multipole	matrix
625	$\mathbb{G}_{4,3}^{(a)}$	0 0 0 0 $\frac{2\sqrt{35}i}{105}$ 0 0 0 0 0 0 $\frac{6\sqrt{14}i}{175}$ 0 0
		0 0 0 0 0 $-\frac{2\sqrt{21}i}{105}$ 0 0 0 0 0 0 $\frac{4\sqrt{14}i}{175}$ 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 $-\frac{2\sqrt{2}i}{25}$
		0 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 $-\frac{4\sqrt{14}i}{105}$ 0 0 0 0 0 0 $\frac{2\sqrt{42}i}{105}$ 0 0 0 0
		0 0 0 0 0 0 0 0 0 0 0 $\frac{2\sqrt{14}i}{75}$ 0 0
		0 0 0 0 0 $\frac{4\sqrt{14}i}{105}$ 0 0 0 0 0 0 $-\frac{2\sqrt{21}i}{525}$ 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 $-\frac{2\sqrt{3}i}{25}$
		0 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 0
626	$\mathbb{G}_{4,2}^{(a)}$	0 0 0 $-\frac{4\sqrt{5}i}{105}$ 0 0 0 0 0 0 $-\frac{6\sqrt{15}i}{175}$ 0 0 0
		0 0 0 0 $\frac{2\sqrt{30}i}{105}$ 0 0 0 0 0 0 $-\frac{2\sqrt{3}i}{175}$ 0 0
		0 0 0 0 0 $-\frac{2\sqrt{6}i}{105}$ 0 0 0 0 0 0 $\frac{22i}{175}$ 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 $-\frac{2\sqrt{21}i}{175}$
		0 0 $\frac{4i}{35}$ 0 0 0 0 0 0 $-\frac{8\sqrt{3}i}{105}$ 0 0 0 0
		0 0 0 $-\frac{4\sqrt{5}i}{105}$ 0 0 0 0 0 0 $-\frac{4\sqrt{15}i}{525}$ 0 0 0
		0 0 0 0 $-\frac{4\sqrt{5}i}{105}$ 0 0 0 0 0 0 $\frac{34\sqrt{2}i}{525}$ 0 0
		0 0 0 0 0 $\frac{4i}{35}$ 0 0 0 0 0 0 $\frac{6\sqrt{6}i}{175}$ 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 $-\frac{4\sqrt{21}i}{175}$
		0 0 0 0 0 0 0 0 0 0 0 0 0 0

continued ...

Table 9

No.	multipole	matrix												
627	$\mathbb{G}_{4,1}^{(a)}$	0	0	$\frac{2\sqrt{10}i}{105}$	0	0	0	0	0	$\frac{4\sqrt{30}i}{175}$	0	0	0	0
		0	0	0	$-\frac{2\sqrt{30}i}{105}$	0	0	0	0	0	$-\frac{2\sqrt{10}i}{175}$	0	0	0
		0	0	0	0	$\frac{2\sqrt{15}i}{105}$	0	0	0	0	0	$-\frac{8\sqrt{6}i}{175}$	0	0
		0	0	0	0	0	$-\frac{2i}{105}$	0	0	0	0	0	$\frac{6\sqrt{6}i}{175}$	0
		0	$-\frac{8i}{105}$	0	0	0	0	0	$\frac{4\sqrt{10}i}{105}$	0	0	0	0	0
		0	0	$\frac{4\sqrt{10}i}{105}$	0	0	0	0	0	$-\frac{4\sqrt{30}i}{525}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{15}i}{75}$	0	0	0
		0	0	0	0	$-\frac{4\sqrt{10}i}{105}$	0	0	0	0	0	$-\frac{2i}{525}$	0	0
		0	0	0	0	0	$\frac{8i}{105}$	0	0	0	0	0	$\frac{26\sqrt{6}i}{525}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{210}i}{525}$
628	$\mathbb{G}_{4,0}^{(a)}$	0	$-\frac{4i}{105}$	0	0	0	0	0	$-\frac{6\sqrt{10}i}{175}$	0	0	0	0	
		0	0	$\frac{4\sqrt{6}i}{105}$	0	0	0	0	0	$\frac{2\sqrt{2}i}{35}$	0	0	0	
		0	0	0	$-\frac{4\sqrt{6}i}{105}$	0	0	0	0	0	$\frac{2\sqrt{2}i}{35}$	0	0	
		0	0	0	0	$\frac{4i}{105}$	0	0	0	0	0	$-\frac{6\sqrt{10}i}{175}$	0	
		$\frac{4i}{105}$	0	0	0	0	0	$-\frac{4\sqrt{6}i}{105}$	0	0	0	0	0	
		0	$-\frac{4i}{35}$	0	0	0	0	0	$\frac{16\sqrt{10}i}{525}$	0	0	0	0	
		0	0	$\frac{8i}{105}$	0	0	0	0	0	$\frac{4\sqrt{3}i}{105}$	0	0	0	
		0	0	0	$\frac{8i}{105}$	0	0	0	0	0	$-\frac{4\sqrt{3}i}{105}$	0	0	
		0	0	0	0	$-\frac{4i}{35}$	0	0	0	0	0	$-\frac{16\sqrt{10}i}{525}$	0	
		0	0	0	0	0	$\frac{4i}{105}$	0	0	0	0	0	$\frac{4\sqrt{6}i}{105}$	

continued ...

Table 9

No.	multipole	matrix													
629	$\mathbb{G}_{4,-1}^{(a)}$	$\frac{2i}{105}$	0	0	0	0	0	0	$\frac{6\sqrt{6}i}{175}$	0	0	0	0	0	0
		0	$-\frac{2\sqrt{15}i}{105}$	0	0	0	0	0	0	$-\frac{8\sqrt{6}i}{175}$	0	0	0	0	0
		0	0	$\frac{2\sqrt{30}i}{105}$	0	0	0	0	0	0	$-\frac{2\sqrt{10}i}{175}$	0	0	0	0
		0	0	0	$-\frac{2\sqrt{10}i}{105}$	0	0	0	0	0	0	$\frac{4\sqrt{30}i}{175}$	0	0	0
		0	0	0	0	0	0	$\frac{2\sqrt{210}i}{525}$	0	0	0	0	0	0	0
		$\frac{8i}{105}$	0	0	0	0	0	0	$-\frac{26\sqrt{6}i}{525}$	0	0	0	0	0	0
		0	$-\frac{4\sqrt{10}i}{105}$	0	0	0	0	0	0	$\frac{2i}{525}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{15}i}{75}$	0	0	0	0
		0	0	0	$\frac{4\sqrt{10}i}{105}$	0	0	0	0	0	0	$\frac{4\sqrt{30}i}{525}$	0	0	0
		0	0	0	0	$-\frac{8i}{105}$	0	0	0	0	0	0	$-\frac{4\sqrt{10}i}{105}$	0	0
630	$\mathbb{G}_{4,-2}^{(a)}$	0	0	0	0	0	0	$-\frac{2\sqrt{21}i}{175}$	0	0	0	0	0	0	
		$\frac{2\sqrt{6}i}{105}$	0	0	0	0	0	0	$\frac{22i}{175}$	0	0	0	0	0	
		0	$-\frac{2\sqrt{30}i}{105}$	0	0	0	0	0	0	$-\frac{2\sqrt{3}i}{175}$	0	0	0	0	
		0	0	$\frac{4\sqrt{5}i}{105}$	0	0	0	0	0	0	$-\frac{6\sqrt{15}i}{175}$	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	$\frac{4\sqrt{21}i}{175}$	0	0	0	0	0	0	
		$\frac{4i}{35}$	0	0	0	0	0	0	$-\frac{6\sqrt{6}i}{175}$	0	0	0	0	0	
		0	$-\frac{4\sqrt{5}i}{105}$	0	0	0	0	0	0	$-\frac{34\sqrt{2}i}{525}$	0	0	0	0	
		0	0	$-\frac{4\sqrt{5}i}{105}$	0	0	0	0	0	0	$\frac{4\sqrt{15}i}{525}$	0	0	0	
		0	0	0	$\frac{4i}{35}$	0	0	0	0	0	0	$\frac{8\sqrt{3}i}{105}$	0	0	

continued ...

Table 9

No.	multipole	matrix												
631	$\mathbb{G}_{4,-3}^{(a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{2\sqrt{2}i}{25}$	0	0	0	0	0	0
		$\frac{2\sqrt{21}i}{105}$	0	0	0	0	0	0	$\frac{4\sqrt{14}i}{175}$	0	0	0	0	0
		0	$-\frac{2\sqrt{35}i}{105}$	0	0	0	0	0	0	$\frac{6\sqrt{14}i}{175}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{2\sqrt{3}i}{25}$	0	0	0	0	0	0
		$\frac{4\sqrt{14}i}{105}$	0	0	0	0	0	0	$\frac{2\sqrt{21}i}{525}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	$-\frac{2\sqrt{14}i}{75}$	0	0	0	0
		0	0	$-\frac{4\sqrt{14}i}{105}$	0	0	0	0	0	0	$-\frac{2\sqrt{42}i}{105}$	0	0	0
632	$\mathbb{G}_{4,-4}^{(a)}$	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	$-\frac{4i}{25}$	0	0	0	0	0	
		$\frac{4\sqrt{14}i}{105}$	0	0	0	0	0	0	$-\frac{4\sqrt{21}i}{175}$	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	$\frac{4\sqrt{6}i}{75}$	0	0	0	0	0	
		$\frac{4\sqrt{14}i}{105}$	0	0	0	0	0	0	$\frac{16\sqrt{21}i}{525}$	0	0	0	0	
		0	$\frac{4\sqrt{14}i}{105}$	0	0	0	0	0	0	$\frac{8\sqrt{35}i}{525}$	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	

continued ...

Table 9

No.	multipole	matrix												
633	$\mathbb{G}_{2,2}^{(1,-1;a)}$	0	0	0	$-\frac{3\sqrt{2}i}{35}$	0	0	0	0	0	$-\frac{2\sqrt{6}i}{35}$	0	0	0
		0	0	0	0	$-\frac{4\sqrt{3}i}{35}$	0	0	0	0	0	$-\frac{2\sqrt{30}i}{35}$	0	0
		0	0	0	0	0	$-\frac{2\sqrt{15}i}{35}$	0	0	0	0	0	$-\frac{6\sqrt{10}i}{35}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{210}i}{35}$
		0	0	$\frac{2\sqrt{10}i}{35}$	0	0	0	0	0	$\frac{\sqrt{30}i}{35}$	0	0	0	0
		0	0	0	$\frac{6\sqrt{2}i}{35}$	0	0	0	0	0	$\frac{4\sqrt{6}i}{35}$	0	0	0
		0	0	0	0	$\frac{6\sqrt{2}i}{35}$	0	0	0	0	0	$\frac{6\sqrt{5}i}{35}$	0	0
		0	0	0	0	0	$\frac{2\sqrt{10}i}{35}$	0	0	0	0	0	$\frac{4\sqrt{15}i}{35}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{210}i}{35}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
634	$\mathbb{G}_{2,1}^{(1,-1;a)}$	0	0	$\frac{9\sqrt{2}i}{70}$	0	0	0	0	0	$\frac{4\sqrt{6}i}{35}$	0	0	0	0
		0	0	0	$\frac{\sqrt{6}i}{14}$	0	0	0	0	0	$\frac{12\sqrt{2}i}{35}$	0	0	0
		0	0	0	0	$\frac{\sqrt{3}i}{35}$	0	0	0	0	0	$\frac{4\sqrt{30}i}{35}$	0	0
		0	0	0	0	0	$-\frac{3\sqrt{5}i}{35}$	0	0	0	0	0	$\frac{4\sqrt{30}i}{35}$	0
		0	$-\frac{4\sqrt{5}i}{35}$	0	0	0	0	0	$-\frac{3\sqrt{2}i}{14}$	0	0	0	0	0
		0	0	$-\frac{4\sqrt{2}i}{35}$	0	0	0	0	0	$-\frac{11\sqrt{6}i}{70}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{3}i}{5}$	0	0	0
		0	0	0	0	$\frac{4\sqrt{2}i}{35}$	0	0	0	0	0	$-\frac{3\sqrt{5}i}{35}$	0	0
		0	0	0	0	0	$\frac{4\sqrt{5}i}{35}$	0	0	0	0	0	$\frac{\sqrt{30}i}{70}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{42}i}{14}$

continued ...

Table 9

No.	multipole	matrix																
635	$\mathbb{G}_{2,0}^{(1,-1;a)}$	0	$-\frac{3\sqrt{6}i}{35}$	0	0	0	0	0	0	$-\frac{4\sqrt{15}i}{35}$	0	0	0	0	0	0		
		0	0	$-\frac{3i}{35}$	0	0	0	0	0	0	$-\frac{12\sqrt{3}i}{35}$	0	0	0	0	0	0	
		0	0	0	$\frac{3i}{35}$	0	0	0	0	0	0	$-\frac{12\sqrt{3}i}{35}$	0	0	0	0	0	
		0	0	0	0	$\frac{3\sqrt{6}i}{35}$	0	0	0	0	0	0	$-\frac{4\sqrt{15}i}{35}$	0	0	0	0	
		$\frac{2\sqrt{6}i}{21}$	0	0	0	0	0	0	$\frac{3i}{7}$	0	0	0	0	0	0	0	0	
		0	$-\frac{2\sqrt{6}i}{105}$	0	0	0	0	0	0	$\frac{3\sqrt{15}i}{35}$	0	0	0	0	0	0	0	0
		0	0	$-\frac{8\sqrt{6}i}{105}$	0	0	0	0	0	0	$\frac{3\sqrt{2}i}{35}$	0	0	0	0	0	0	0
		0	0	0	$-\frac{8\sqrt{6}i}{105}$	0	0	0	0	0	0	$-\frac{3\sqrt{2}i}{35}$	0	0	0	0	0	0
		0	0	0	0	$-\frac{2\sqrt{6}i}{105}$	0	0	0	0	0	0	$-\frac{3\sqrt{15}i}{35}$	0	0	0	0	0
		0	0	0	0	0	$\frac{2\sqrt{6}i}{21}$	0	0	0	0	0	0	0	0	$-\frac{3i}{7}$	0	0
636	$\mathbb{G}_{2,-1}^{(1,-1;a)}$	$\frac{3\sqrt{5}i}{35}$	0	0	0	0	0	0	$\frac{4\sqrt{30}i}{35}$	0	0	0	0	0	0	0	0	
		0	$-\frac{\sqrt{3}i}{35}$	0	0	0	0	0	0	$\frac{4\sqrt{30}i}{35}$	0	0	0	0	0	0	0	0
		0	0	$-\frac{\sqrt{6}i}{14}$	0	0	0	0	0	0	$\frac{12\sqrt{2}i}{35}$	0	0	0	0	0	0	0
		0	0	0	$-\frac{9\sqrt{2}i}{70}$	0	0	0	0	0	0	$\frac{4\sqrt{6}i}{35}$	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{\sqrt{42}i}{14}$	0	0	0	0	0	0	0	0	0	0
		$\frac{4\sqrt{5}i}{35}$	0	0	0	0	0	0	$-\frac{\sqrt{30}i}{70}$	0	0	0	0	0	0	0	0	0
		0	$\frac{4\sqrt{2}i}{35}$	0	0	0	0	0	0	0	$\frac{3\sqrt{5}i}{35}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$\frac{\sqrt{3}i}{5}$	0	0	0	0	0	0	0
		0	0	0	$-\frac{4\sqrt{2}i}{35}$	0	0	0	0	0	0	0	$\frac{11\sqrt{6}i}{70}$	0	0	0	0	0
		0	0	0	0	$-\frac{4\sqrt{5}i}{35}$	0	0	0	0	0	0	0	0	0	$\frac{3\sqrt{2}i}{14}$	0	0

continued ...

Table 9

No.	multipole	matrix																
637	$\mathbb{G}_{2,-2}^{(1,-1;a)}$	0	0	0	0	0	0	$-\frac{2\sqrt{210}i}{35}$	0	0	0	0	0	0	0	0	0	
		$\frac{2\sqrt{15}i}{35}$	0	0	0	0	0	0	$-\frac{6\sqrt{10}i}{35}$	0	0	0	0	0	0	0	0	0
		0	$\frac{4\sqrt{3}i}{35}$	0	0	0	0	0	0	0	$-\frac{2\sqrt{30}i}{35}$	0	0	0	0	0	0	0
		0	0	$\frac{3\sqrt{2}i}{35}$	0	0	0	0	0	0	0	$-\frac{2\sqrt{6}i}{35}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{\sqrt{210}i}{35}$	0	0	0	0	0	0	0	0	0	0
		$\frac{2\sqrt{10}i}{35}$	0	0	0	0	0	0	$-\frac{4\sqrt{15}i}{35}$	0	0	0	0	0	0	0	0	0
		0	$\frac{6\sqrt{2}i}{35}$	0	0	0	0	0	0	0	$-\frac{6\sqrt{5}i}{35}$	0	0	0	0	0	0	0
		0	0	$\frac{6\sqrt{2}i}{35}$	0	0	0	0	0	0	0	$-\frac{4\sqrt{6}i}{35}$	0	0	0	0	0	0
		0	0	0	$\frac{2\sqrt{10}i}{35}$	0	0	0	0	0	0	0	$-\frac{\sqrt{30}i}{35}$	0	0	0	0	0
638	$\mathbb{G}_{4,4}^{(1,-1;a)}$	0	0	0	0	0	$\frac{\sqrt{2}i}{70}$	0	0	0	0	0	0	$\frac{\sqrt{3}i}{35}$	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{7}i}{35}$	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	$-\frac{\sqrt{2}i}{35}$	0	0	0	0	0	0	$-\frac{\sqrt{5}i}{35}$	0	0	0	0	
		0	0	0	0	0	$-\frac{\sqrt{2}i}{35}$	0	0	0	0	0	0	$-\frac{2\sqrt{3}i}{35}$	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{42}i}{70}$	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

continued ...

Table 9

No.	multipole	matrix												
639	$\mathbb{G}_{4,3}^{(1,-1;a)}$	0	0	0	0	$-\frac{\sqrt{5}i}{140}$	0	0	0	0	0	$-\frac{3\sqrt{2}i}{70}$	0	0
		0	0	0	0	0	$\frac{\sqrt{3}i}{140}$	0	0	0	0	0	$-\frac{\sqrt{2}i}{35}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{14}i}{70}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$\frac{\sqrt{2}i}{35}$	0	0	0	0	0	$\frac{\sqrt{6}i}{28}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{2}i}{20}$	0	0
		0	0	0	0	0	$-\frac{\sqrt{2}i}{35}$	0	0	0	0	0	$-\frac{\sqrt{3}i}{140}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{3\sqrt{21}i}{140}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
640	$\mathbb{G}_{4,2}^{(1,-1;a)}$	0	0	0	$\frac{\sqrt{35}i}{490}$	0	0	0	0	0	$\frac{3\sqrt{105}i}{490}$	0	0	0
		0	0	0	0	$-\frac{\sqrt{210}i}{980}$	0	0	0	0	0	$\frac{\sqrt{21}i}{490}$	0	0
		0	0	0	0	0	$\frac{\sqrt{42}i}{980}$	0	0	0	0	0	$-\frac{11\sqrt{7}i}{490}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{3}i}{70}$
		0	0	$-\frac{3\sqrt{7}i}{245}$	0	0	0	0	0	$-\frac{\sqrt{21}i}{49}$	0	0	0	0
		0	0	0	$\frac{\sqrt{35}i}{245}$	0	0	0	0	0	$-\frac{\sqrt{105}i}{490}$	0	0	0
		0	0	0	0	$\frac{\sqrt{35}i}{245}$	0	0	0	0	0	$\frac{17\sqrt{14}i}{980}$	0	0
		0	0	0	0	0	$-\frac{3\sqrt{7}i}{245}$	0	0	0	0	0	$\frac{9\sqrt{42}i}{980}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{3\sqrt{3}i}{70}$
		0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 9

No.	multipole	matrix														
641	$\mathbb{G}_{4,1}^{(1,-1;a)}$	0	0	$-\frac{\sqrt{70i}}{980}$	0	0	0	0	0	0	$-\frac{\sqrt{210i}}{245}$	0	0	0	0	
		0	0	0	$\frac{\sqrt{210i}}{980}$	0	0	0	0	0	0	$\frac{\sqrt{70i}}{490}$	0	0	0	0
		0	0	0	0	$-\frac{\sqrt{105i}}{980}$	0	0	0	0	0	0	$\frac{2\sqrt{42i}}{245}$	0	0	0
		0	0	0	0	0	$\frac{\sqrt{7i}}{980}$	0	0	0	0	0	0	$-\frac{3\sqrt{42i}}{490}$	0	0
		0	$\frac{2\sqrt{7i}}{245}$	0	0	0	0	0	0	$\frac{\sqrt{70i}}{98}$	0	0	0	0	0	0
		0	0	$-\frac{\sqrt{70i}}{245}$	0	0	0	0	0	0	$-\frac{\sqrt{210i}}{490}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{105i}}{140}$	0	0	0	0
		0	0	0	0	$\frac{\sqrt{70i}}{245}$	0	0	0	0	0	0	$-\frac{\sqrt{7i}}{980}$	0	0	0
		0	0	0	0	0	$-\frac{2\sqrt{7i}}{245}$	0	0	0	0	0	0	$\frac{13\sqrt{42i}}{980}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{30i}}{140}$	0
642	$\mathbb{G}_{4,0}^{(1,-1;a)}$	0	$\frac{\sqrt{7i}}{490}$	0	0	0	0	0	0	$\frac{3\sqrt{70i}}{490}$	0	0	0	0	0	
		0	0	$-\frac{\sqrt{42i}}{490}$	0	0	0	0	0	0	$-\frac{\sqrt{14i}}{98}$	0	0	0	0	0
		0	0	0	$\frac{\sqrt{42i}}{490}$	0	0	0	0	0	0	$-\frac{\sqrt{14i}}{98}$	0	0	0	0
		0	0	0	0	$-\frac{\sqrt{7i}}{490}$	0	0	0	0	0	0	$\frac{3\sqrt{70i}}{490}$	0	0	0
		$-\frac{\sqrt{7i}}{245}$	0	0	0	0	0	0	$-\frac{\sqrt{42i}}{98}$	0	0	0	0	0	0	0
		0	$\frac{3\sqrt{7i}}{245}$	0	0	0	0	0	0	$\frac{2\sqrt{70i}}{245}$	0	0	0	0	0	0
		0	0	$-\frac{2\sqrt{7i}}{245}$	0	0	0	0	0	0	$\frac{\sqrt{21i}}{98}$	0	0	0	0	0
		0	0	0	$-\frac{2\sqrt{7i}}{245}$	0	0	0	0	0	0	$-\frac{\sqrt{21i}}{98}$	0	0	0	0
		0	0	0	0	$\frac{3\sqrt{7i}}{245}$	0	0	0	0	0	0	$-\frac{2\sqrt{70i}}{245}$	0	0	0
		0	0	0	0	0	$-\frac{\sqrt{7i}}{245}$	0	0	0	0	0	0	$\frac{\sqrt{42i}}{98}$	0	0

continued ...

Table 9

No.	multipole	matrix													
643	$\mathbb{G}_{4,-1}^{(1,-1;a)}$	$-\frac{\sqrt{7}i}{980}$	0	0	0	0	0	0	$-\frac{3\sqrt{42}i}{490}$	0	0	0	0	0	0
		0	$\frac{\sqrt{105}i}{980}$	0	0	0	0	0	0	$\frac{2\sqrt{42}i}{245}$	0	0	0	0	0
		0	0	$-\frac{\sqrt{210}i}{980}$	0	0	0	0	0	0	0	$\frac{\sqrt{70}i}{490}$	0	0	0
		0	0	0	$\frac{\sqrt{70}i}{980}$	0	0	0	0	0	0	0	$-\frac{\sqrt{210}i}{245}$	0	0
		0	0	0	0	0	0	$\frac{\sqrt{30}i}{140}$	0	0	0	0	0	0	0
		$-\frac{2\sqrt{7}i}{245}$	0	0	0	0	0	0	$-\frac{13\sqrt{42}i}{980}$	0	0	0	0	0	0
		0	$\frac{\sqrt{70}i}{245}$	0	0	0	0	0	0	$\frac{\sqrt{7}i}{980}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$\frac{\sqrt{105}i}{140}$	0	0	0	0
		0	0	0	$-\frac{\sqrt{70}i}{245}$	0	0	0	0	0	0	0	$\frac{\sqrt{210}i}{490}$	0	0
		0	0	0	0	$\frac{2\sqrt{7}i}{245}$	0	0	0	0	0	0	0	$-\frac{\sqrt{70}i}{98}$	0
644	$\mathbb{G}_{4,-2}^{(1,-1;a)}$	0	0	0	0	0	0	$\frac{\sqrt{3}i}{70}$	0	0	0	0	0	0	
		$-\frac{\sqrt{42}i}{980}$	0	0	0	0	0	0	$-\frac{11\sqrt{7}i}{490}$	0	0	0	0	0	
		0	$\frac{\sqrt{210}i}{980}$	0	0	0	0	0	0	$\frac{\sqrt{21}i}{490}$	0	0	0	0	
		0	0	$-\frac{\sqrt{35}i}{490}$	0	0	0	0	0	0	$\frac{3\sqrt{105}i}{490}$	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	$\frac{3\sqrt{3}i}{70}$	0	0	0	0	0	0	
		$-\frac{3\sqrt{7}i}{245}$	0	0	0	0	0	0	$-\frac{9\sqrt{42}i}{980}$	0	0	0	0	0	
		0	$\frac{\sqrt{35}i}{245}$	0	0	0	0	0	0	$-\frac{17\sqrt{14}i}{980}$	0	0	0	0	
		0	0	$\frac{\sqrt{35}i}{245}$	0	0	0	0	0	0	$\frac{\sqrt{105}i}{490}$	0	0	0	
		0	0	0	$-\frac{3\sqrt{7}i}{245}$	0	0	0	0	0	0	0	$\frac{\sqrt{21}i}{49}$	0	

continued ...

Table 9

No.	multipole	matrix													
645	$\mathbb{G}_{4,-3}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{\sqrt{14}i}{70}$	0	0	0	0	0	0	0
		$-\frac{\sqrt{3}i}{140}$	0	0	0	0	0	0	$-\frac{\sqrt{2}i}{35}$	0	0	0	0	0	0
		0	$\frac{\sqrt{5}i}{140}$	0	0	0	0	0	0	$-\frac{3\sqrt{2}i}{70}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{3\sqrt{21}i}{140}$	0	0	0	0	0	0	0
		$-\frac{\sqrt{2}i}{35}$	0	0	0	0	0	0	$\frac{\sqrt{3}i}{140}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$-\frac{\sqrt{2}i}{20}$	0	0	0	0	0
		0	0	$\frac{\sqrt{2}i}{35}$	0	0	0	0	0	0	$-\frac{\sqrt{6}i}{28}$	0	0	0	0
646	$\mathbb{G}_{4,-4}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	$\frac{\sqrt{7}i}{35}$	0	0	0	0	0	0	
		$-\frac{\sqrt{2}i}{70}$	0	0	0	0	0	0	$\frac{\sqrt{3}i}{35}$	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	$\frac{\sqrt{42}i}{70}$	0	0	0	0	0	0	
		$-\frac{\sqrt{2}i}{35}$	0	0	0	0	0	0	$\frac{2\sqrt{3}i}{35}$	0	0	0	0	0	
		0	$-\frac{\sqrt{2}i}{35}$	0	0	0	0	0	0	$\frac{\sqrt{5}i}{35}$	0	0	0	0	

continued ...

Table 9

No.	multipole	matrix
647	$\mathbb{G}_{6,6}^{(1,-1;a)}$	0 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 $\frac{10\sqrt{3}i}{231}$
		0 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 0
648	$\mathbb{G}_{6,5}^{(1,-1;a)}$	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 $-\frac{5\sqrt{7}i}{231}$ 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 $\frac{5\sqrt{5}i}{231}$
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

continued ...

Table 9

No.	multipole	matrix
649	$\mathbb{G}_{6,4}^{(1,-1;a)}$	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0 0 0 $\frac{5\sqrt{462}i}{2541}$ 0 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 $-\frac{5\sqrt{770}i}{2541}$ 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 $\frac{10\sqrt{55}i}{2541}$
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
650	$\mathbb{G}_{6,3}^{(1,-1;a)}$	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0 0 $-\frac{5\sqrt{231}i}{2541}$ 0 0 0
		0 0 0 0 0 0 0 0 0 0 0 0 $\frac{5\sqrt{77}i}{847}$ 0 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 $-\frac{5\sqrt{462}i}{2541}$ 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 $\frac{5\sqrt{66}i}{2541}$
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

continued ...

Table 9

No.	multipole	matrix													
651	$\mathbb{G}_{6,2}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$\frac{10\sqrt{231}i}{7623}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	$-\frac{10\sqrt{1155}i}{7623}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$\frac{10\sqrt{154}i}{2541}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	$-\frac{10\sqrt{462}i}{7623}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{10\sqrt{33}i}{7623}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
652	$\mathbb{G}_{6,1}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	$-\frac{5\sqrt{154}i}{5082}$	0	0	0	0	
		0	0	0	0	0	0	0	0	$\frac{25\sqrt{462}i}{15246}$	0	0	0	0	
		0	0	0	0	0	0	0	0	0	$-\frac{25\sqrt{231}i}{7623}$	0	0	0	
		0	0	0	0	0	0	0	0	0	0	$\frac{5\sqrt{385}i}{2541}$	0	0	
		0	0	0	0	0	0	0	0	0	0	0	$-\frac{5\sqrt{2310}i}{15246}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{5\sqrt{66}i}{15246}$	

continued ...

Table 9

No.	multipole	matrix													
653	$\mathbb{G}_{6,0}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	$\frac{5\sqrt{11}i}{2541}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	$-\frac{5\sqrt{165}i}{2541}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$\frac{25\sqrt{22}i}{2541}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$-\frac{25\sqrt{22}i}{2541}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$\frac{5\sqrt{165}i}{2541}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	$-\frac{5\sqrt{11}i}{2541}$	0	0
654	$\mathbb{G}_{6,-1}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	$-\frac{5\sqrt{66}i}{15246}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{5\sqrt{2310}i}{15246}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	$-\frac{5\sqrt{385}i}{2541}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$\frac{25\sqrt{231}i}{7623}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$-\frac{25\sqrt{462}i}{15246}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$\frac{5\sqrt{154}i}{5082}$	0	0	0

continued ...

Table 9

No.	multipole	matrix																					
655	$\mathbb{G}_{6,-2}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		0	0	0	0	0	0	0	$-\frac{10\sqrt{33}i}{7623}$	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	$\frac{10\sqrt{462}i}{7623}$	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	$-\frac{10\sqrt{154}i}{2541}$	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	$\frac{10\sqrt{1155}i}{7623}$	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	$-\frac{10\sqrt{231}i}{7623}$	0	0	0	0	0	0	0	0	0	
656	$\mathbb{G}_{6,-3}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	$-\frac{5\sqrt{66}i}{2541}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	$\frac{5\sqrt{462}i}{2541}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$-\frac{5\sqrt{77}i}{847}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$\frac{5\sqrt{231}i}{2541}$	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 9

No.	multipole	matrix												
659	$\mathbb{G}_{6,-6}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	$-\frac{10\sqrt{3}i}{231}$	0	0	0	0	0	0
660	$\mathbb{G}_{2,2}^{(1,0;a)}$	0	0	0	$\frac{8\sqrt{2}i}{35}$	0	0	0	0	0	$-\frac{4\sqrt{6}i}{35}$	0	0	
		0	0	0	0	$\frac{32\sqrt{3}i}{105}$	0	0	0	0	0	$-\frac{4\sqrt{30}i}{35}$	0	
		0	0	0	0	0	$\frac{16\sqrt{15}i}{105}$	0	0	0	0	0	$-\frac{12\sqrt{10}i}{35}$	
		0	0	0	0	0	0	0	0	0	0	0	$-\frac{4\sqrt{210}i}{35}$	
		0	0	$-\frac{12\sqrt{10}i}{35}$	0	0	0	0	0	0	$-\frac{4\sqrt{30}i}{105}$	0	0	0
		0	0	0	$-\frac{36\sqrt{2}i}{35}$	0	0	0	0	0	$-\frac{16\sqrt{6}i}{105}$	0	0	0
		0	0	0	0	$-\frac{36\sqrt{2}i}{35}$	0	0	0	0	0	$-\frac{8\sqrt{5}i}{35}$	0	0
		0	0	0	0	0	$-\frac{12\sqrt{10}i}{35}$	0	0	0	0	0	$-\frac{16\sqrt{15}i}{105}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{4\sqrt{210}i}{105}$
		0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 9

No.	multipole	matrix														
661	$\mathbb{G}_{2,1}^{(1,0;a)}$	0	0	$-\frac{12\sqrt{2}i}{35}$	0	0	0	0	0	0	$\frac{8\sqrt{6}i}{35}$	0	0	0	0	
		0	0	0	$-\frac{4\sqrt{6}i}{21}$	0	0	0	0	0	0	$\frac{24\sqrt{2}i}{35}$	0	0	0	0
		0	0	0	0	$-\frac{8\sqrt{3}i}{105}$	0	0	0	0	0	0	$\frac{8\sqrt{30}i}{35}$	0	0	0
		0	0	0	0	0	$\frac{8\sqrt{5}i}{35}$	0	0	0	0	0	0	$\frac{8\sqrt{30}i}{35}$	0	0
		0	$\frac{24\sqrt{5}i}{35}$	0	0	0	0	0	0	$\frac{2\sqrt{2}i}{7}$	0	0	0	0	0	0
		0	0	$\frac{24\sqrt{2}i}{35}$	0	0	0	0	0	0	$\frac{22\sqrt{6}i}{105}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$\frac{4\sqrt{3}i}{15}$	0	0	0	0
		0	0	0	0	$-\frac{24\sqrt{2}i}{35}$	0	0	0	0	0	0	$\frac{4\sqrt{5}i}{35}$	0	0	0
		0	0	0	0	0	$-\frac{24\sqrt{5}i}{35}$	0	0	0	0	0	0	$-\frac{2\sqrt{30}i}{105}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{42}i}{21}$	0
662	$\mathbb{G}_{2,0}^{(1,0;a)}$	0	$\frac{8\sqrt{6}i}{35}$	0	0	0	0	0	0	$-\frac{8\sqrt{15}i}{35}$	0	0	0	0	0	
		0	0	$\frac{8i}{35}$	0	0	0	0	0	0	$-\frac{24\sqrt{3}i}{35}$	0	0	0	0	0
		0	0	0	$-\frac{8i}{35}$	0	0	0	0	0	0	$-\frac{24\sqrt{3}i}{35}$	0	0	0	0
		0	0	0	0	$-\frac{8\sqrt{6}i}{35}$	0	0	0	0	0	0	$-\frac{8\sqrt{15}i}{35}$	0	0	0
		$-\frac{4\sqrt{6}i}{7}$	0	0	0	0	0	0	$-\frac{4i}{7}$	0	0	0	0	0	0	0
		0	$\frac{4\sqrt{6}i}{35}$	0	0	0	0	0	0	$-\frac{4\sqrt{15}i}{35}$	0	0	0	0	0	0
		0	0	$\frac{16\sqrt{6}i}{35}$	0	0	0	0	0	0	$-\frac{4\sqrt{2}i}{35}$	0	0	0	0	0
		0	0	0	$\frac{16\sqrt{6}i}{35}$	0	0	0	0	0	0	$\frac{4\sqrt{2}i}{35}$	0	0	0	0
		0	0	0	0	$\frac{4\sqrt{6}i}{35}$	0	0	0	0	0	0	$\frac{4\sqrt{15}i}{35}$	0	0	0
		0	0	0	0	0	$-\frac{4\sqrt{6}i}{7}$	0	0	0	0	0	0	0	$\frac{4i}{7}$	0

continued ...

Table 9

No.	multipole	matrix													
663	$\mathbb{G}_{2,-1}^{(1,0;a)}$	$-\frac{8\sqrt{5}i}{35}$	0	0	0	0	0	0	$\frac{8\sqrt{30}i}{35}$	0	0	0	0	0	0
		0	$\frac{8\sqrt{3}i}{105}$	0	0	0	0	0	0	$\frac{8\sqrt{30}i}{35}$	0	0	0	0	0
		0	0	$\frac{4\sqrt{6}i}{21}$	0	0	0	0	0	0	$\frac{24\sqrt{2}i}{35}$	0	0	0	0
		0	0	0	$\frac{12\sqrt{2}i}{35}$	0	0	0	0	0	0	$\frac{8\sqrt{6}i}{35}$	0	0	0
		0	0	0	0	0	0	$\frac{2\sqrt{42}i}{21}$	0	0	0	0	0	0	0
		$-\frac{24\sqrt{5}i}{35}$	0	0	0	0	0	0	$\frac{2\sqrt{30}i}{105}$	0	0	0	0	0	0
		0	$-\frac{24\sqrt{2}i}{35}$	0	0	0	0	0	0	$-\frac{4\sqrt{5}i}{35}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$-\frac{4\sqrt{3}i}{15}$	0	0	0	0
		0	0	0	$\frac{24\sqrt{2}i}{35}$	0	0	0	0	0	0	$-\frac{22\sqrt{6}i}{105}$	0	0	0
		0	0	0	0	$\frac{24\sqrt{5}i}{35}$	0	0	0	0	0	0	$-\frac{2\sqrt{2}i}{7}$	0	0
664	$\mathbb{G}_{2,-2}^{(1,0;a)}$	0	0	0	0	0	0	$-\frac{4\sqrt{210}i}{35}$	0	0	0	0	0	0	
		$-\frac{16\sqrt{15}i}{105}$	0	0	0	0	0	0	$-\frac{12\sqrt{10}i}{35}$	0	0	0	0	0	
		0	$-\frac{32\sqrt{3}i}{105}$	0	0	0	0	0	0	$-\frac{4\sqrt{30}i}{35}$	0	0	0	0	
		0	0	$-\frac{8\sqrt{2}i}{35}$	0	0	0	0	0	0	$-\frac{4\sqrt{6}i}{35}$	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	$\frac{4\sqrt{210}i}{105}$	0	0	0	0	0	0	
		$-\frac{12\sqrt{10}i}{35}$	0	0	0	0	0	0	$\frac{16\sqrt{15}i}{105}$	0	0	0	0	0	
		0	$-\frac{36\sqrt{2}i}{35}$	0	0	0	0	0	0	$\frac{8\sqrt{5}i}{35}$	0	0	0	0	
		0	0	$-\frac{36\sqrt{2}i}{35}$	0	0	0	0	0	0	$\frac{16\sqrt{6}i}{105}$	0	0	0	
		0	0	0	$-\frac{12\sqrt{10}i}{35}$	0	0	0	0	0	0	$\frac{4\sqrt{30}i}{105}$	0	0	

continued ...

Table 9

No.	multipole	matrix													
665	$\mathbb{G}_{4,4}^{(1,0;a)}$	0	0	0	0	0	$-\frac{2\sqrt{70}i}{105}$	0	0	0	0	0	$\frac{12\sqrt{105}i}{175}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{12\sqrt{5}i}{25}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	$\frac{4\sqrt{70}i}{35}$	0	0	0	0	0	$\frac{4\sqrt{7}i}{105}$	0	0
		0	0	0	0	0	$\frac{4\sqrt{70}i}{35}$	0	0	0	0	0	0	$\frac{8\sqrt{105}i}{525}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{30}i}{75}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
666	$\mathbb{G}_{4,3}^{(1,0;a)}$	0	0	0	0	$\frac{\sqrt{7}i}{21}$	0	0	0	0	0	$-\frac{18\sqrt{70}i}{175}$	0	0	
		0	0	0	0	0	$-\frac{\sqrt{105}i}{105}$	0	0	0	0	0	$-\frac{12\sqrt{70}i}{175}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{6\sqrt{10}i}{25}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	$-\frac{4\sqrt{70}i}{35}$	0	0	0	0	0	$-\frac{\sqrt{210}i}{105}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{70}i}{75}$	0	0	0
		0	0	0	0	0	$\frac{4\sqrt{70}i}{35}$	0	0	0	0	0	$\frac{\sqrt{105}i}{525}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{15}i}{25}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 9

No.	multipole	matrix												
667	$\mathbb{G}_{4,2}^{(1,0;a)}$	0	0	0	$-\frac{2i}{21}$	0	0	0	0	0	$\frac{18\sqrt{3}i}{35}$	0	0	0
		0	0	0	0	$\frac{\sqrt{6}i}{21}$	0	0	0	0	0	$\frac{6\sqrt{15}i}{175}$	0	0
		0	0	0	0	0	$-\frac{\sqrt{30}i}{105}$	0	0	0	0	0	$-\frac{66\sqrt{5}i}{175}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{6\sqrt{105}i}{175}$
		0	0	$\frac{12\sqrt{5}i}{35}$	0	0	0	0	0	$\frac{4\sqrt{15}i}{105}$	0	0	0	0
		0	0	0	$-\frac{4i}{7}$	0	0	0	0	0	$\frac{2\sqrt{3}i}{105}$	0	0	0
		0	0	0	0	$-\frac{4i}{7}$	0	0	0	0	0	$-\frac{17\sqrt{10}i}{525}$	0	0
		0	0	0	0	0	$\frac{12\sqrt{5}i}{35}$	0	0	0	0	0	$-\frac{3\sqrt{30}i}{175}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{105}i}{175}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
668	$\mathbb{G}_{4,1}^{(1,0;a)}$	0	0	$\frac{\sqrt{2}i}{21}$	0	0	0	0	0	$-\frac{12\sqrt{6}i}{35}$	0	0	0	0
		0	0	0	$-\frac{\sqrt{6}i}{21}$	0	0	0	0	0	$\frac{6\sqrt{2}i}{35}$	0	0	0
		0	0	0	0	$\frac{\sqrt{3}i}{21}$	0	0	0	0	0	$\frac{24\sqrt{30}i}{175}$	0	0
		0	0	0	0	0	$-\frac{\sqrt{5}i}{105}$	0	0	0	0	0	$-\frac{18\sqrt{30}i}{175}$	0
		0	$-\frac{8\sqrt{5}i}{35}$	0	0	0	0	0	$-\frac{2\sqrt{2}i}{21}$	0	0	0	0	0
		0	0	$\frac{4\sqrt{2}i}{7}$	0	0	0	0	0	$\frac{2\sqrt{6}i}{105}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	$\frac{\sqrt{3}i}{15}$	0	0	0
		0	0	0	0	$-\frac{4\sqrt{2}i}{7}$	0	0	0	0	0	$\frac{\sqrt{5}i}{525}$	0	0
		0	0	0	0	0	$\frac{8\sqrt{5}i}{35}$	0	0	0	0	0	$-\frac{13\sqrt{30}i}{525}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{42}i}{105}$

continued ...

Table 9

No.	multipole	matrix														
669	$\mathbb{G}_{4,0}^{(1,0;a)}$	0	$-\frac{2\sqrt{5}i}{105}$	0	0	0	0	0	0	$\frac{18\sqrt{2}i}{35}$	0	0	0	0	0	
		0	0	$\frac{2\sqrt{30}i}{105}$	0	0	0	0	0	0	$-\frac{6\sqrt{10}i}{35}$	0	0	0	0	0
		0	0	0	$-\frac{2\sqrt{30}i}{105}$	0	0	0	0	0	0	$-\frac{6\sqrt{10}i}{35}$	0	0	0	0
		0	0	0	0	$\frac{2\sqrt{5}i}{105}$	0	0	0	0	0	0	$\frac{18\sqrt{2}i}{35}$	0	0	0
		$\frac{4\sqrt{5}i}{35}$	0	0	0	0	0	0	$\frac{2\sqrt{30}i}{105}$	0	0	0	0	0	0	0
		0	$-\frac{12\sqrt{5}i}{35}$	0	0	0	0	0	0	$-\frac{8\sqrt{2}i}{105}$	0	0	0	0	0	0
		0	0	$\frac{8\sqrt{5}i}{35}$	0	0	0	0	0	0	$-\frac{2\sqrt{15}i}{105}$	0	0	0	0	0
		0	0	0	$\frac{8\sqrt{5}i}{35}$	0	0	0	0	0	0	$\frac{2\sqrt{15}i}{105}$	0	0	0	0
		0	0	0	0	$-\frac{12\sqrt{5}i}{35}$	0	0	0	0	0	0	$\frac{8\sqrt{2}i}{105}$	0	0	0
		0	0	0	0	0	$\frac{4\sqrt{5}i}{35}$	0	0	0	0	0	0	0	$-\frac{2\sqrt{30}i}{105}$	0
670	$\mathbb{G}_{4,-1}^{(1,0;a)}$	$\frac{\sqrt{5}i}{105}$	0	0	0	0	0	0	$-\frac{18\sqrt{30}i}{175}$	0	0	0	0	0	0	
		0	$-\frac{\sqrt{3}i}{21}$	0	0	0	0	0	0	$\frac{24\sqrt{30}i}{175}$	0	0	0	0	0	
		0	0	$\frac{\sqrt{6}i}{21}$	0	0	0	0	0	0	$\frac{6\sqrt{2}i}{35}$	0	0	0	0	
		0	0	0	$-\frac{\sqrt{2}i}{21}$	0	0	0	0	0	0	$-\frac{12\sqrt{6}i}{35}$	0	0	0	
		0	0	0	0	0	0	$-\frac{\sqrt{42}i}{105}$	0	0	0	0	0	0	0	
		$\frac{8\sqrt{5}i}{35}$	0	0	0	0	0	0	$\frac{13\sqrt{30}i}{525}$	0	0	0	0	0	0	
		0	$-\frac{4\sqrt{2}i}{7}$	0	0	0	0	0	0	$-\frac{\sqrt{5}i}{525}$	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{3}i}{15}$	0	0	0	0	
		0	0	0	$\frac{4\sqrt{2}i}{7}$	0	0	0	0	0	0	$-\frac{2\sqrt{6}i}{105}$	0	0	0	
		0	0	0	0	$-\frac{8\sqrt{5}i}{35}$	0	0	0	0	0	0	$\frac{2\sqrt{2}i}{21}$	0	0	

continued ...

Table 9

No.	multipole	matrix														
671	$\mathbb{G}_{4,-2}^{(1,0;a)}$	0	0	0	0	0	0	$\frac{6\sqrt{105}i}{175}$	0	0	0	0	0	0	0	0
		$\frac{\sqrt{30}i}{105}$	0	0	0	0	0	0	$-\frac{66\sqrt{5}i}{175}$	0	0	0	0	0	0	0
		0	$-\frac{\sqrt{6}i}{21}$	0	0	0	0	0	0	$\frac{6\sqrt{15}i}{175}$	0	0	0	0	0	0
		0	0	$\frac{2i}{21}$	0	0	0	0	0	0	$\frac{18\sqrt{3}i}{35}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{2\sqrt{105}i}{175}$	0	0	0	0	0	0	0	0
		$\frac{12\sqrt{5}i}{35}$	0	0	0	0	0	0	$\frac{3\sqrt{30}i}{175}$	0	0	0	0	0	0	0
		0	$-\frac{4i}{7}$	0	0	0	0	0	0	$\frac{17\sqrt{10}i}{525}$	0	0	0	0	0	0
		0	0	$-\frac{4i}{7}$	0	0	0	0	0	0	$-\frac{2\sqrt{3}i}{105}$	0	0	0	0	0
		0	0	0	$\frac{12\sqrt{5}i}{35}$	0	0	0	0	0	0	0	$-\frac{4\sqrt{15}i}{105}$	0	0	0
672	$\mathbb{G}_{4,-3}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	$\frac{6\sqrt{10}i}{25}$	0	0	0	0	0	0	0	
		$\frac{\sqrt{105}i}{105}$	0	0	0	0	0	0	$-\frac{12\sqrt{70}i}{175}$	0	0	0	0	0	0	
		0	$-\frac{\sqrt{7}i}{21}$	0	0	0	0	0	0	$-\frac{18\sqrt{70}i}{175}$	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	$-\frac{\sqrt{15}i}{25}$	0	0	0	0	0	0	0	
		$\frac{4\sqrt{70}i}{35}$	0	0	0	0	0	0	$-\frac{\sqrt{105}i}{525}$	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	$\frac{\sqrt{70}i}{75}$	0	0	0	0	0	
		0	0	$-\frac{4\sqrt{70}i}{35}$	0	0	0	0	0	0	0	$\frac{\sqrt{210}i}{105}$	0	0	0	

continued ...

Table 9

No.	multipole	matrix													
673	$\mathbb{G}_{4,-4}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{12\sqrt{5}i}{25}$	0	0	0	0	0	0	0
		$\frac{2\sqrt{70}i}{105}$	0	0	0	0	0	0	$\frac{12\sqrt{105}i}{175}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{2\sqrt{30}i}{75}$	0	0	0	0	0	0	0
		$\frac{4\sqrt{70}i}{35}$	0	0	0	0	0	0	$-\frac{8\sqrt{105}i}{525}$	0	0	0	0	0	0
		0	$\frac{4\sqrt{70}i}{35}$	0	0	0	0	0	0	$-\frac{4\sqrt{7}i}{105}$	0	0	0	0	0
674	$\mathbb{G}_{0,0}^{(1,1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		$-\frac{\sqrt{3}i}{3}$	0	0	0	0	0	0	0	0	0	0	0	0	
		0	$-\frac{\sqrt{3}i}{3}$	0	0	0	0	0	0	0	0	0	0	0	
		0	0	$-\frac{\sqrt{3}i}{3}$	0	0	0	0	0	0	0	0	0	0	
		0	0	0	$-\frac{\sqrt{3}i}{3}$	0	0	0	0	0	0	0	0	0	
		0	0	0	0	$-\frac{\sqrt{3}i}{3}$	0	0	0	0	0	0	0	0	
		0	0	0	0	0	$-\frac{\sqrt{3}i}{3}$	0	0	0	0	0	0	0	

continued ...

Table 9

No.	multipole	matrix													
675	$\mathbb{G}_{2,2}^{(1,1;a)}$	0	0	0	$\frac{24\sqrt{7}i}{1225}$	0	0	0	0	0	$-\frac{3\sqrt{21}i}{2450}$	0	0	0	
		0	0	0	0	$\frac{16\sqrt{42}i}{1225}$	0	0	0	0	0	$-\frac{3\sqrt{105}i}{2450}$	0	0	
		0	0	0	0	0	$\frac{8\sqrt{210}i}{1225}$	0	0	0	0	0	$-\frac{9\sqrt{35}i}{2450}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{3\sqrt{15}i}{350}$	
		0	0	$\frac{9\sqrt{35}i}{1225}$	0	0	0	0	0	$-\frac{4\sqrt{105}i}{3675}$	0	0	0	0	
		0	0	0	$\frac{27\sqrt{7}i}{1225}$	0	0	0	0	0	$-\frac{16\sqrt{21}i}{3675}$	0	0	0	0
		0	0	0	0	$\frac{27\sqrt{7}i}{1225}$	0	0	0	0	0	$-\frac{4\sqrt{70}i}{1225}$	0	0	0
		0	0	0	0	0	$\frac{9\sqrt{35}i}{1225}$	0	0	0	0	0	$-\frac{8\sqrt{210}i}{3675}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{4\sqrt{15}i}{525}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
676	$\mathbb{G}_{2,1}^{(1,1;a)}$	0	0	$-\frac{36\sqrt{7}i}{1225}$	0	0	0	0	0	$\frac{3\sqrt{21}i}{1225}$	0	0	0	0	
		0	0	0	$-\frac{4\sqrt{21}i}{245}$	0	0	0	0	0	$\frac{9\sqrt{7}i}{1225}$	0	0	0	
		0	0	0	0	$-\frac{4\sqrt{42}i}{1225}$	0	0	0	0	0	$\frac{3\sqrt{105}i}{1225}$	0	0	
		0	0	0	0	0	$\frac{12\sqrt{70}i}{1225}$	0	0	0	0	0	$\frac{3\sqrt{105}i}{1225}$	0	
		0	$-\frac{9\sqrt{70}i}{1225}$	0	0	0	0	0	$\frac{2\sqrt{7}i}{245}$	0	0	0	0	0	
		0	0	$-\frac{18\sqrt{7}i}{1225}$	0	0	0	0	0	$\frac{22\sqrt{21}i}{3675}$	0	0	0	0	
		0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{42}i}{525}$	0	0	0	
		0	0	0	0	$\frac{18\sqrt{7}i}{1225}$	0	0	0	0	0	$\frac{2\sqrt{70}i}{1225}$	0	0	
		0	0	0	0	0	$\frac{9\sqrt{70}i}{1225}$	0	0	0	0	0	$-\frac{2\sqrt{105}i}{3675}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{3}i}{105}$	

continued ...

Table 9

No.	multipole	matrix															
677	$\mathbb{G}_{2,0}^{(1,1;a)}$	0	$\frac{24\sqrt{21}i}{1225}$	0	0	0	0	0	0	$-\frac{3\sqrt{210}i}{2450}$	0	0	0	0	0		
		0	0	$\frac{12\sqrt{14}i}{1225}$	0	0	0	0	0	0	$-\frac{9\sqrt{42}i}{2450}$	0	0	0	0	0	
		0	0	0	$-\frac{12\sqrt{14}i}{1225}$	0	0	0	0	0	0	$-\frac{9\sqrt{42}i}{2450}$	0	0	0	0	
		0	0	0	0	$-\frac{24\sqrt{21}i}{1225}$	0	0	0	0	0	0	$-\frac{3\sqrt{210}i}{2450}$	0	0	0	
		$\frac{3\sqrt{21}i}{245}$	0	0	0	0	0	0	$-\frac{2\sqrt{14}i}{245}$	0	0	0	0	0	0	0	
		0	$-\frac{3\sqrt{21}i}{1225}$	0	0	0	0	0	0	0	$-\frac{2\sqrt{210}i}{1225}$	0	0	0	0	0	0
		0	0	$-\frac{12\sqrt{21}i}{1225}$	0	0	0	0	0	0	$-\frac{4\sqrt{7}i}{1225}$	0	0	0	0	0	0
		0	0	0	$-\frac{12\sqrt{21}i}{1225}$	0	0	0	0	0	0	$\frac{4\sqrt{7}i}{1225}$	0	0	0	0	0
		0	0	0	0	$-\frac{3\sqrt{21}i}{1225}$	0	0	0	0	0	0	$\frac{2\sqrt{210}i}{1225}$	0	0	0	0
		0	0	0	0	0	$\frac{3\sqrt{21}i}{245}$	0	0	0	0	0	0	0	$\frac{2\sqrt{14}i}{245}$	0	0
678	$\mathbb{G}_{2,-1}^{(1,1;a)}$	$-\frac{12\sqrt{70}i}{1225}$	0	0	0	0	0	0	$\frac{3\sqrt{105}i}{1225}$	0	0	0	0	0	0	0	
		0	$\frac{4\sqrt{42}i}{1225}$	0	0	0	0	0	0	$\frac{3\sqrt{105}i}{1225}$	0	0	0	0	0	0	
		0	0	$\frac{4\sqrt{21}i}{245}$	0	0	0	0	0	0	$\frac{9\sqrt{7}i}{1225}$	0	0	0	0	0	
		0	0	0	$\frac{36\sqrt{7}i}{1225}$	0	0	0	0	0	0	$\frac{3\sqrt{21}i}{1225}$	0	0	0	0	
		0	0	0	0	0	0	$\frac{2\sqrt{3}i}{105}$	0	0	0	0	0	0	0	0	
		$\frac{9\sqrt{70}i}{1225}$	0	0	0	0	0	0	$\frac{2\sqrt{105}i}{3675}$	0	0	0	0	0	0	0	0
		0	$\frac{18\sqrt{7}i}{1225}$	0	0	0	0	0	0	0	$-\frac{2\sqrt{70}i}{1225}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{42}i}{525}$	0	0	0	0	0	0
		0	0	0	$-\frac{18\sqrt{7}i}{1225}$	0	0	0	0	0	0	$-\frac{22\sqrt{21}i}{3675}$	0	0	0	0	0
		0	0	0	0	$-\frac{9\sqrt{70}i}{1225}$	0	0	0	0	0	0	$-\frac{2\sqrt{7}i}{245}$	0	0	0	0

continued ...

Table 9

No.	multipole	matrix															
679	$\mathbb{G}_{2,-2}^{(1,1;a)}$	0	0	0	0	0	0	$-\frac{3\sqrt{15}i}{350}$	0	0	0	0	0	0	0	0	0
		$-\frac{8\sqrt{210}i}{1225}$	0	0	0	0	0	0	$-\frac{9\sqrt{35}i}{2450}$	0	0	0	0	0	0	0	0
		0	$-\frac{16\sqrt{42}i}{1225}$	0	0	0	0	0	0	$-\frac{3\sqrt{105}i}{2450}$	0	0	0	0	0	0	0
		0	0	$-\frac{24\sqrt{7}i}{1225}$	0	0	0	0	0	0	$-\frac{3\sqrt{21}i}{2450}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{4\sqrt{15}i}{525}$	0	0	0	0	0	0	0	0	0
		$\frac{9\sqrt{35}i}{1225}$	0	0	0	0	0	0	$\frac{8\sqrt{210}i}{3675}$	0	0	0	0	0	0	0	0
		0	$\frac{27\sqrt{7}i}{1225}$	0	0	0	0	0	0	$\frac{4\sqrt{70}i}{1225}$	0	0	0	0	0	0	0
		0	0	$\frac{27\sqrt{7}i}{1225}$	0	0	0	0	0	0	$\frac{16\sqrt{21}i}{3675}$	0	0	0	0	0	0
		0	0	0	$\frac{9\sqrt{35}i}{1225}$	0	0	0	0	0	0	0	$\frac{4\sqrt{105}i}{3675}$	0	0	0	0
680	$\mathbb{G}_{4,4}^{(1,1;a)}$	0	0	0	0	0	$-\frac{4\sqrt{770}i}{1617}$	0	0	0	0	0	$\frac{2\sqrt{1155}i}{8085}$	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{55}i}{1155}$	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	$-\frac{\sqrt{770}i}{1617}$	0	0	0	0	0	$\frac{8\sqrt{77}i}{17787}$	0	0	0	0	
		0	0	0	0	0	$-\frac{\sqrt{770}i}{1617}$	0	0	0	0	0	$\frac{16\sqrt{1155}i}{88935}$	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{4\sqrt{330}i}{12705}$	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

continued ...

Table 9

No.	multipole	matrix												
681	$\mathbb{G}_{4,3}^{(1,1;a)}$	0	0	0	0	$\frac{10\sqrt{77i}}{1617}$	0	0	0	0	0	$-\frac{\sqrt{770i}}{2695}$	0	0
		0	0	0	0	0	$-\frac{2\sqrt{1155i}}{1617}$	0	0	0	0	0	$-\frac{2\sqrt{770i}}{8085}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{110i}}{1155}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$\frac{\sqrt{770i}}{1617}$	0	0	0	0	0	$-\frac{2\sqrt{2310i}}{17787}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{770i}}{12705}$	0	0
		0	0	0	0	0	$-\frac{\sqrt{770i}}{1617}$	0	0	0	0	0	$\frac{2\sqrt{1155i}}{88935}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{165i}}{4235}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
682	$\mathbb{G}_{4,2}^{(1,1;a)}$	0	0	0	$-\frac{20\sqrt{11i}}{1617}$	0	0	0	0	0	$\frac{\sqrt{33i}}{539}$	0	0	0
		0	0	0	0	$\frac{10\sqrt{66i}}{1617}$	0	0	0	0	0	$\frac{\sqrt{165i}}{8085}$	0	0
		0	0	0	0	0	$-\frac{2\sqrt{330i}}{1617}$	0	0	0	0	0	$-\frac{\sqrt{55i}}{735}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{1155i}}{8085}$
		0	0	$-\frac{\sqrt{55i}}{539}$	0	0	0	0	0	$\frac{8\sqrt{165i}}{17787}$	0	0	0	0
		0	0	0	$\frac{5\sqrt{11i}}{1617}$	0	0	0	0	0	$\frac{4\sqrt{33i}}{17787}$	0	0	0
		0	0	0	0	$\frac{5\sqrt{11i}}{1617}$	0	0	0	0	0	$-\frac{34\sqrt{110i}}{88935}$	0	0
		0	0	0	0	0	$-\frac{\sqrt{55i}}{539}$	0	0	0	0	0	$-\frac{6\sqrt{330i}}{29645}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{4\sqrt{1155i}}{29645}$
		0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 9

No.	multipole	matrix													
683	$\mathbb{G}_{4,1}^{(1,1;a)}$	0	0	$\frac{10\sqrt{22}i}{1617}$	0	0	0	0	0	$-\frac{2\sqrt{66}i}{1617}$	0	0	0	0	
		0	0	0	$-\frac{10\sqrt{66}i}{1617}$	0	0	0	0	0	$\frac{\sqrt{22}i}{1617}$	0	0	0	
		0	0	0	0	$\frac{10\sqrt{33}i}{1617}$	0	0	0	0	0	$\frac{4\sqrt{330}i}{8085}$	0	0	
		0	0	0	0	0	$-\frac{2\sqrt{55}i}{1617}$	0	0	0	0	0	$-\frac{\sqrt{330}i}{2695}$	0	
		0	$\frac{2\sqrt{55}i}{1617}$	0	0	0	0	0	0	$-\frac{20\sqrt{22}i}{17787}$	0	0	0	0	
		0	0	$-\frac{5\sqrt{22}i}{1617}$	0	0	0	0	0	0	$\frac{4\sqrt{66}i}{17787}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{33}i}{2541}$	0	0	0
		0	0	0	0	$\frac{5\sqrt{22}i}{1617}$	0	0	0	0	0	0	$\frac{2\sqrt{55}i}{88935}$	0	0
		0	0	0	0	0	$-\frac{2\sqrt{55}i}{1617}$	0	0	0	0	0	$-\frac{26\sqrt{330}i}{88935}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{462}i}{17787}$	0
684	$\mathbb{G}_{4,0}^{(1,1;a)}$	0	$-\frac{4\sqrt{55}i}{1617}$	0	0	0	0	0	0	$\frac{\sqrt{22}i}{539}$	0	0	0	0	
		0	0	$\frac{4\sqrt{330}i}{1617}$	0	0	0	0	0	0	$-\frac{\sqrt{110}i}{1617}$	0	0	0	
		0	0	0	$-\frac{4\sqrt{330}i}{1617}$	0	0	0	0	0	0	$-\frac{\sqrt{110}i}{1617}$	0	0	
		0	0	0	0	$\frac{4\sqrt{55}i}{1617}$	0	0	0	0	0	0	$\frac{\sqrt{22}i}{539}$	0	
		$-\frac{\sqrt{55}i}{1617}$	0	0	0	0	0	0	$\frac{4\sqrt{330}i}{17787}$	0	0	0	0	0	
		0	$\frac{\sqrt{55}i}{539}$	0	0	0	0	0	0	$-\frac{16\sqrt{22}i}{17787}$	0	0	0	0	
		0	0	$-\frac{2\sqrt{55}i}{1617}$	0	0	0	0	0	0	$-\frac{4\sqrt{165}i}{17787}$	0	0	0	
		0	0	0	$-\frac{2\sqrt{55}i}{1617}$	0	0	0	0	0	0	$\frac{4\sqrt{165}i}{17787}$	0	0	
		0	0	0	0	$\frac{\sqrt{55}i}{539}$	0	0	0	0	0	0	$\frac{16\sqrt{22}i}{17787}$	0	
		0	0	0	0	0	$-\frac{\sqrt{55}i}{1617}$	0	0	0	0	0	0	$-\frac{4\sqrt{330}i}{17787}$	0

continued ...

Table 9

No.	multipole	matrix													
685	$\mathbb{G}_{4,-1}^{(1,1;a)}$	$\frac{2\sqrt{55}i}{1617}$	0	0	0	0	0	0	$-\frac{\sqrt{330}i}{2695}$	0	0	0	0	0	0
		0	$-\frac{10\sqrt{33}i}{1617}$	0	0	0	0	0	0	$\frac{4\sqrt{330}i}{8085}$	0	0	0	0	0
		0	0	$\frac{10\sqrt{66}i}{1617}$	0	0	0	0	0	0	0	$\frac{\sqrt{22}i}{1617}$	0	0	0
		0	0	0	$-\frac{10\sqrt{22}i}{1617}$	0	0	0	0	0	0	0	$-\frac{2\sqrt{66}i}{1617}$	0	0
		0	0	0	0	0	0	$-\frac{2\sqrt{462}i}{17787}$	0	0	0	0	0	0	0
		$-\frac{2\sqrt{55}i}{1617}$	0	0	0	0	0	0	$\frac{26\sqrt{330}i}{88935}$	0	0	0	0	0	0
		0	$\frac{5\sqrt{22}i}{1617}$	0	0	0	0	0	0	$-\frac{2\sqrt{55}i}{88935}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{33}i}{2541}$	0	0	0	0
		0	0	0	$-\frac{5\sqrt{22}i}{1617}$	0	0	0	0	0	0	0	$-\frac{4\sqrt{66}i}{17787}$	0	0
		0	0	0	0	$\frac{2\sqrt{55}i}{1617}$	0	0	0	0	0	0	0	$\frac{20\sqrt{22}i}{17787}$	0
686	$\mathbb{G}_{4,-2}^{(1,1;a)}$	0	0	0	0	0	0	$\frac{\sqrt{1155}i}{8085}$	0	0	0	0	0	0	
		$\frac{2\sqrt{330}i}{1617}$	0	0	0	0	0	0	$-\frac{\sqrt{55}i}{735}$	0	0	0	0	0	
		0	$-\frac{10\sqrt{66}i}{1617}$	0	0	0	0	0	0	$\frac{\sqrt{165}i}{8085}$	0	0	0	0	
		0	0	$\frac{20\sqrt{11}i}{1617}$	0	0	0	0	0	0	$\frac{\sqrt{33}i}{539}$	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	$-\frac{4\sqrt{1155}i}{29645}$	0	0	0	0	0	0	
		$-\frac{\sqrt{55}i}{539}$	0	0	0	0	0	0	$\frac{6\sqrt{330}i}{29645}$	0	0	0	0	0	
		0	$\frac{5\sqrt{11}i}{1617}$	0	0	0	0	0	0	$\frac{34\sqrt{110}i}{88935}$	0	0	0	0	
		0	0	$\frac{5\sqrt{11}i}{1617}$	0	0	0	0	0	0	$-\frac{4\sqrt{33}i}{17787}$	0	0	0	
		0	0	0	$-\frac{\sqrt{55}i}{539}$	0	0	0	0	0	0	$-\frac{8\sqrt{165}i}{17787}$	0	0	

continued ...

Table 9

No.	multipole	matrix												
689	$\mathbb{T}_{1,1}^{(a)}$	0	0	$-\frac{i}{5}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	$-\frac{\sqrt{3}i}{5}$	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{\sqrt{6}i}{5}$	0	0	0	0	0	0	0	0
		0	0	0	0	0	$-\frac{\sqrt{10}i}{5}$	0	0	0	0	0	0	0
		0	$\frac{\sqrt{10}i}{35}$	0	0	0	0	0	0	$-\frac{i}{7}$	0	0	0	0
		0	0	$\frac{4i}{35}$	0	0	0	0	0	0	$-\frac{\sqrt{3}i}{7}$	0	0	0
		0	0	0	$\frac{3\sqrt{2}i}{35}$	0	0	0	0	0	0	$-\frac{\sqrt{6}i}{7}$	0	0
		0	0	0	0	$\frac{4i}{35}$	0	0	0	0	0	0	$-\frac{\sqrt{10}i}{7}$	0
		0	0	0	0	0	$\frac{\sqrt{10}i}{35}$	0	0	0	0	0	0	$-\frac{\sqrt{15}i}{7}$
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{21}i}{7}$
690	$\mathbb{T}_{1,0}^{(a)}$	0	$\frac{2i}{5}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	$\frac{\sqrt{6}i}{5}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	$\frac{\sqrt{6}i}{5}$	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{2i}{5}$	0	0	0	0	0	0	0	0
		$-\frac{i}{7}$	0	0	0	0	0	0	$\frac{\sqrt{6}i}{7}$	0	0	0	0	0
		0	$-\frac{3i}{35}$	0	0	0	0	0	0	$\frac{\sqrt{10}i}{7}$	0	0	0	0
		0	0	$-\frac{i}{35}$	0	0	0	0	0	0	$\frac{2\sqrt{3}i}{7}$	0	0	0
		0	0	0	$\frac{i}{35}$	0	0	0	0	0	0	$\frac{2\sqrt{3}i}{7}$	0	0
		0	0	0	0	$\frac{3i}{35}$	0	0	0	0	0	0	$\frac{\sqrt{10}i}{7}$	0
		0	0	0	0	0	$\frac{i}{7}$	0	0	0	0	0	0	$\frac{\sqrt{6}i}{7}$

continued ...

Table 9

No.	multipole	matrix													
691	$\mathbb{T}_{1,-1}^{(a)}$	$-\frac{\sqrt{10}i}{5}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	$-\frac{\sqrt{6}i}{5}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$-\frac{\sqrt{3}i}{5}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$-\frac{i}{5}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{\sqrt{21}i}{7}$	0	0	0	0	0	0	0
		$-\frac{\sqrt{10}i}{35}$	0	0	0	0	0	0	$-\frac{\sqrt{15}i}{7}$	0	0	0	0	0	0
		0	$-\frac{4i}{35}$	0	0	0	0	0	0	$-\frac{\sqrt{10}i}{7}$	0	0	0	0	0
		0	0	$-\frac{3\sqrt{2}i}{35}$	0	0	0	0	0	0	$-\frac{\sqrt{6}i}{7}$	0	0	0	0
		0	0	0	$-\frac{4i}{35}$	0	0	0	0	0	0	$-\frac{\sqrt{3}i}{7}$	0	0	0
		0	0	0	0	$-\frac{\sqrt{10}i}{35}$	0	0	0	0	0	0	0	$-\frac{i}{7}$	0
692	$\mathbb{T}_{3,3}^{(a)}$	0	0	0	0	$\frac{9\sqrt{5}i}{350}$	0	0	0	0	0	$\frac{\sqrt{2}i}{70}$	0	0	
		0	0	0	0	0	$\frac{3\sqrt{3}i}{70}$	0	0	0	0	0	$\frac{\sqrt{2}i}{35}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{14}i}{70}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	$-\frac{\sqrt{2}i}{35}$	0	0	0	0	0	$\frac{\sqrt{6}i}{70}$	0	0	0	
		0	0	0	0	$-\frac{4\sqrt{5}i}{175}$	0	0	0	0	0	$\frac{3\sqrt{2}i}{70}$	0	0	
		0	0	0	0	0	$-\frac{\sqrt{2}i}{35}$	0	0	0	0	0	$\frac{3\sqrt{3}i}{70}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{21}i}{70}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	

continued ...

Table 9

No.	multipole	matrix												
693	$\mathbb{T}_{3,2}^{(a)}$	0	0	0	$-\frac{3\sqrt{15}i}{175}$	0	0	0	0	0	$-\frac{\sqrt{5}i}{70}$	0	0	0
		0	0	0	0	$-\frac{3\sqrt{10}i}{350}$	0	0	0	0	0	$-\frac{3i}{70}$	0	0
		0	0	0	0	0	$\frac{3\sqrt{2}i}{70}$	0	0	0	0	0	$-\frac{\sqrt{3}i}{70}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{7}i}{70}$
		0	0	$\frac{\sqrt{3}i}{35}$	0	0	0	0	0	$-\frac{2i}{35}$	0	0	0	0
		0	0	0	$\frac{\sqrt{15}i}{175}$	0	0	0	0	0	$-\frac{\sqrt{5}i}{35}$	0	0	0
		0	0	0	0	$-\frac{\sqrt{15}i}{175}$	0	0	0	0	0	$-\frac{\sqrt{6}i}{70}$	0	0
		0	0	0	0	0	$-\frac{\sqrt{3}i}{35}$	0	0	0	0	0	$\frac{\sqrt{2}i}{70}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{7}i}{35}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
694	$\mathbb{T}_{3,1}^{(a)}$	0	0	$\frac{9\sqrt{6}i}{350}$	0	0	0	0	0	$\frac{\sqrt{2}i}{35}$	0	0	0	0
		0	0	0	$-\frac{3\sqrt{2}i}{350}$	0	0	0	0	0	$\frac{\sqrt{6}i}{70}$	0	0	0
		0	0	0	0	$-\frac{3i}{50}$	0	0	0	0	0	0	0	0
		0	0	0	0	0	$\frac{3\sqrt{15}i}{350}$	0	0	0	0	0	$-\frac{\sqrt{10}i}{70}$	0
		0	$-\frac{2\sqrt{15}i}{175}$	0	0	0	0	0	0	$\frac{\sqrt{6}i}{35}$	0	0	0	0
		0	0	$\frac{\sqrt{6}i}{175}$	0	0	0	0	0	$\frac{\sqrt{2}i}{35}$	0	0	0	0
		0	0	0	$\frac{4\sqrt{3}i}{175}$	0	0	0	0	0	$-\frac{i}{70}$	0	0	0
		0	0	0	0	$\frac{\sqrt{6}i}{175}$	0	0	0	0	0	$-\frac{\sqrt{15}i}{70}$	0	0
		0	0	0	0	0	$-\frac{2\sqrt{15}i}{175}$	0	0	0	0	0	$-\frac{\sqrt{10}i}{70}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{14}i}{70}$

continued ...

Table 9

No.	multipole	matrix														
695	$\mathbb{T}_{3,0}^{(a)}$	0	$-\frac{9i}{175}$	0	0	0	0	0	0	$-\frac{\sqrt{10i}}{70}$	0	0	0	0	0	
		0	0	$\frac{3\sqrt{6i}}{175}$	0	0	0	0	0	0	$-\frac{\sqrt{2i}}{70}$	0	0	0	0	0
		0	0	0	$\frac{3\sqrt{6i}}{175}$	0	0	0	0	0	0	$\frac{\sqrt{2i}}{70}$	0	0	0	0
		0	0	0	0	$-\frac{9i}{175}$	0	0	0	0	0	0	0	$\frac{\sqrt{10i}}{70}$	0	0
		$\frac{i}{35}$	0	0	0	0	0	0	$-\frac{\sqrt{6i}}{35}$	0	0	0	0	0	0	0
		0	$-\frac{i}{25}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$-\frac{4i}{175}$	0	0	0	0	0	0	$\frac{\sqrt{3i}}{35}$	0	0	0	0	0
		0	0	0	$\frac{4i}{175}$	0	0	0	0	0	0	$\frac{\sqrt{3i}}{35}$	0	0	0	0
		0	0	0	0	$\frac{i}{25}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$-\frac{i}{35}$	0	0	0	0	0	0	0	$-\frac{\sqrt{6i}}{35}$	0
696	$\mathbb{T}_{3,-1}^{(a)}$	$\frac{3\sqrt{15i}}{350}$	0	0	0	0	0	0	$\frac{\sqrt{10i}}{70}$	0	0	0	0	0	0	
		0	$-\frac{3i}{50}$	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	$-\frac{3\sqrt{2i}}{350}$	0	0	0	0	0	0	$-\frac{\sqrt{6i}}{70}$	0	0	0	0	
		0	0	0	$\frac{9\sqrt{6i}}{350}$	0	0	0	0	0	0	$-\frac{\sqrt{2i}}{35}$	0	0	0	
		0	0	0	0	0	0	$\frac{\sqrt{14i}}{70}$	0	0	0	0	0	0	0	
		$\frac{2\sqrt{15i}}{175}$	0	0	0	0	0	0	$-\frac{\sqrt{10i}}{70}$	0	0	0	0	0	0	
		0	$-\frac{\sqrt{6i}}{175}$	0	0	0	0	0	0	$-\frac{\sqrt{15i}}{70}$	0	0	0	0	0	
		0	0	$-\frac{4\sqrt{3i}}{175}$	0	0	0	0	0	0	$-\frac{i}{70}$	0	0	0	0	
		0	0	0	$-\frac{\sqrt{6i}}{175}$	0	0	0	0	0	0	$\frac{\sqrt{2i}}{35}$	0	0	0	
		0	0	0	0	$\frac{2\sqrt{15i}}{175}$	0	0	0	0	0	0	0	$\frac{\sqrt{6i}}{35}$	0	

continued ...

Table 9

No.	multipole	matrix													
697	$\mathbb{T}_{3,-2}^{(a)}$	0	0	0	0	0	0	$-\frac{\sqrt{7}i}{70}$	0	0	0	0	0	0	0
		$\frac{3\sqrt{2}i}{70}$	0	0	0	0	0	0	$\frac{\sqrt{3}i}{70}$	0	0	0	0	0	0
		0	$-\frac{3\sqrt{10}i}{350}$	0	0	0	0	0	0	$\frac{3i}{70}$	0	0	0	0	0
		0	0	$-\frac{3\sqrt{15}i}{175}$	0	0	0	0	0	0	$\frac{\sqrt{5}i}{70}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{\sqrt{7}i}{35}$	0	0	0	0	0	0	0
		$\frac{\sqrt{3}i}{35}$	0	0	0	0	0	0	$\frac{\sqrt{2}i}{70}$	0	0	0	0	0	0
		0	$\frac{\sqrt{15}i}{175}$	0	0	0	0	0	0	$-\frac{\sqrt{6}i}{70}$	0	0	0	0	0
		0	0	$-\frac{\sqrt{15}i}{175}$	0	0	0	0	0	0	$-\frac{\sqrt{5}i}{35}$	0	0	0	0
		0	0	0	$-\frac{\sqrt{3}i}{35}$	0	0	0	0	0	0	$-\frac{2i}{35}$	0	0	0
698	$\mathbb{T}_{3,-3}^{(a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	$-\frac{\sqrt{14}i}{70}$	0	0	0	0	0	0	
		$\frac{3\sqrt{3}i}{70}$	0	0	0	0	0	0	$-\frac{\sqrt{2}i}{35}$	0	0	0	0	0	
		0	$\frac{9\sqrt{5}i}{350}$	0	0	0	0	0	0	$-\frac{\sqrt{2}i}{70}$	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	$\frac{\sqrt{21}i}{70}$	0	0	0	0	0	0	
		$\frac{\sqrt{2}i}{35}$	0	0	0	0	0	0	$\frac{3\sqrt{3}i}{70}$	0	0	0	0	0	
		0	$\frac{4\sqrt{5}i}{175}$	0	0	0	0	0	0	$\frac{3\sqrt{2}i}{70}$	0	0	0	0	
		0	0	$\frac{\sqrt{2}i}{35}$	0	0	0	0	0	0	$\frac{\sqrt{6}i}{70}$	0	0	0	

continued ...

Table 9

No.	multipole	matrix
699	$\mathbb{T}_{5,5}^{(a)}$	0 0 0 0 0 0 0 0 0 0 0 0 0 $-\frac{2\sqrt{30i}}{231}$
		0 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 $\frac{10\sqrt{7i}}{539}$ 0 0 0 0 0 0 0 $-\frac{5\sqrt{42i}}{1617}$ 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 $-\frac{\sqrt{30i}}{231}$
		0 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 0
700	$\mathbb{T}_{5,4}^{(a)}$	0 0 0 0 0 0 0 0 0 0 0 0 $\frac{2\sqrt{21i}}{231}$ 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 $-\frac{2i}{77}$
		0 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 0 $-\frac{5\sqrt{14i}}{539}$ 0 0 0 0 0 0 $\frac{2\sqrt{35i}}{539}$ 0 0
		0 0 0 0 0 $\frac{5\sqrt{14i}}{539}$ 0 0 0 0 0 0 $\frac{2\sqrt{21i}}{1617}$ 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 $-\frac{2\sqrt{6i}}{231}$
		0 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 0

continued ...

Table 9

No.	multipole	matrix												
701	$\mathbb{T}_{5,3}^{(a)}$	0	0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{14}i}{231}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{14}i}{231}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{2}i}{231}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$\frac{10\sqrt{14}i}{1617}$	0	0	0	0	0	$-\frac{5\sqrt{42}i}{1617}$	0	0	0
		0	0	0	0	$-\frac{10\sqrt{35}i}{1617}$	0	0	0	0	0	$\frac{\sqrt{14}i}{539}$	0	0
		0	0	0	0	0	$\frac{10\sqrt{14}i}{1617}$	0	0	0	0	0	$\frac{2\sqrt{21}i}{539}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{3}i}{231}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
702	$\mathbb{T}_{5,2}^{(a)}$	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{35}i}{231}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{7}i}{77}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{21}i}{231}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{i}{231}$
		0	0	$-\frac{5\sqrt{21}i}{1617}$	0	0	0	0	0	$\frac{10\sqrt{7}i}{1617}$	0	0	0	0
		0	0	0	$\frac{5\sqrt{105}i}{1617}$	0	0	0	0	0	$-\frac{4\sqrt{35}i}{1617}$	0	0	0
		0	0	0	0	$-\frac{5\sqrt{105}i}{1617}$	0	0	0	0	0	$-\frac{2\sqrt{42}i}{1617}$	0	0
		0	0	0	0	0	$\frac{5\sqrt{21}i}{1617}$	0	0	0	0	0	$\frac{8\sqrt{14}i}{1617}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{2i}{231}$
		0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 9

No.	multipole	matrix														
703	$\mathbb{T}_{5,1}^{(a)}$	0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{5}i}{231}$	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{15}i}{231}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	$-\frac{2i}{77}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{2i}{231}$	0	0
		0	$\frac{5\sqrt{6}i}{1617}$	0	0	0	0	0	0	$-\frac{5\sqrt{15}i}{1617}$	0	0	0	0	0	0
		0	0	$-\frac{10\sqrt{15}i}{1617}$	0	0	0	0	0	0	$\frac{13\sqrt{5}i}{1617}$	0	0	0	0	0
		0	0	0	$\frac{10\sqrt{30}i}{1617}$	0	0	0	0	0	0	$-\frac{\sqrt{10}i}{1617}$	0	0	0	0
		0	0	0	0	$-\frac{10\sqrt{15}i}{1617}$	0	0	0	0	0	0	$-\frac{\sqrt{6}i}{147}$	0	0	0
		0	0	0	0	0	$\frac{5\sqrt{6}i}{1617}$	0	0	0	0	0	0	$\frac{23i}{1617}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{35}i}{1617}$	0
704	$\mathbb{T}_{5,0}^{(a)}$	0	0	0	0	0	0	0	0	$\frac{\sqrt{10}i}{231}$	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	$-\frac{5\sqrt{2}i}{231}$	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	$\frac{5\sqrt{2}i}{231}$	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{10}i}{231}$	0	0	
		$-\frac{5i}{1617}$	0	0	0	0	0	0	$\frac{5\sqrt{6}i}{1617}$	0	0	0	0	0	0	
		0	$\frac{25i}{1617}$	0	0	0	0	0	0	$-\frac{3\sqrt{10}i}{539}$	0	0	0	0	0	
		0	0	$-\frac{50i}{1617}$	0	0	0	0	0	0	$\frac{10\sqrt{3}i}{1617}$	0	0	0	0	
		0	0	0	$\frac{50i}{1617}$	0	0	0	0	0	0	$\frac{10\sqrt{3}i}{1617}$	0	0	0	
		0	0	0	0	$-\frac{25i}{1617}$	0	0	0	0	0	0	$-\frac{3\sqrt{10}i}{539}$	0	0	
		0	0	0	0	0	$\frac{5i}{1617}$	0	0	0	0	0	0	$\frac{5\sqrt{6}i}{1617}$	0	

continued ...

Table 9

No.	multipole	matrix														
705	$\mathbb{T}_{5,-1}^{(a)}$	0	0	0	0	0	0	0	$-\frac{2i}{231}$	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	$\frac{2i}{77}$	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{15}i}{231}$	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{5}i}{231}$	0	0	0	
		0	0	0	0	0	0	$-\frac{\sqrt{35}i}{1617}$	0	0	0	0	0	0	0	
		$-\frac{5\sqrt{6}i}{1617}$	0	0	0	0	0	0	$\frac{23i}{1617}$	0	0	0	0	0	0	0
		0	$\frac{10\sqrt{15}i}{1617}$	0	0	0	0	0	0	$-\frac{\sqrt{6}i}{147}$	0	0	0	0	0	0
		0	0	$-\frac{10\sqrt{30}i}{1617}$	0	0	0	0	0	0	$-\frac{\sqrt{10}i}{1617}$	0	0	0	0	0
		0	0	0	$\frac{10\sqrt{15}i}{1617}$	0	0	0	0	0	0	$\frac{13\sqrt{5}i}{1617}$	0	0	0	0
		0	0	0	0	$-\frac{5\sqrt{6}i}{1617}$	0	0	0	0	0	0	$-\frac{5\sqrt{15}i}{1617}$	0	0	0
706	$\mathbb{T}_{5,-2}^{(a)}$	0	0	0	0	0	0	$\frac{i}{231}$	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	$-\frac{\sqrt{21}i}{231}$	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	$\frac{\sqrt{7}i}{77}$	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{35}i}{231}$	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	$-\frac{2i}{231}$	0	0	0	0	0	0	0	0
		$-\frac{5\sqrt{21}i}{1617}$	0	0	0	0	0	0	$\frac{8\sqrt{14}i}{1617}$	0	0	0	0	0	0	0
		0	$\frac{5\sqrt{105}i}{1617}$	0	0	0	0	0	0	$-\frac{2\sqrt{42}i}{1617}$	0	0	0	0	0	0
		0	0	$-\frac{5\sqrt{105}i}{1617}$	0	0	0	0	0	0	$-\frac{4\sqrt{35}i}{1617}$	0	0	0	0	0
		0	0	0	$\frac{5\sqrt{21}i}{1617}$	0	0	0	0	0	0	$\frac{10\sqrt{7}i}{1617}$	0	0	0	0

continued ...

Table 9

No.	multipole	matrix													
707	$\mathbb{T}_{5,-3}^{(a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	$\frac{2\sqrt{2}i}{231}$	0	0	0	0	0	0	
		0	0	0	0	0	0	0	$-\frac{2\sqrt{14}i}{231}$	0	0	0	0	0	
		0	0	0	0	0	0	0	0	$\frac{2\sqrt{14}i}{231}$	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	$-\frac{2\sqrt{3}i}{231}$	0	0	0	0	0	0	0
		$-\frac{10\sqrt{14}i}{1617}$	0	0	0	0	0	0	$\frac{2\sqrt{21}i}{539}$	0	0	0	0	0	0
		0	$\frac{10\sqrt{35}i}{1617}$	0	0	0	0	0	0	$\frac{\sqrt{14}i}{539}$	0	0	0	0	0
		0	0	$-\frac{10\sqrt{14}i}{1617}$	0	0	0	0	0	0	$-\frac{5\sqrt{42}i}{1617}$	0	0	0	0
708	$\mathbb{T}_{5,-4}^{(a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	$\frac{2i}{77}$	0	0	0	0	0	0	
		0	0	0	0	0	0	0	$-\frac{2\sqrt{21}i}{231}$	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	$-\frac{2\sqrt{6}i}{231}$	0	0	0	0	0	0	0
		$-\frac{5\sqrt{14}i}{539}$	0	0	0	0	0	0	$\frac{2\sqrt{21}i}{1617}$	0	0	0	0	0	0
		0	$\frac{5\sqrt{14}i}{539}$	0	0	0	0	0	0	$\frac{2\sqrt{35}i}{539}$	0	0	0	0	0

continued ...

Table 9

No.	multipole	matrix											
709	$\mathbb{T}_{5,-5}^{(a)}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{2\sqrt{30}i}{231}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{\sqrt{30}i}{231}$	0	0	0	0	0
		$-\frac{10\sqrt{7}i}{539}$	0	0	0	0	0	0	$-\frac{5\sqrt{42}i}{1617}$	0	0	0	0
710	$\mathbb{T}_{3,3}^{(1,-1;a)}$	0	0	0	0	$\frac{4\sqrt{3}i}{35}$	0	0	0	0	0	$\frac{2\sqrt{30}i}{35}$	0
		0	0	0	0	0	$\frac{4\sqrt{5}i}{35}$	0	0	0	0	0	$\frac{4\sqrt{30}i}{35}$
		0	0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{210}i}{35}$
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$-\frac{2\sqrt{30}i}{35}$	0	0	0	0	0	$-\frac{4\sqrt{10}i}{35}$	0	0
		0	0	0	0	$-\frac{8\sqrt{3}i}{35}$	0	0	0	0	0	$-\frac{4\sqrt{30}i}{35}$	0
		0	0	0	0	0	$-\frac{2\sqrt{30}i}{35}$	0	0	0	0	0	$-\frac{12\sqrt{5}i}{35}$
		0	0	0	0	0	0	0	0	0	0	0	$-\frac{4\sqrt{35}i}{35}$
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 9

No.	multipole	matrix													
711	$\mathbb{T}_{3,2}^{(1,-1;a)}$	0	0	0	$-\frac{8i}{35}$	0	0	0	0	0	$-\frac{2\sqrt{3}i}{7}$	0	0	0	
		0	0	0	0	$-\frac{4\sqrt{6}i}{105}$	0	0	0	0	0	$-\frac{6\sqrt{15}i}{35}$	0	0	
		0	0	0	0	0	$\frac{4\sqrt{30}i}{105}$	0	0	0	0	0	$-\frac{6\sqrt{5}i}{35}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{105}i}{35}$	
		0	0	$\frac{6\sqrt{5}i}{35}$	0	0	0	0	0	$\frac{16\sqrt{15}i}{105}$	0	0	0	0	
		0	0	0	$\frac{6i}{35}$	0	0	0	0	0	$\frac{8\sqrt{3}i}{21}$	0	0	0	0
		0	0	0	0	$-\frac{6i}{35}$	0	0	0	0	0	$\frac{4\sqrt{10}i}{35}$	0	0	0
		0	0	0	0	0	$-\frac{6\sqrt{5}i}{35}$	0	0	0	0	0	$-\frac{4\sqrt{30}i}{105}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{8\sqrt{105}i}{105}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
712	$\mathbb{T}_{3,1}^{(1,-1;a)}$	0	0	$\frac{12\sqrt{10}i}{175}$	0	0	0	0	0	$\frac{4\sqrt{30}i}{35}$	0	0	0	0	
		0	0	0	$-\frac{4\sqrt{30}i}{525}$	0	0	0	0	0	$\frac{6\sqrt{10}i}{35}$	0	0	0	
		0	0	0	0	$-\frac{4\sqrt{15}i}{75}$	0	0	0	0	0	0	0	0	
		0	0	0	0	0	$\frac{4i}{35}$	0	0	0	0	0	$-\frac{2\sqrt{6}i}{7}$	0	
		0	$-\frac{12i}{35}$	0	0	0	0	0	0	$-\frac{8\sqrt{10}i}{35}$	0	0	0	0	
		0	0	$\frac{6\sqrt{10}i}{175}$	0	0	0	0	0	$-\frac{8\sqrt{30}i}{105}$	0	0	0	0	
		0	0	0	$\frac{24\sqrt{5}i}{175}$	0	0	0	0	0	$\frac{4\sqrt{15}i}{105}$	0	0	0	
		0	0	0	0	$\frac{6\sqrt{10}i}{175}$	0	0	0	0	0	0	$\frac{4i}{7}$	0	
		0	0	0	0	0	$-\frac{12i}{35}$	0	0	0	0	0	$\frac{4\sqrt{6}i}{21}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{4\sqrt{210}i}{105}$	

continued ...

Table 9

No.	multipole	matrix														
713	$\mathbb{T}_{3,0}^{(1,-1;a)}$	0	$-\frac{8\sqrt{15}i}{175}$	0	0	0	0	0	0	$-\frac{2\sqrt{6}i}{7}$	0	0	0	0	0	
		0	0	$\frac{8\sqrt{10}i}{175}$	0	0	0	0	0	0	$-\frac{2\sqrt{30}i}{35}$	0	0	0	0	0
		0	0	0	$\frac{8\sqrt{10}i}{175}$	0	0	0	0	0	0	$\frac{2\sqrt{30}i}{35}$	0	0	0	0
		0	0	0	0	$-\frac{8\sqrt{15}i}{175}$	0	0	0	0	0	0	$\frac{2\sqrt{6}i}{7}$	0	0	0
		$\frac{2\sqrt{15}i}{35}$	0	0	0	0	0	0	$\frac{8\sqrt{10}i}{35}$	0	0	0	0	0	0	0
		0	$-\frac{2\sqrt{15}i}{25}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$-\frac{8\sqrt{15}i}{175}$	0	0	0	0	0	0	$-\frac{8\sqrt{5}i}{35}$	0	0	0	0	0
		0	0	0	$\frac{8\sqrt{15}i}{175}$	0	0	0	0	0	0	$-\frac{8\sqrt{5}i}{35}$	0	0	0	0
		0	0	0	0	$\frac{2\sqrt{15}i}{25}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$-\frac{2\sqrt{15}i}{35}$	0	0	0	0	0	0	0	$\frac{8\sqrt{10}i}{35}$	0
714	$\mathbb{T}_{3,-1}^{(1,-1;a)}$	$\frac{4i}{35}$	0	0	0	0	0	0	$\frac{2\sqrt{6}i}{7}$	0	0	0	0	0	0	
		0	$-\frac{4\sqrt{15}i}{75}$	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	$-\frac{4\sqrt{30}i}{525}$	0	0	0	0	0	0	$-\frac{6\sqrt{10}i}{35}$	0	0	0	0	
		0	0	0	$\frac{12\sqrt{10}i}{175}$	0	0	0	0	0	0	$-\frac{4\sqrt{30}i}{35}$	0	0	0	
		0	0	0	0	0	0	$-\frac{4\sqrt{210}i}{105}$	0	0	0	0	0	0	0	
		$\frac{12i}{35}$	0	0	0	0	0	0	$\frac{4\sqrt{6}i}{21}$	0	0	0	0	0	0	
		0	$-\frac{6\sqrt{10}i}{175}$	0	0	0	0	0	0	$\frac{4i}{7}$	0	0	0	0	0	
		0	0	$-\frac{24\sqrt{5}i}{175}$	0	0	0	0	0	0	$\frac{4\sqrt{15}i}{105}$	0	0	0	0	
		0	0	0	$-\frac{6\sqrt{10}i}{175}$	0	0	0	0	0	0	$-\frac{8\sqrt{30}i}{105}$	0	0	0	
		0	0	0	0	$\frac{12i}{35}$	0	0	0	0	0	0	$-\frac{8\sqrt{10}i}{35}$	0	0	

continued ...

Table 9

No.	multipole	matrix															
715	$\mathbb{T}_{3,-2}^{(1,-1;a)}$	0	0	0	0	0	0	$-\frac{2\sqrt{105}i}{35}$	0	0	0	0	0	0	0	0	0
		$\frac{4\sqrt{30}i}{105}$	0	0	0	0	0	0	0	$\frac{6\sqrt{5}i}{35}$	0	0	0	0	0	0	0
		0	$-\frac{4\sqrt{6}i}{105}$	0	0	0	0	0	0	0	$\frac{6\sqrt{15}i}{35}$	0	0	0	0	0	0
		0	0	$-\frac{8i}{35}$	0	0	0	0	0	0	0	$\frac{2\sqrt{3}i}{7}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{8\sqrt{105}i}{105}$	0	0	0	0	0	0	0	0	0
		$\frac{6\sqrt{5}i}{35}$	0	0	0	0	0	0	0	$-\frac{4\sqrt{30}i}{105}$	0	0	0	0	0	0	0
		0	$\frac{6i}{35}$	0	0	0	0	0	0	0	$\frac{4\sqrt{10}i}{35}$	0	0	0	0	0	0
		0	0	$-\frac{6i}{35}$	0	0	0	0	0	0	0	$\frac{8\sqrt{3}i}{21}$	0	0	0	0	0
		0	0	0	$-\frac{6\sqrt{5}i}{35}$	0	0	0	0	0	0	0	$\frac{16\sqrt{15}i}{105}$	0	0	0	0
716	$\mathbb{T}_{3,-3}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	$-\frac{2\sqrt{210}i}{35}$	0	0	0	0	0	0	0	0	
		$\frac{4\sqrt{5}i}{35}$	0	0	0	0	0	0	$-\frac{4\sqrt{30}i}{35}$	0	0	0	0	0	0	0	
		0	$\frac{4\sqrt{3}i}{35}$	0	0	0	0	0	0	$-\frac{2\sqrt{30}i}{35}$	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	$-\frac{4\sqrt{35}i}{35}$	0	0	0	0	0	0	0	0	
		$\frac{2\sqrt{30}i}{35}$	0	0	0	0	0	0	$-\frac{12\sqrt{5}i}{35}$	0	0	0	0	0	0	0	
		0	$\frac{8\sqrt{3}i}{35}$	0	0	0	0	0	0	$-\frac{4\sqrt{30}i}{35}$	0	0	0	0	0	0	
		0	0	$\frac{2\sqrt{30}i}{35}$	0	0	0	0	0	0	0	$-\frac{4\sqrt{10}i}{35}$	0	0	0	0	

continued ...

Table 9

No.	multipole	matrix													
717	$\mathbb{T}_{5,5}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{4\sqrt{6}i}{75}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	$\frac{8\sqrt{35}i}{525}$	0	0	0	0	0	0	$\frac{8\sqrt{210}i}{525}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{8\sqrt{6}i}{75}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
718	$\mathbb{T}_{5,4}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	$\frac{4\sqrt{105}i}{375}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{4\sqrt{5}i}{125}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	$-\frac{4\sqrt{70}i}{525}$	0	0	0	0	0	$-\frac{16\sqrt{7}i}{175}$	0	0	
		0	0	0	0	0	$\frac{4\sqrt{70}i}{525}$	0	0	0	0	0	$-\frac{16\sqrt{105}i}{2625}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{16\sqrt{30}i}{375}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	

continued ...

Table 9

No.	multipole	matrix													
719	$\mathbb{T}_{5,3}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	$-\frac{4\sqrt{70}i}{375}$	0	0	
		0	0	0	0	0	0	0	0	0	0	0	$\frac{4\sqrt{70}i}{375}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{4\sqrt{10}i}{375}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	$\frac{8\sqrt{70}i}{1575}$	0	0	0	0	0	0	$\frac{8\sqrt{210}i}{525}$	0	0	0
		0	0	0	0	$-\frac{8\sqrt{7}i}{315}$	0	0	0	0	0	0	$-\frac{8\sqrt{70}i}{875}$	0	0
		0	0	0	0	0	$\frac{8\sqrt{70}i}{1575}$	0	0	0	0	0	0	$-\frac{16\sqrt{105}i}{875}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{16\sqrt{15}i}{375}$
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
720	$\mathbb{T}_{5,2}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{7}i}{75}$	0	0	0	
		0	0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{35}i}{125}$	0	0	
		0	0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{105}i}{375}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{5}i}{375}$	
		0	0	$-\frac{4\sqrt{105}i}{1575}$	0	0	0	0	0	0	$-\frac{16\sqrt{35}i}{525}$	0	0	0	0
		0	0	0	$\frac{4\sqrt{21}i}{315}$	0	0	0	0	0	0	$\frac{32\sqrt{7}i}{525}$	0	0	0
		0	0	0	0	$-\frac{4\sqrt{21}i}{315}$	0	0	0	0	0	0	$\frac{16\sqrt{210}i}{2625}$	0	0
		0	0	0	0	0	$\frac{4\sqrt{105}i}{1575}$	0	0	0	0	0	0	$-\frac{64\sqrt{70}i}{2625}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{16\sqrt{5}i}{375}$
		0	0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 9

No.	multipole	matrix													
721	$\mathbb{T}_{5,1}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	$-\frac{4i}{75}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$\frac{4\sqrt{3}i}{75}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	$-\frac{4\sqrt{5}i}{125}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{4\sqrt{5}i}{375}$	0
		0	$\frac{4\sqrt{30}i}{1575}$	0	0	0	0	0	0	$\frac{8\sqrt{3}i}{105}$	0	0	0	0	0
		0	0	$-\frac{8\sqrt{3}i}{315}$	0	0	0	0	0	0	$-\frac{104i}{525}$	0	0	0	0
		0	0	0	$\frac{8\sqrt{6}i}{315}$	0	0	0	0	0	0	$\frac{8\sqrt{2}i}{525}$	0	0	0
		0	0	0	0	$-\frac{8\sqrt{3}i}{315}$	0	0	0	0	0	0	$\frac{88\sqrt{30}i}{2625}$	0	0
		0	0	0	0	0	$\frac{4\sqrt{30}i}{1575}$	0	0	0	0	0	0	$-\frac{184\sqrt{5}i}{2625}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{8\sqrt{7}i}{525}$	
722	$\mathbb{T}_{5,0}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	$\frac{2\sqrt{2}i}{75}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{10}i}{75}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{10}i}{75}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{2}i}{75}$	0	0
		$-\frac{4\sqrt{5}i}{1575}$	0	0	0	0	0	0	$-\frac{8\sqrt{30}i}{525}$	0	0	0	0	0	0
		0	$\frac{4\sqrt{5}i}{315}$	0	0	0	0	0	0	$\frac{24\sqrt{2}i}{175}$	0	0	0	0	0
		0	0	$-\frac{8\sqrt{5}i}{315}$	0	0	0	0	0	0	$-\frac{16\sqrt{15}i}{525}$	0	0	0	0
		0	0	0	$\frac{8\sqrt{5}i}{315}$	0	0	0	0	0	0	$-\frac{16\sqrt{15}i}{525}$	0	0	0
		0	0	0	0	$-\frac{4\sqrt{5}i}{315}$	0	0	0	0	0	0	$\frac{24\sqrt{2}i}{175}$	0	0
		0	0	0	0	0	$\frac{4\sqrt{5}i}{1575}$	0	0	0	0	0	$-\frac{8\sqrt{30}i}{525}$	0	

continued ...

Table 9

No.	multipole	matrix													
723	$\mathbb{T}_{5,-1}^{(1,-1;a)}$	0	0	0	0	0	0	0	$-\frac{4\sqrt{5}i}{375}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$\frac{4\sqrt{5}i}{125}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$-\frac{4\sqrt{3}i}{75}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$\frac{4i}{75}$	0	0	0
		0	0	0	0	0	0	$\frac{8\sqrt{7}i}{525}$	0	0	0	0	0	0	0
		$-\frac{4\sqrt{30}i}{1575}$	0	0	0	0	0	0	$-\frac{184\sqrt{5}i}{2625}$	0	0	0	0	0	0
		0	$\frac{8\sqrt{3}i}{315}$	0	0	0	0	0	0	$\frac{88\sqrt{30}i}{2625}$	0	0	0	0	0
		0	0	$-\frac{8\sqrt{6}i}{315}$	0	0	0	0	0	0	$\frac{8\sqrt{2}i}{525}$	0	0	0	0
		0	0	0	$\frac{8\sqrt{3}i}{315}$	0	0	0	0	0	0	$-\frac{104i}{525}$	0	0	0
		0	0	0	0	$-\frac{4\sqrt{30}i}{1575}$	0	0	0	0	0	0	$\frac{8\sqrt{3}i}{105}$	0	0
724	$\mathbb{T}_{5,-2}^{(1,-1;a)}$	0	0	0	0	0	$\frac{2\sqrt{5}i}{375}$	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	$-\frac{2\sqrt{105}i}{375}$	0	0	0	0	0	
		0	0	0	0	0	0	0	0	$\frac{2\sqrt{35}i}{125}$	0	0	0	0	
		0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{7}i}{75}$	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	$\frac{16\sqrt{5}i}{375}$	0	0	0	0	0	0	0	
		$-\frac{4\sqrt{105}i}{1575}$	0	0	0	0	0	0	$-\frac{64\sqrt{70}i}{2625}$	0	0	0	0	0	
		0	$\frac{4\sqrt{21}i}{315}$	0	0	0	0	0	0	$\frac{16\sqrt{210}i}{2625}$	0	0	0	0	
		0	0	$-\frac{4\sqrt{21}i}{315}$	0	0	0	0	0	0	$\frac{32\sqrt{7}i}{525}$	0	0	0	
		0	0	0	$\frac{4\sqrt{105}i}{1575}$	0	0	0	0	0	0	$-\frac{16\sqrt{35}i}{525}$	0	0	

continued ...

Table 9

No.	multipole	matrix													
725	$\mathbb{T}_{5,-3}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	$\frac{4\sqrt{10}i}{375}$	0	0	0	0	0	0	
		0	0	0	0	0	0	0	$-\frac{4\sqrt{70}i}{375}$	0	0	0	0	0	
		0	0	0	0	0	0	0	0	$\frac{4\sqrt{70}i}{375}$	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	$\frac{16\sqrt{15}i}{375}$	0	0	0	0	0	0	0
		$-\frac{8\sqrt{70}i}{1575}$	0	0	0	0	0	0	$-\frac{16\sqrt{105}i}{875}$	0	0	0	0	0	0
		0	$\frac{8\sqrt{7}i}{315}$	0	0	0	0	0	0	$-\frac{8\sqrt{70}i}{875}$	0	0	0	0	0
0	0	$-\frac{8\sqrt{70}i}{1575}$	0	0	0	0	0	0	0	$\frac{8\sqrt{210}i}{525}$	0	0	0		
726	$\mathbb{T}_{5,-4}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	$\frac{4\sqrt{5}i}{125}$	0	0	0	0	0	0	
		0	0	0	0	0	0	0	$-\frac{4\sqrt{105}i}{375}$	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	$\frac{16\sqrt{30}i}{375}$	0	0	0	0	0	0	0
		$-\frac{4\sqrt{70}i}{525}$	0	0	0	0	0	0	$-\frac{16\sqrt{105}i}{2625}$	0	0	0	0	0	0
		0	$\frac{4\sqrt{70}i}{525}$	0	0	0	0	0	0	$-\frac{16\sqrt{7}i}{175}$	0	0	0	0	0

continued ...

Table 9

No.	multipole	matrix												
727	$\mathbb{T}_{5,-5}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{4\sqrt{6}i}{75}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{8\sqrt{6}i}{75}$	0	0	0	0	0	0
				$-\frac{8\sqrt{35}i}{525}$	0	0	0	0	0	$\frac{8\sqrt{210}i}{525}$	0	0	0	0
728	$\mathbb{T}_{1,1}^{(1,0;a)}$	0	0	$-\frac{\sqrt{2}i}{10}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	$-\frac{\sqrt{6}i}{10}$	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{\sqrt{3}i}{5}$	0	0	0	0	0	0	0	0
		0	0	0	0	0	$-\frac{\sqrt{5}i}{5}$	0	0	0	0	0	0	0
		0	$\frac{6\sqrt{5}i}{35}$	0	0	0	0	0	$\frac{\sqrt{2}i}{14}$	0	0	0	0	0
		0	0	$\frac{12\sqrt{2}i}{35}$	0	0	0	0	0	$\frac{\sqrt{6}i}{14}$	0	0	0	0
		0	0	0	$\frac{18i}{35}$	0	0	0	0	0	$\frac{\sqrt{3}i}{7}$	0	0	0
		0	0	0	0	$\frac{12\sqrt{2}i}{35}$	0	0	0	0	0	$\frac{\sqrt{5}i}{7}$	0	0
		0	0	0	0	0	$\frac{6\sqrt{5}i}{35}$	0	0	0	0	0	$\frac{\sqrt{30}i}{14}$	0
				0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{42}i}{14}$

continued ...

Table 9

No.	multipole	matrix													
729	$\mathbb{T}_{1,0}^{(1,0;a)}$	0	$\frac{\sqrt{2}i}{5}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$\frac{\sqrt{3}i}{5}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$\frac{\sqrt{3}i}{5}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{\sqrt{2}i}{5}$	0	0	0	0	0	0	0	0	0
		$-\frac{3\sqrt{2}i}{7}$	0	0	0	0	0	0	$-\frac{\sqrt{3}i}{7}$	0	0	0	0	0	0
		0	$-\frac{9\sqrt{2}i}{35}$	0	0	0	0	0	0	$-\frac{\sqrt{5}i}{7}$	0	0	0	0	0
		0	0	$-\frac{3\sqrt{2}i}{35}$	0	0	0	0	0	0	$-\frac{\sqrt{6}i}{7}$	0	0	0	0
		0	0	0	$\frac{3\sqrt{2}i}{35}$	0	0	0	0	0	0	$-\frac{\sqrt{6}i}{7}$	0	0	0
		0	0	0	0	$\frac{9\sqrt{2}i}{35}$	0	0	0	0	0	0	$-\frac{\sqrt{5}i}{7}$	0	0
		0	0	0	0	0	$\frac{3\sqrt{2}i}{7}$	0	0	0	0	0	0	$-\frac{\sqrt{3}i}{7}$	0
730	$\mathbb{T}_{1,-1}^{(1,0;a)}$	$-\frac{\sqrt{5}i}{5}$	0	0	0	0	0	0	0	0	0	0	0	0	
		0	$-\frac{\sqrt{3}i}{5}$	0	0	0	0	0	0	0	0	0	0	0	
		0	0	$-\frac{\sqrt{6}i}{10}$	0	0	0	0	0	0	0	0	0	0	
		0	0	0	$-\frac{\sqrt{2}i}{10}$	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	$\frac{\sqrt{42}i}{14}$	0	0	0	0	0	0	
		$-\frac{6\sqrt{5}i}{35}$	0	0	0	0	0	0	$\frac{\sqrt{30}i}{14}$	0	0	0	0	0	
		0	$-\frac{12\sqrt{2}i}{35}$	0	0	0	0	0	0	$\frac{\sqrt{5}i}{7}$	0	0	0	0	
		0	0	$-\frac{18i}{35}$	0	0	0	0	0	0	$\frac{\sqrt{3}i}{7}$	0	0	0	
		0	0	0	$-\frac{12\sqrt{2}i}{35}$	0	0	0	0	0	0	$\frac{\sqrt{6}i}{14}$	0	0	
		0	0	0	0	$-\frac{6\sqrt{5}i}{35}$	0	0	0	0	0	0	$\frac{\sqrt{2}i}{14}$	0	

continued ...

Table 9

No.	multipole	matrix												
731	$\mathbb{T}_{3,3}^{(1,0;a)}$	0	0	0	0	$\frac{\sqrt{15}i}{70}$	0	0	0	0	0	$-\frac{\sqrt{6}i}{21}$	0	0
		0	0	0	0	0	$\frac{i}{14}$	0	0	0	0	0	$-\frac{2\sqrt{6}i}{21}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{42}i}{21}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$-\frac{2\sqrt{6}i}{21}$	0	0	0	0	0	$-\frac{\sqrt{2}i}{42}$	0	0	0
		0	0	0	0	$-\frac{8\sqrt{15}i}{105}$	0	0	0	0	0	$-\frac{\sqrt{6}i}{42}$	0	0
		0	0	0	0	0	$-\frac{2\sqrt{6}i}{21}$	0	0	0	0	0	$-\frac{i}{14}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{7}i}{42}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
732	$\mathbb{T}_{3,2}^{(1,0;a)}$	0	0	0	$-\frac{\sqrt{5}i}{35}$	0	0	0	0	0	$\frac{\sqrt{15}i}{21}$	0	0	0
		0	0	0	0	$-\frac{\sqrt{30}i}{210}$	0	0	0	0	0	$\frac{\sqrt{3}i}{7}$	0	0
		0	0	0	0	0	$\frac{\sqrt{6}i}{42}$	0	0	0	0	0	$\frac{i}{7}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{21}i}{21}$
		0	0	$\frac{2i}{7}$	0	0	0	0	0	$\frac{2\sqrt{3}i}{63}$	0	0	0	0
		0	0	0	$\frac{2\sqrt{5}i}{35}$	0	0	0	0	0	$\frac{\sqrt{15}i}{63}$	0	0	0
		0	0	0	0	$-\frac{2\sqrt{5}i}{35}$	0	0	0	0	0	$\frac{\sqrt{2}i}{42}$	0	0
		0	0	0	0	0	$-\frac{2i}{7}$	0	0	0	0	0	$-\frac{\sqrt{6}i}{126}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{21}i}{63}$
		0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 9

No.	multipole	matrix														
733	$\mathbb{T}_{3,1}^{(1,0;a)}$	0	0	$\frac{3\sqrt{2}i}{70}$	0	0	0	0	0	0	$-\frac{2\sqrt{6}i}{21}$	0	0	0	0	
		0	0	0	$-\frac{\sqrt{6}i}{210}$	0	0	0	0	0	0	$-\frac{\sqrt{2}i}{7}$	0	0	0	0
		0	0	0	0	$-\frac{\sqrt{3}i}{30}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$\frac{\sqrt{5}i}{70}$	0	0	0	0	0	0	0	$\frac{\sqrt{30}i}{21}$	0
		0	$-\frac{4\sqrt{5}i}{35}$	0	0	0	0	0	0	$-\frac{\sqrt{2}i}{21}$	0	0	0	0	0	0
		0	0	$\frac{2\sqrt{2}i}{35}$	0	0	0	0	0	0	$-\frac{\sqrt{6}i}{63}$	0	0	0	0	0
		0	0	0	$\frac{8i}{35}$	0	0	0	0	0	0	$\frac{\sqrt{3}i}{126}$	0	0	0	0
		0	0	0	0	$\frac{2\sqrt{2}i}{35}$	0	0	0	0	0	0	$\frac{\sqrt{5}i}{42}$	0	0	0
		0	0	0	0	0	$-\frac{4\sqrt{5}i}{35}$	0	0	0	0	0	0	0	$\frac{\sqrt{30}i}{126}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{42}i}{126}$
734	$\mathbb{T}_{3,0}^{(1,0;a)}$	0	$-\frac{\sqrt{3}i}{35}$	0	0	0	0	0	0	$\frac{\sqrt{30}i}{21}$	0	0	0	0	0	
		0	0	$\frac{\sqrt{2}i}{35}$	0	0	0	0	0	0	$\frac{\sqrt{6}i}{21}$	0	0	0	0	
		0	0	0	$\frac{\sqrt{2}i}{35}$	0	0	0	0	0	0	$-\frac{\sqrt{6}i}{21}$	0	0	0	
		0	0	0	0	$-\frac{\sqrt{3}i}{35}$	0	0	0	0	0	0	$-\frac{\sqrt{30}i}{21}$	0	0	
		$\frac{2\sqrt{3}i}{21}$	0	0	0	0	0	0	$\frac{\sqrt{2}i}{21}$	0	0	0	0	0	0	
		0	$-\frac{2\sqrt{3}i}{15}$	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	$-\frac{8\sqrt{3}i}{105}$	0	0	0	0	0	0	$-\frac{i}{21}$	0	0	0	0	
		0	0	0	$\frac{8\sqrt{3}i}{105}$	0	0	0	0	0	0	$-\frac{i}{21}$	0	0	0	
		0	0	0	0	$\frac{2\sqrt{3}i}{15}$	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	$-\frac{2\sqrt{3}i}{21}$	0	0	0	0	0	0	0	$\frac{\sqrt{2}i}{21}$	

continued ...

Table 9

No.	multipole	matrix													
735	$\mathbb{T}_{3,-1}^{(1,0;a)}$	$\frac{\sqrt{5}i}{70}$	0	0	0	0	0	0	$-\frac{\sqrt{30}i}{21}$	0	0	0	0	0	0
		0	$-\frac{\sqrt{3}i}{30}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$-\frac{\sqrt{6}i}{210}$	0	0	0	0	0	0	0	$\frac{\sqrt{2}i}{7}$	0	0	0
		0	0	0	$\frac{3\sqrt{2}i}{70}$	0	0	0	0	0	0	0	$\frac{2\sqrt{6}i}{21}$	0	0
		0	0	0	0	0	0	$-\frac{\sqrt{42}i}{126}$	0	0	0	0	0	0	0
		$\frac{4\sqrt{5}i}{35}$	0	0	0	0	0	0	$\frac{\sqrt{30}i}{126}$	0	0	0	0	0	0
		0	$-\frac{2\sqrt{2}i}{35}$	0	0	0	0	0	0	$\frac{\sqrt{5}i}{42}$	0	0	0	0	0
		0	0	$-\frac{8i}{35}$	0	0	0	0	0	0	$\frac{\sqrt{3}i}{126}$	0	0	0	0
		0	0	0	$-\frac{2\sqrt{2}i}{35}$	0	0	0	0	0	0	0	$-\frac{\sqrt{6}i}{63}$	0	0
		0	0	0	0	$\frac{4\sqrt{5}i}{35}$	0	0	0	0	0	0	0	$-\frac{\sqrt{2}i}{21}$	0
736	$\mathbb{T}_{3,-2}^{(1,0;a)}$	0	0	0	0	0	0	$\frac{\sqrt{21}i}{21}$	0	0	0	0	0	0	
		$\frac{\sqrt{6}i}{42}$	0	0	0	0	0	0	$-\frac{i}{7}$	0	0	0	0	0	
		0	$-\frac{\sqrt{30}i}{210}$	0	0	0	0	0	0	$-\frac{\sqrt{3}i}{7}$	0	0	0	0	
		0	0	$-\frac{\sqrt{5}i}{35}$	0	0	0	0	0	0	$-\frac{\sqrt{15}i}{21}$	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	$-\frac{\sqrt{21}i}{63}$	0	0	0	0	0	0	
		$\frac{2i}{7}$	0	0	0	0	0	0	$-\frac{\sqrt{6}i}{126}$	0	0	0	0	0	
		0	$\frac{2\sqrt{5}i}{35}$	0	0	0	0	0	0	$\frac{\sqrt{2}i}{42}$	0	0	0	0	
		0	0	$-\frac{2\sqrt{5}i}{35}$	0	0	0	0	0	0	$\frac{\sqrt{15}i}{63}$	0	0	0	
		0	0	0	$-\frac{2i}{7}$	0	0	0	0	0	0	$\frac{2\sqrt{3}i}{63}$	0	0	

continued ...

Table 9

No.	multipole	matrix													
739	$\mathbb{T}_{5,4}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{70}i}{55}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{30}i}{55}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	$-\frac{2\sqrt{105}i}{77}$	0	0	0	0	0	0	$-\frac{\sqrt{42}i}{231}$	0	0
		0	0	0	0	0	$\frac{2\sqrt{105}i}{77}$	0	0	0	0	0	0	$-\frac{\sqrt{70}i}{1155}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{5}i}{165}$
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
740	$\mathbb{T}_{5,3}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	0	$\frac{4\sqrt{105}i}{165}$	0	0	
		0	0	0	0	0	0	0	0	0	0	0	$-\frac{4\sqrt{105}i}{165}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{4\sqrt{15}i}{165}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	$\frac{4\sqrt{105}i}{231}$	0	0	0	0	0	$\frac{\sqrt{35}i}{231}$	0	0	0	0
		0	0	0	0	$-\frac{10\sqrt{42}i}{231}$	0	0	0	0	0	$-\frac{\sqrt{105}i}{1155}$	0	0	0
		0	0	0	0	0	$\frac{4\sqrt{105}i}{231}$	0	0	0	0	0	$-\frac{\sqrt{70}i}{385}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{10}i}{165}$
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 9

No.	multipole	matrix												
741	$\mathbb{T}_{5,2}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{42}i}{33}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{210}i}{55}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{70}i}{55}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{30}i}{165}$
		0	0	$-\frac{\sqrt{70}i}{77}$	0	0	0	0	0	$-\frac{\sqrt{210}i}{693}$	0	0	0	0
		0	0	0	$\frac{5\sqrt{14}i}{77}$	0	0	0	0	0	$\frac{2\sqrt{42}i}{693}$	0	0	0
		0	0	0	0	$-\frac{5\sqrt{14}i}{77}$	0	0	0	0	0	$\frac{2\sqrt{35}i}{1155}$	0	0
		0	0	0	0	0	$\frac{\sqrt{70}i}{77}$	0	0	0	0	0	$-\frac{8\sqrt{105}i}{3465}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{30}i}{495}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
742	$\mathbb{T}_{5,1}^{(1,0;a)}$	0	0	0	0	0	0	0	0	$\frac{2\sqrt{6}i}{33}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{2}i}{11}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{30}i}{55}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{30}i}{165}$	0
		0	$\frac{2\sqrt{5}i}{77}$	0	0	0	0	0	0	$\frac{5\sqrt{2}i}{462}$	0	0	0	0
		0	0	$-\frac{10\sqrt{2}i}{77}$	0	0	0	0	0	$-\frac{13\sqrt{6}i}{1386}$	0	0	0	0
		0	0	0	$\frac{20i}{77}$	0	0	0	0	0	$\frac{\sqrt{3}i}{693}$	0	0	0
		0	0	0	0	$-\frac{10\sqrt{2}i}{77}$	0	0	0	0	0	$\frac{\sqrt{5}i}{105}$	0	0
		0	0	0	0	0	$\frac{2\sqrt{5}i}{77}$	0	0	0	0	0	$-\frac{23\sqrt{30}i}{6930}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{42}i}{1386}$

continued ...

Table 9

No.	multipole	matrix													
743	$\mathbb{T}_{5,0}^{(1,0;a)}$	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{3}i}{33}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{15}i}{33}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{15}i}{33}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{3}i}{33}$	0	0
		$-\frac{\sqrt{30}i}{231}$	0	0	0	0	0	0	$-\frac{\sqrt{5}i}{231}$	0	0	0	0	0	0
		0	$\frac{5\sqrt{30}i}{231}$	0	0	0	0	0	0	$\frac{\sqrt{3}i}{77}$	0	0	0	0	0
		0	0	$-\frac{10\sqrt{30}i}{231}$	0	0	0	0	0	0	$-\frac{\sqrt{10}i}{231}$	0	0	0	0
		0	0	0	$\frac{10\sqrt{30}i}{231}$	0	0	0	0	0	0	$-\frac{\sqrt{10}i}{231}$	0	0	0
		0	0	0	0	$-\frac{5\sqrt{30}i}{231}$	0	0	0	0	0	0	$\frac{\sqrt{3}i}{77}$	0	0
		0	0	0	0	0	$\frac{\sqrt{30}i}{231}$	0	0	0	0	0	0	$-\frac{\sqrt{5}i}{231}$	0
744	$\mathbb{T}_{5,-1}^{(1,0;a)}$	0	0	0	0	0	0	0	$\frac{2\sqrt{30}i}{165}$	0	0	0	0	0	
		0	0	0	0	0	0	0	0	$-\frac{2\sqrt{30}i}{55}$	0	0	0	0	
		0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{2}i}{11}$	0	0	0	
		0	0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{6}i}{33}$	0	0	
		0	0	0	0	0	0	$\frac{\sqrt{42}i}{1386}$	0	0	0	0	0	0	
		$-\frac{2\sqrt{5}i}{77}$	0	0	0	0	0	0	$-\frac{23\sqrt{30}i}{6930}$	0	0	0	0	0	
		0	$\frac{10\sqrt{2}i}{77}$	0	0	0	0	0	0	$\frac{\sqrt{5}i}{105}$	0	0	0	0	
		0	0	$-\frac{20i}{77}$	0	0	0	0	0	0	$\frac{\sqrt{3}i}{693}$	0	0	0	
		0	0	0	$\frac{10\sqrt{2}i}{77}$	0	0	0	0	0	0	$-\frac{13\sqrt{6}i}{1386}$	0	0	
		0	0	0	0	$-\frac{2\sqrt{5}i}{77}$	0	0	0	0	0	0	$\frac{5\sqrt{2}i}{462}$	0	

continued ...

Table 9

No.	multipole	matrix														
745	$\mathbb{T}_{5,-2}^{(1,0;a)}$	0	0	0	0	0	0	$-\frac{\sqrt{30i}}{165}$	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	$\frac{\sqrt{70i}}{55}$	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	$-\frac{\sqrt{210i}}{55}$	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	$\frac{\sqrt{42i}}{33}$	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	$\frac{\sqrt{30i}}{495}$	0	0	0	0	0	0	0	0
		$-\frac{\sqrt{70i}}{77}$	0	0	0	0	0	0	$-\frac{8\sqrt{105i}}{3465}$	0	0	0	0	0	0	0
		0	$\frac{5\sqrt{14i}}{77}$	0	0	0	0	0	0	0	$\frac{2\sqrt{35i}}{1155}$	0	0	0	0	0
		0	0	$-\frac{5\sqrt{14i}}{77}$	0	0	0	0	0	0	0	$\frac{2\sqrt{42i}}{693}$	0	0	0	0
		0	0	0	$\frac{\sqrt{70i}}{77}$	0	0	0	0	0	0	0	$-\frac{\sqrt{210i}}{693}$	0	0	0
746	$\mathbb{T}_{5,-3}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0		
		0	0	0	0	0	0	$-\frac{4\sqrt{15i}}{165}$	0	0	0	0	0	0		
		0	0	0	0	0	0	0	$\frac{4\sqrt{105i}}{165}$	0	0	0	0	0		
		0	0	0	0	0	0	0	0	$-\frac{4\sqrt{105i}}{165}$	0	0	0	0		
		0	0	0	0	0	0	0	0	0	0	0	0	0		
		0	0	0	0	0	0	0	0	0	0	0	0	0		
		0	0	0	0	0	0	$\frac{\sqrt{10i}}{165}$	0	0	0	0	0	0	0	
		$-\frac{4\sqrt{105i}}{231}$	0	0	0	0	0	0	$-\frac{\sqrt{70i}}{385}$	0	0	0	0	0	0	
		0	$\frac{10\sqrt{42i}}{231}$	0	0	0	0	0	0	0	$-\frac{\sqrt{105i}}{1155}$	0	0	0	0	
		0	0	$-\frac{4\sqrt{105i}}{231}$	0	0	0	0	0	0	0	$\frac{\sqrt{35i}}{231}$	0	0	0	

continued ...

Table 9

No.	multipole	matrix												
747	$\mathbb{T}_{5,-4}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{2\sqrt{30i}}{55}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	$\frac{2\sqrt{70i}}{55}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{2\sqrt{5i}}{165}$	0	0	0	0	0	0
		$-\frac{2\sqrt{105i}}{77}$	0	0	0	0	0	0	$-\frac{\sqrt{70i}}{1155}$	0	0	0	0	0
		0	$\frac{2\sqrt{105i}}{77}$	0	0	0	0	0	0	$-\frac{\sqrt{42i}}{231}$	0	0	0	0
748	$\mathbb{T}_{5,-5}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	$-\frac{4i}{11}$	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	$\frac{i}{33}$	0	0	0	0	0	
		$-\frac{2\sqrt{210i}}{77}$	0	0	0	0	0	0	$\frac{\sqrt{35i}}{231}$	0	0	0	0	0

continued ...

Table 9

No.	multipole	matrix														
749	$\mathbb{T}_{1,1}^{(1,1;a)}$	0	0	$\frac{2\sqrt{10}i}{25}$	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	$\frac{2\sqrt{30}i}{25}$	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	$\frac{4\sqrt{15}i}{25}$	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	$\frac{4i}{5}$	0	0	0	0	0	0	0	0	
		0	$\frac{16i}{35}$	0	0	0	0	0	0	$-\frac{\sqrt{10}i}{35}$	0	0	0	0	0	
		0	0	$\frac{32\sqrt{10}i}{175}$	0	0	0	0	0	0	$-\frac{\sqrt{30}i}{35}$	0	0	0	0	
		0	0	0	$\frac{48\sqrt{5}i}{175}$	0	0	0	0	0	0	$-\frac{2\sqrt{15}i}{35}$	0	0	0	
		0	0	0	0	$\frac{32\sqrt{10}i}{175}$	0	0	0	0	0	0	$-\frac{2i}{7}$	0	0	
		0	0	0	0	0	$\frac{16i}{35}$	0	0	0	0	0	0	$-\frac{\sqrt{6}i}{7}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{210}i}{35}$	
750	$\mathbb{T}_{1,0}^{(1,1;a)}$	0	$-\frac{4\sqrt{10}i}{25}$	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	$-\frac{4\sqrt{15}i}{25}$	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	$-\frac{4\sqrt{15}i}{25}$	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	$-\frac{4\sqrt{10}i}{25}$	0	0	0	0	0	0	0	0	0	
		$-\frac{8\sqrt{10}i}{35}$	0	0	0	0	0	0	$\frac{2\sqrt{15}i}{35}$	0	0	0	0	0	0	
		0	$-\frac{24\sqrt{10}i}{175}$	0	0	0	0	0	0	0	$\frac{2i}{7}$	0	0	0	0	0
		0	0	$-\frac{8\sqrt{10}i}{175}$	0	0	0	0	0	0	0	$\frac{2\sqrt{30}i}{35}$	0	0	0	0
		0	0	0	$\frac{8\sqrt{10}i}{175}$	0	0	0	0	0	0	0	$\frac{2\sqrt{30}i}{35}$	0	0	0
		0	0	0	0	$\frac{24\sqrt{10}i}{175}$	0	0	0	0	0	0	0	$\frac{2i}{7}$	0	0
		0	0	0	0	0	$\frac{8\sqrt{10}i}{35}$	0	0	0	0	0	0	0	$\frac{2\sqrt{15}i}{35}$	0

continued ...

Table 9

No.	multipole	matrix												
753	$\mathbb{T}_{3,2}^{(1,1;a)}$	0	0	0	$\frac{2\sqrt{15}i}{35}$	0	0	0	0	0	$-\frac{2\sqrt{5}i}{105}$	0	0	0
		0	0	0	0	$\frac{\sqrt{10}i}{35}$	0	0	0	0	0	$-\frac{2i}{35}$	0	0
		0	0	0	0	0	$-\frac{\sqrt{2}i}{7}$	0	0	0	0	0	$-\frac{2\sqrt{3}i}{105}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{7}i}{105}$
		0	0	$\frac{4\sqrt{3}i}{63}$	0	0	0	0	0	$-\frac{4i}{105}$	0	0	0	0
		0	0	0	$\frac{4\sqrt{15}i}{315}$	0	0	0	0	0	$-\frac{2\sqrt{5}i}{105}$	0	0	0
		0	0	0	0	$-\frac{4\sqrt{15}i}{315}$	0	0	0	0	0	$-\frac{\sqrt{6}i}{105}$	0	0
		0	0	0	0	0	$-\frac{4\sqrt{3}i}{63}$	0	0	0	0	0	$\frac{\sqrt{2}i}{105}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{7}i}{105}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
754	$\mathbb{T}_{3,1}^{(1,1;a)}$	0	0	$-\frac{3\sqrt{6}i}{35}$	0	0	0	0	0	$\frac{4\sqrt{2}i}{105}$	0	0	0	0
		0	0	0	$\frac{\sqrt{2}i}{35}$	0	0	0	0	0	$\frac{2\sqrt{6}i}{105}$	0	0	0
		0	0	0	0	$\frac{i}{5}$	0	0	0	0	0	0	0	0
		0	0	0	0	0	$-\frac{\sqrt{15}i}{35}$	0	0	0	0	0	$-\frac{2\sqrt{10}i}{105}$	0
		0	$-\frac{8\sqrt{15}i}{315}$	0	0	0	0	0	$\frac{2\sqrt{6}i}{105}$	0	0	0	0	0
		0	0	$\frac{4\sqrt{6}i}{315}$	0	0	0	0	0	$\frac{2\sqrt{2}i}{105}$	0	0	0	0
		0	0	0	$\frac{16\sqrt{3}i}{315}$	0	0	0	0	0	$-\frac{i}{105}$	0	0	0
		0	0	0	0	$\frac{4\sqrt{6}i}{315}$	0	0	0	0	0	$-\frac{\sqrt{15}i}{105}$	0	0
		0	0	0	0	0	$-\frac{8\sqrt{15}i}{315}$	0	0	0	0	0	$-\frac{\sqrt{10}i}{105}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{14}i}{105}$

continued ...

Table 9

No.	multipole	matrix														
755	$\mathbb{T}_{3,0}^{(1,1;a)}$	0	$\frac{6i}{35}$	0	0	0	0	0	0	$-\frac{2\sqrt{10}i}{105}$	0	0	0	0	0	
		0	0	$-\frac{2\sqrt{6}i}{35}$	0	0	0	0	0	0	$-\frac{2\sqrt{2}i}{105}$	0	0	0	0	0
		0	0	0	$-\frac{2\sqrt{6}i}{35}$	0	0	0	0	0	0	$\frac{2\sqrt{2}i}{105}$	0	0	0	0
		0	0	0	0	$\frac{6i}{35}$	0	0	0	0	0	0	$\frac{2\sqrt{10}i}{105}$	0	0	0
		$\frac{4i}{63}$	0	0	0	0	0	0	$-\frac{2\sqrt{6}i}{105}$	0	0	0	0	0	0	0
		0	$-\frac{4i}{45}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$-\frac{16i}{315}$	0	0	0	0	0	0	$\frac{2\sqrt{3}i}{105}$	0	0	0	0	0
		0	0	0	$\frac{16i}{315}$	0	0	0	0	0	0	$\frac{2\sqrt{3}i}{105}$	0	0	0	0
		0	0	0	0	$\frac{4i}{45}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$-\frac{4i}{63}$	0	0	0	0	0	0	0	$-\frac{2\sqrt{6}i}{105}$	0
756	$\mathbb{T}_{3,-1}^{(1,1;a)}$	$-\frac{\sqrt{15}i}{35}$	0	0	0	0	0	0	$\frac{2\sqrt{10}i}{105}$	0	0	0	0	0	0	
		0	$\frac{i}{5}$	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	$\frac{\sqrt{2}i}{35}$	0	0	0	0	0	0	$-\frac{2\sqrt{6}i}{105}$	0	0	0	0	
		0	0	0	$-\frac{3\sqrt{6}i}{35}$	0	0	0	0	0	0	$-\frac{4\sqrt{2}i}{105}$	0	0	0	
		0	0	0	0	0	0	$\frac{\sqrt{14}i}{105}$	0	0	0	0	0	0	0	
		$\frac{8\sqrt{15}i}{315}$	0	0	0	0	0	0	$-\frac{\sqrt{10}i}{105}$	0	0	0	0	0	0	
		0	$-\frac{4\sqrt{6}i}{315}$	0	0	0	0	0	0	$-\frac{\sqrt{15}i}{105}$	0	0	0	0	0	
		0	0	$-\frac{16\sqrt{3}i}{315}$	0	0	0	0	0	0	$-\frac{i}{105}$	0	0	0	0	
		0	0	0	$-\frac{4\sqrt{6}i}{315}$	0	0	0	0	0	0	$\frac{2\sqrt{2}i}{105}$	0	0	0	
		0	0	0	0	$\frac{8\sqrt{15}i}{315}$	0	0	0	0	0	0	$\frac{2\sqrt{6}i}{105}$	0	0	

continued ...

Table 9

No.	multipole	matrix																
757	$\mathbb{T}_{3,-2}^{(1,1;a)}$	0	0	0	0	0	0	$-\frac{2\sqrt{7}i}{105}$	0	0	0	0	0	0	0	0	0	0
		$-\frac{\sqrt{2}i}{7}$	0	0	0	0	0	0	$\frac{2\sqrt{3}i}{105}$	0	0	0	0	0	0	0	0	0
		0	$\frac{\sqrt{10}i}{35}$	0	0	0	0	0	0	$\frac{2i}{35}$	0	0	0	0	0	0	0	0
		0	0	$\frac{2\sqrt{15}i}{35}$	0	0	0	0	0	0	$\frac{2\sqrt{5}i}{105}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{2\sqrt{7}i}{105}$	0	0	0	0	0	0	0	0	0	0
		$\frac{4\sqrt{3}i}{63}$	0	0	0	0	0	0	$\frac{\sqrt{2}i}{105}$	0	0	0	0	0	0	0	0	0
		0	$\frac{4\sqrt{15}i}{315}$	0	0	0	0	0	0	$-\frac{\sqrt{6}i}{105}$	0	0	0	0	0	0	0	0
		0	0	$-\frac{4\sqrt{15}i}{315}$	0	0	0	0	0	0	$-\frac{2\sqrt{5}i}{105}$	0	0	0	0	0	0	0
		0	0	0	$-\frac{4\sqrt{3}i}{63}$	0	0	0	0	0	0	0	$-\frac{4i}{105}$	0	0	0	0	0
758	$\mathbb{T}_{3,-3}^{(1,1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	$-\frac{2\sqrt{14}i}{105}$	0	0	0	0	0	0	0	0	0	
		$-\frac{\sqrt{3}i}{7}$	0	0	0	0	0	0	$-\frac{4\sqrt{2}i}{105}$	0	0	0	0	0	0	0	0	
		0	$-\frac{3\sqrt{5}i}{35}$	0	0	0	0	0	0	$-\frac{2\sqrt{2}i}{105}$	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	$\frac{\sqrt{21}i}{105}$	0	0	0	0	0	0	0	0	0	
		$\frac{4\sqrt{2}i}{63}$	0	0	0	0	0	0	$\frac{\sqrt{3}i}{35}$	0	0	0	0	0	0	0	0	
		0	$\frac{16\sqrt{5}i}{315}$	0	0	0	0	0	0	$\frac{\sqrt{2}i}{35}$	0	0	0	0	0	0	0	
		0	0	$\frac{4\sqrt{2}i}{63}$	0	0	0	0	0	0	0	$\frac{\sqrt{6}i}{105}$	0	0	0	0	0	

continued ...

Table 9

No.	multipole	matrix												
759	$M_{2,2}^{(a)}$	0	0	0	$\frac{16\sqrt{3}}{35}$	0	0	0	0	0	$\frac{4}{35}$	0	0	0
		0	0	0	0	$\frac{32\sqrt{2}}{35}$	0	0	0	0	0	$\frac{4\sqrt{5}}{35}$	0	0
		0	0	0	0	0	$\frac{16\sqrt{10}}{35}$	0	0	0	0	0	$\frac{4\sqrt{15}}{35}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{4\sqrt{35}}{35}$
		0	0	$-\frac{4\sqrt{15}}{35}$	0	0	0	0	0	0	$\frac{8\sqrt{5}}{35}$	0	0	0
		0	0	0	$-\frac{12\sqrt{3}}{35}$	0	0	0	0	0	0	$\frac{32}{35}$	0	0
		0	0	0	0	$-\frac{12\sqrt{3}}{35}$	0	0	0	0	0	$\frac{8\sqrt{30}}{35}$	0	0
		0	0	0	0	0	$-\frac{4\sqrt{15}}{35}$	0	0	0	0	0	$\frac{16\sqrt{10}}{35}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{8\sqrt{35}}{35}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
760	$M_{2,1}^{(a)}$	0	0	$-\frac{24\sqrt{3}}{35}$	0	0	0	0	0	$-\frac{8}{35}$	0	0	0	0
		0	0	0	$-\frac{8}{7}$	0	0	0	0	0	$-\frac{8\sqrt{3}}{35}$	0	0	0
		0	0	0	0	$-\frac{8\sqrt{2}}{35}$	0	0	0	0	0	$-\frac{8\sqrt{5}}{35}$	0	0
		0	0	0	0	0	$\frac{8\sqrt{30}}{35}$	0	0	0	0	0	$-\frac{8\sqrt{5}}{35}$	0
		0	$\frac{4\sqrt{30}}{35}$	0	0	0	0	0	0	$-\frac{4\sqrt{3}}{7}$	0	0	0	0
		0	0	$\frac{8\sqrt{3}}{35}$	0	0	0	0	0	0	$-\frac{44}{35}$	0	0	0
		0	0	0	0	0	0	0	0	0	$-\frac{4\sqrt{2}}{5}$	0	0	0
		0	0	0	0	$-\frac{8\sqrt{3}}{35}$	0	0	0	0	0	$-\frac{4\sqrt{30}}{35}$	0	0
		0	0	0	0	0	$-\frac{4\sqrt{30}}{35}$	0	0	0	0	0	$\frac{4\sqrt{5}}{35}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{4\sqrt{7}}{7}$

continued ...

Table 9

No.	multipole	matrix													
761	$M_{2,0}^{(a)}$	0	$\frac{48}{35}$	0	0	0	0	0	0	$\frac{4\sqrt{10}}{35}$	0	0	0	0	0
		0	0	$\frac{8\sqrt{6}}{35}$	0	0	0	0	0	0	$\frac{12\sqrt{2}}{35}$	0	0	0	0
		0	0	0	$-\frac{8\sqrt{6}}{35}$	0	0	0	0	0	0	$\frac{12\sqrt{2}}{35}$	0	0	0
		0	0	0	0	$-\frac{48}{35}$	0	0	0	0	0	0	$\frac{4\sqrt{10}}{35}$	0	0
		$-\frac{4}{7}$	0	0	0	0	0	0	$\frac{4\sqrt{6}}{7}$	0	0	0	0	0	0
		0	$\frac{4}{35}$	0	0	0	0	0	0	$\frac{12\sqrt{10}}{35}$	0	0	0	0	0
		0	0	$\frac{16}{35}$	0	0	0	0	0	0	$\frac{8\sqrt{3}}{35}$	0	0	0	0
		0	0	0	$\frac{16}{35}$	0	0	0	0	0	0	$-\frac{8\sqrt{3}}{35}$	0	0	0
		0	0	0	0	$\frac{4}{35}$	0	0	0	0	0	0	$-\frac{12\sqrt{10}}{35}$	0	0
		0	0	0	0	0	$-\frac{4}{7}$	0	0	0	0	0	0	$-\frac{4\sqrt{6}}{7}$	0
762	$M_{2,-1}^{(a)}$	$-\frac{8\sqrt{30}}{35}$	0	0	0	0	0	0	$-\frac{8\sqrt{5}}{35}$	0	0	0	0	0	
		0	$\frac{8\sqrt{2}}{35}$	0	0	0	0	0	0	$-\frac{8\sqrt{5}}{35}$	0	0	0	0	
		0	0	$\frac{8}{7}$	0	0	0	0	0	0	$-\frac{8\sqrt{3}}{35}$	0	0	0	
		0	0	0	$\frac{24\sqrt{3}}{35}$	0	0	0	0	0	0	$-\frac{8}{35}$	0	0	
		0	0	0	0	0	0	$-\frac{4\sqrt{7}}{7}$	0	0	0	0	0	0	
		$-\frac{4\sqrt{30}}{35}$	0	0	0	0	0	0	$-\frac{4\sqrt{5}}{35}$	0	0	0	0	0	
		0	$-\frac{8\sqrt{3}}{35}$	0	0	0	0	0	0	$\frac{4\sqrt{30}}{35}$	0	0	0	0	
		0	0	0	0	0	0	0	0	0	$\frac{4\sqrt{2}}{5}$	0	0	0	
		0	0	0	$\frac{8\sqrt{3}}{35}$	0	0	0	0	0	0	$\frac{44}{35}$	0	0	
		0	0	0	0	$\frac{4\sqrt{30}}{35}$	0	0	0	0	0	0	$\frac{4\sqrt{3}}{7}$	0	

continued ...

Table 9

No.	multipole	matrix															
763	$M_{2,-2}^{(a)}$	0	0	0	0	0	0	$\frac{4\sqrt{35}}{35}$	0	0	0	0	0	0	0	0	0
		$-\frac{16\sqrt{10}}{35}$	0	0	0	0	0	0	$\frac{4\sqrt{15}}{35}$	0	0	0	0	0	0	0	0
		0	$-\frac{32\sqrt{2}}{35}$	0	0	0	0	0	0	$\frac{4\sqrt{5}}{35}$	0	0	0	0	0	0	0
		0	0	$-\frac{16\sqrt{3}}{35}$	0	0	0	0	0	0	$\frac{4}{35}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{8\sqrt{35}}{35}$	0	0	0	0	0	0	0	0	0
		$-\frac{4\sqrt{15}}{35}$	0	0	0	0	0	0	$-\frac{16\sqrt{10}}{35}$	0	0	0	0	0	0	0	0
		0	$-\frac{12\sqrt{3}}{35}$	0	0	0	0	0	0	$-\frac{8\sqrt{30}}{35}$	0	0	0	0	0	0	0
		0	0	$-\frac{12\sqrt{3}}{35}$	0	0	0	0	0	0	$-\frac{32}{35}$	0	0	0	0	0	0
		0	0	0	$-\frac{4\sqrt{15}}{35}$	0	0	0	0	0	0	0	$-\frac{8\sqrt{5}}{35}$	0	0	0	0
764	$M_{4,4}^{(a)}$	0	0	0	0	0	$-\frac{4\sqrt{14}}{21}$	0	0	0	0	0	$-\frac{4\sqrt{21}}{35}$	0			
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{4}{5}$			
		0	0	0	0	0	0	0	0	0	0	0	0	0			
		0	0	0	0	0	0	0	0	0	0	0	0	0			
		0	0	0	0	$\frac{4\sqrt{14}}{21}$	0	0	0	0	0	$-\frac{8\sqrt{35}}{105}$	0	0			
		0	0	0	0	$\frac{4\sqrt{14}}{21}$	0	0	0	0	0	0	$-\frac{16\sqrt{21}}{105}$	0			
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{4\sqrt{6}}{15}$			
		0	0	0	0	0	0	0	0	0	0	0	0	0			
		0	0	0	0	0	0	0	0	0	0	0	0	0			
		0	0	0	0	0	0	0	0	0	0	0	0	0			

continued ...

Table 9

No.	multipole	matrix
765	$M_{4,3}^{(a)}$	0 0 0 0 $\frac{2\sqrt{35}}{21}$ 0 0 0 0 0 0 $\frac{6\sqrt{14}}{35}$ 0 0
		0 0 0 0 0 $-\frac{2\sqrt{21}}{21}$ 0 0 0 0 0 0 $\frac{4\sqrt{14}}{35}$ 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 $-\frac{2\sqrt{2}}{5}$
		0 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 $-\frac{4\sqrt{14}}{21}$ 0 0 0 0 0 0 $\frac{2\sqrt{42}}{21}$ 0 0 0
		0 0 0 0 0 0 0 0 0 0 0 $\frac{2\sqrt{14}}{15}$ 0 0
		0 0 0 0 0 $\frac{4\sqrt{14}}{21}$ 0 0 0 0 0 0 $-\frac{2\sqrt{21}}{105}$ 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 $-\frac{2\sqrt{3}}{5}$
		0 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 0
766	$M_{4,2}^{(a)}$	0 0 0 $-\frac{4\sqrt{5}}{21}$ 0 0 0 0 0 0 $-\frac{6\sqrt{15}}{35}$ 0 0 0
		0 0 0 0 $\frac{2\sqrt{30}}{21}$ 0 0 0 0 0 0 $-\frac{2\sqrt{3}}{35}$ 0 0
		0 0 0 0 0 $-\frac{2\sqrt{6}}{21}$ 0 0 0 0 0 0 $\frac{22}{35}$ 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 $-\frac{2\sqrt{21}}{35}$
		0 0 $\frac{4}{7}$ 0 0 0 0 0 0 $-\frac{8\sqrt{3}}{21}$ 0 0 0 0
		0 0 0 $-\frac{4\sqrt{5}}{21}$ 0 0 0 0 0 0 $-\frac{4\sqrt{15}}{105}$ 0 0 0
		0 0 0 0 $-\frac{4\sqrt{5}}{21}$ 0 0 0 0 0 0 $\frac{34\sqrt{2}}{105}$ 0 0
		0 0 0 0 0 $\frac{4}{7}$ 0 0 0 0 0 0 $\frac{6\sqrt{6}}{35}$ 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 $-\frac{4\sqrt{21}}{35}$
		0 0 0 0 0 0 0 0 0 0 0 0 0 0

continued ...

Table 9

No.	multipole	matrix													
767	$M_{4,1}^{(a)}$	0	0	$\frac{2\sqrt{10}}{21}$	0	0	0	0	0	$\frac{4\sqrt{30}}{35}$	0	0	0	0	
		0	0	0	$-\frac{2\sqrt{30}}{21}$	0	0	0	0	0	$-\frac{2\sqrt{10}}{35}$	0	0	0	
		0	0	0	0	$\frac{2\sqrt{15}}{21}$	0	0	0	0	0	$-\frac{8\sqrt{6}}{35}$	0	0	
		0	0	0	0	0	$-\frac{2}{21}$	0	0	0	0	0	$\frac{6\sqrt{6}}{35}$	0	
		0	$-\frac{8}{21}$	0	0	0	0	0	0	$\frac{4\sqrt{10}}{21}$	0	0	0	0	
		0	0	$\frac{4\sqrt{10}}{21}$	0	0	0	0	0	0	$-\frac{4\sqrt{30}}{105}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{15}}{15}$	0	0	0
		0	0	0	0	$-\frac{4\sqrt{10}}{21}$	0	0	0	0	0	0	$-\frac{2}{105}$	0	0
		0	0	0	0	0	$\frac{8}{21}$	0	0	0	0	0	0	$\frac{26\sqrt{6}}{105}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{210}}{105}$
768	$M_{4,0}^{(a)}$	0	$-\frac{4}{21}$	0	0	0	0	0	0	$-\frac{6\sqrt{10}}{35}$	0	0	0	0	
		0	0	$\frac{4\sqrt{6}}{21}$	0	0	0	0	0	0	$\frac{2\sqrt{2}}{7}$	0	0	0	0
		0	0	0	$-\frac{4\sqrt{6}}{21}$	0	0	0	0	0	0	$\frac{2\sqrt{2}}{7}$	0	0	0
		0	0	0	0	$\frac{4}{21}$	0	0	0	0	0	0	$-\frac{6\sqrt{10}}{35}$	0	0
		$\frac{4}{21}$	0	0	0	0	0	0	$-\frac{4\sqrt{6}}{21}$	0	0	0	0	0	0
		0	$-\frac{4}{7}$	0	0	0	0	0	0	$\frac{16\sqrt{10}}{105}$	0	0	0	0	0
		0	0	$\frac{8}{21}$	0	0	0	0	0	0	$\frac{4\sqrt{3}}{21}$	0	0	0	0
		0	0	0	$\frac{8}{21}$	0	0	0	0	0	0	$-\frac{4\sqrt{3}}{21}$	0	0	0
		0	0	0	0	$-\frac{4}{7}$	0	0	0	0	0	0	$-\frac{16\sqrt{10}}{105}$	0	0
		0	0	0	0	0	$\frac{4}{21}$	0	0	0	0	0	0	$\frac{4\sqrt{6}}{21}$	0

continued ...

Table 9

No.	multipole	matrix													
769	$M_{4,-1}^{(a)}$	$\frac{2}{21}$	0	0	0	0	0	0	$\frac{6\sqrt{6}}{35}$	0	0	0	0	0	0
		0	$-\frac{2\sqrt{15}}{21}$	0	0	0	0	0	0	$-\frac{8\sqrt{6}}{35}$	0	0	0	0	0
		0	0	$\frac{2\sqrt{30}}{21}$	0	0	0	0	0	0	$-\frac{2\sqrt{10}}{35}$	0	0	0	0
		0	0	0	$-\frac{2\sqrt{10}}{21}$	0	0	0	0	0	0	$\frac{4\sqrt{30}}{35}$	0	0	0
		0	0	0	0	0	0	$\frac{2\sqrt{210}}{105}$	0	0	0	0	0	0	0
		$\frac{8}{21}$	0	0	0	0	0	0	$-\frac{26\sqrt{6}}{105}$	0	0	0	0	0	0
		0	$-\frac{4\sqrt{10}}{21}$	0	0	0	0	0	0	$\frac{2}{105}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{15}}{15}$	0	0	0	0
		0	0	0	$\frac{4\sqrt{10}}{21}$	0	0	0	0	0	0	$\frac{4\sqrt{30}}{105}$	0	0	0
		0	0	0	0	$-\frac{8}{21}$	0	0	0	0	0	0	$-\frac{4\sqrt{10}}{21}$	0	0
770	$M_{4,-2}^{(a)}$	0	0	0	0	0	0	$-\frac{2\sqrt{21}}{35}$	0	0	0	0	0	0	
		$\frac{2\sqrt{6}}{21}$	0	0	0	0	0	0	$\frac{22}{35}$	0	0	0	0	0	
		0	$-\frac{2\sqrt{30}}{21}$	0	0	0	0	0	0	$-\frac{2\sqrt{3}}{35}$	0	0	0	0	
		0	0	$\frac{4\sqrt{5}}{21}$	0	0	0	0	0	0	$-\frac{6\sqrt{15}}{35}$	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	$\frac{4\sqrt{21}}{35}$	0	0	0	0	0	0	
		$\frac{4}{7}$	0	0	0	0	0	0	$-\frac{6\sqrt{6}}{35}$	0	0	0	0	0	
		0	$-\frac{4\sqrt{5}}{21}$	0	0	0	0	0	0	$-\frac{34\sqrt{2}}{105}$	0	0	0	0	
		0	0	$-\frac{4\sqrt{5}}{21}$	0	0	0	0	0	0	$\frac{4\sqrt{15}}{105}$	0	0	0	
		0	0	0	$\frac{4}{7}$	0	0	0	0	0	0	$\frac{8\sqrt{3}}{21}$	0	0	

continued ...

Table 9

No.	multipole	matrix																				
771	$M_{4,-3}^{(a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	$-\frac{2\sqrt{2}}{5}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		$\frac{2\sqrt{21}}{21}$	0	0	0	0	0	0	$\frac{4\sqrt{14}}{35}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	$-\frac{2\sqrt{35}}{21}$	0	0	0	0	0	0	$\frac{6\sqrt{14}}{35}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{2\sqrt{3}}{5}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		$\frac{4\sqrt{14}}{21}$	0	0	0	0	0	0	$\frac{2\sqrt{21}}{105}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$-\frac{2\sqrt{14}}{15}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$-\frac{4\sqrt{14}}{21}$	0	0	0	0	0	0	$-\frac{2\sqrt{42}}{21}$	0	0	0	0	0	0	0	0	0	0	0
772	$M_{4,-4}^{(a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	$-\frac{4}{5}$	0	0	0	0	0	0	0	0	0	0	0	0	0	
		$\frac{4\sqrt{14}}{21}$	0	0	0	0	0	0	$-\frac{4\sqrt{21}}{35}$	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	$\frac{4\sqrt{6}}{15}$	0	0	0	0	0	0	0	0	0	0	0	0	0	
		$\frac{4\sqrt{14}}{21}$	0	0	0	0	0	0	$\frac{16\sqrt{21}}{105}$	0	0	0	0	0	0	0	0	0	0	0	0	
		0	$\frac{4\sqrt{14}}{21}$	0	0	0	0	0	0	$\frac{8\sqrt{35}}{105}$	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

continued ...

Table 9

No.	multipole	matrix													
773	$M_{2,2}^{(1,-1;a)}$	0	0	0	$-\frac{3\sqrt{2}}{35}$	0	0	0	0	0	$-\frac{2\sqrt{6}}{35}$	0	0	0	
		0	0	0	0	$-\frac{4\sqrt{3}}{35}$	0	0	0	0	0	$-\frac{2\sqrt{30}}{35}$	0	0	0
		0	0	0	0	0	$-\frac{2\sqrt{15}}{35}$	0	0	0	0	0	$-\frac{6\sqrt{10}}{35}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{210}}{35}$	0
		0	0	$\frac{2\sqrt{10}}{35}$	0	0	0	0	0	$\frac{\sqrt{30}}{35}$	0	0	0	0	0
		0	0	0	$\frac{6\sqrt{2}}{35}$	0	0	0	0	0	$\frac{4\sqrt{6}}{35}$	0	0	0	0
		0	0	0	0	$\frac{6\sqrt{2}}{35}$	0	0	0	0	0	$\frac{6\sqrt{5}}{35}$	0	0	0
		0	0	0	0	0	$\frac{2\sqrt{10}}{35}$	0	0	0	0	0	$\frac{4\sqrt{15}}{35}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{210}}{35}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
774	$M_{2,1}^{(1,-1;a)}$	0	0	$\frac{9\sqrt{2}}{70}$	0	0	0	0	0	$\frac{4\sqrt{6}}{35}$	0	0	0	0	
		0	0	0	$\frac{\sqrt{6}}{14}$	0	0	0	0	0	$\frac{12\sqrt{2}}{35}$	0	0	0	
		0	0	0	0	$\frac{\sqrt{3}}{35}$	0	0	0	0	0	$\frac{4\sqrt{30}}{35}$	0	0	
		0	0	0	0	0	$-\frac{3\sqrt{5}}{35}$	0	0	0	0	0	$\frac{4\sqrt{30}}{35}$	0	
		0	$-\frac{4\sqrt{5}}{35}$	0	0	0	0	0	$-\frac{3\sqrt{2}}{14}$	0	0	0	0	0	
		0	0	$-\frac{4\sqrt{2}}{35}$	0	0	0	0	0	$-\frac{11\sqrt{6}}{70}$	0	0	0	0	
		0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{3}}{5}$	0	0	0	
		0	0	0	0	$\frac{4\sqrt{2}}{35}$	0	0	0	0	0	$-\frac{3\sqrt{5}}{35}$	0	0	
		0	0	0	0	0	$\frac{4\sqrt{5}}{35}$	0	0	0	0	0	$\frac{\sqrt{30}}{70}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{42}}{14}$	

continued ...

Table 9

No.	multipole	matrix															
775	$M_{2,0}^{(1,-1;a)}$	0	$-\frac{3\sqrt{6}}{35}$	0	0	0	0	0	0	$-\frac{4\sqrt{15}}{35}$	0	0	0	0	0		
		0	0	$-\frac{3}{35}$	0	0	0	0	0	0	$-\frac{12\sqrt{3}}{35}$	0	0	0	0	0	
		0	0	0	$\frac{3}{35}$	0	0	0	0	0	0	$-\frac{12\sqrt{3}}{35}$	0	0	0	0	
		0	0	0	0	$\frac{3\sqrt{6}}{35}$	0	0	0	0	0	0	$-\frac{4\sqrt{15}}{35}$	0	0	0	
		$\frac{2\sqrt{6}}{21}$	0	0	0	0	0	0	$\frac{3}{7}$	0	0	0	0	0	0	0	
		0	$-\frac{2\sqrt{6}}{105}$	0	0	0	0	0	0	$\frac{3\sqrt{15}}{35}$	0	0	0	0	0	0	0
		0	0	$-\frac{8\sqrt{6}}{105}$	0	0	0	0	0	0	$\frac{3\sqrt{2}}{35}$	0	0	0	0	0	0
		0	0	0	$-\frac{8\sqrt{6}}{105}$	0	0	0	0	0	0	$-\frac{3\sqrt{2}}{35}$	0	0	0	0	0
		0	0	0	0	$-\frac{2\sqrt{6}}{105}$	0	0	0	0	0	0	$-\frac{3\sqrt{15}}{35}$	0	0	0	0
		0	0	0	0	0	$\frac{2\sqrt{6}}{21}$	0	0	0	0	0	0	0	$-\frac{3}{7}$	0	0
776	$M_{2,-1}^{(1,-1;a)}$	$\frac{3\sqrt{5}}{35}$	0	0	0	0	0	0	$\frac{4\sqrt{30}}{35}$	0	0	0	0	0	0	0	
		0	$-\frac{\sqrt{3}}{35}$	0	0	0	0	0	0	$\frac{4\sqrt{30}}{35}$	0	0	0	0	0	0	
		0	0	$-\frac{\sqrt{6}}{14}$	0	0	0	0	0	0	$\frac{12\sqrt{2}}{35}$	0	0	0	0	0	
		0	0	0	$-\frac{9\sqrt{2}}{70}$	0	0	0	0	0	0	$\frac{4\sqrt{6}}{35}$	0	0	0	0	
		0	0	0	0	0	0	$-\frac{\sqrt{42}}{14}$	0	0	0	0	0	0	0	0	
		$\frac{4\sqrt{5}}{35}$	0	0	0	0	0	0	$-\frac{\sqrt{30}}{70}$	0	0	0	0	0	0	0	0
		0	$\frac{4\sqrt{2}}{35}$	0	0	0	0	0	0	0	$\frac{3\sqrt{5}}{35}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{3}}{5}$	0	0	0	0	0
		0	0	0	$-\frac{4\sqrt{2}}{35}$	0	0	0	0	0	0	0	$\frac{11\sqrt{6}}{70}$	0	0	0	0
		0	0	0	0	$-\frac{4\sqrt{5}}{35}$	0	0	0	0	0	0	0	$\frac{3\sqrt{2}}{14}$	0	0	0

continued ...

Table 9

No.	multipole	matrix																
777	$M_{2,-2}^{(1,-1;a)}$	0	0	0	0	0	0	$-\frac{2\sqrt{210}}{35}$	0	0	0	0	0	0	0	0	0	
		$\frac{2\sqrt{15}}{35}$	0	0	0	0	0	0	$-\frac{6\sqrt{10}}{35}$	0	0	0	0	0	0	0	0	0
		0	$\frac{4\sqrt{3}}{35}$	0	0	0	0	0	0	0	$-\frac{2\sqrt{30}}{35}$	0	0	0	0	0	0	0
		0	0	$\frac{3\sqrt{2}}{35}$	0	0	0	0	0	0	0	$-\frac{2\sqrt{6}}{35}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	$-\frac{\sqrt{210}}{35}$	0	0	0	0	0	0	0	0	0
		$\frac{2\sqrt{10}}{35}$	0	0	0	0	0	0	0	$-\frac{4\sqrt{15}}{35}$	0	0	0	0	0	0	0	0
		0	$\frac{6\sqrt{2}}{35}$	0	0	0	0	0	0	0	$-\frac{6\sqrt{5}}{35}$	0	0	0	0	0	0	0
		0	0	$\frac{6\sqrt{2}}{35}$	0	0	0	0	0	0	0	$-\frac{4\sqrt{6}}{35}$	0	0	0	0	0	0
		0	0	0	$\frac{2\sqrt{10}}{35}$	0	0	0	0	0	0	0	0	$-\frac{\sqrt{30}}{35}$	0	0	0	0
778	$M_{4,4}^{(1,-1;a)}$	0	0	0	0	0	$\frac{\sqrt{2}}{21}$	0	0	0	0	0	0	$\frac{2\sqrt{3}}{21}$	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{7}}{21}$	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	$-\frac{2\sqrt{2}}{21}$	0	0	0	0	0	0	$-\frac{2\sqrt{5}}{21}$	0	0	0	0	
		0	0	0	0	0	$-\frac{2\sqrt{2}}{21}$	0	0	0	0	0	0	$-\frac{4\sqrt{3}}{21}$	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{42}}{21}$	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

continued ...

Table 9

No.	multipole	matrix												
779	$M_{4,3}^{(1,-1;a)}$	0	0	0	0	$-\frac{\sqrt{5}}{42}$	0	0	0	0	0	$-\frac{\sqrt{2}}{7}$	0	0
		0	0	0	0	0	$\frac{\sqrt{3}}{42}$	0	0	0	0	0	$-\frac{2\sqrt{2}}{21}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{14}}{21}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$\frac{2\sqrt{2}}{21}$	0	0	0	0	0	$\frac{5\sqrt{6}}{42}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{2}}{6}$	0	0
		0	0	0	0	0	$-\frac{2\sqrt{2}}{21}$	0	0	0	0	0	$-\frac{\sqrt{3}}{42}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{21}}{14}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
780	$M_{4,2}^{(1,-1;a)}$	0	0	0	$\frac{\sqrt{35}}{147}$	0	0	0	0	0	$\frac{\sqrt{105}}{49}$	0	0	0
		0	0	0	0	$-\frac{\sqrt{210}}{294}$	0	0	0	0	0	$\frac{\sqrt{21}}{147}$	0	0
		0	0	0	0	0	$\frac{\sqrt{42}}{294}$	0	0	0	0	0	$-\frac{11\sqrt{7}}{147}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{3}}{21}$
		0	0	$-\frac{2\sqrt{7}}{49}$	0	0	0	0	0	$-\frac{10\sqrt{21}}{147}$	0	0	0	0
		0	0	0	$\frac{2\sqrt{35}}{147}$	0	0	0	0	0	$-\frac{\sqrt{105}}{147}$	0	0	0
		0	0	0	0	$\frac{2\sqrt{35}}{147}$	0	0	0	0	0	$\frac{17\sqrt{14}}{294}$	0	0
		0	0	0	0	0	$-\frac{2\sqrt{7}}{49}$	0	0	0	0	0	$\frac{3\sqrt{42}}{98}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{3}}{7}$
		0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 9

No.	multipole	matrix														
781	$M_{4,1}^{(1,-1;a)}$	0	0	$-\frac{\sqrt{70}}{294}$	0	0	0	0	0	0	$-\frac{2\sqrt{210}}{147}$	0	0	0	0	
		0	0	0	$\frac{\sqrt{210}}{294}$	0	0	0	0	0	0	$\frac{\sqrt{70}}{147}$	0	0	0	0
		0	0	0	0	$-\frac{\sqrt{105}}{294}$	0	0	0	0	0	0	$\frac{4\sqrt{42}}{147}$	0	0	0
		0	0	0	0	0	$\frac{\sqrt{7}}{294}$	0	0	0	0	0	0	$-\frac{\sqrt{42}}{49}$	0	0
		0	$\frac{4\sqrt{7}}{147}$	0	0	0	0	0	0	$\frac{5\sqrt{70}}{147}$	0	0	0	0	0	0
		0	0	$-\frac{2\sqrt{70}}{147}$	0	0	0	0	0	0	$-\frac{\sqrt{210}}{147}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{105}}{42}$	0	0	0	0
		0	0	0	0	$\frac{2\sqrt{70}}{147}$	0	0	0	0	0	0	$-\frac{\sqrt{7}}{294}$	0	0	0
		0	0	0	0	0	$-\frac{4\sqrt{7}}{147}$	0	0	0	0	0	0	$\frac{13\sqrt{42}}{294}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{30}}{42}$	0
782	$M_{4,0}^{(1,-1;a)}$	0	$\frac{\sqrt{7}}{147}$	0	0	0	0	0	0	$\frac{\sqrt{70}}{49}$	0	0	0	0	0	
		0	0	$-\frac{\sqrt{42}}{147}$	0	0	0	0	0	0	$-\frac{5\sqrt{14}}{147}$	0	0	0	0	0
		0	0	0	$\frac{\sqrt{42}}{147}$	0	0	0	0	0	0	$-\frac{5\sqrt{14}}{147}$	0	0	0	0
		0	0	0	0	$-\frac{\sqrt{7}}{147}$	0	0	0	0	0	0	$\frac{\sqrt{70}}{49}$	0	0	0
		$-\frac{2\sqrt{7}}{147}$	0	0	0	0	0	0	$-\frac{5\sqrt{42}}{147}$	0	0	0	0	0	0	0
		0	$\frac{2\sqrt{7}}{49}$	0	0	0	0	0	0	$\frac{4\sqrt{70}}{147}$	0	0	0	0	0	0
		0	0	$-\frac{4\sqrt{7}}{147}$	0	0	0	0	0	0	$\frac{5\sqrt{21}}{147}$	0	0	0	0	0
		0	0	0	$-\frac{4\sqrt{7}}{147}$	0	0	0	0	0	0	$-\frac{5\sqrt{21}}{147}$	0	0	0	0
		0	0	0	0	$\frac{2\sqrt{7}}{49}$	0	0	0	0	0	0	$-\frac{4\sqrt{70}}{147}$	0	0	0
		0	0	0	0	0	$-\frac{2\sqrt{7}}{147}$	0	0	0	0	0	0	$\frac{5\sqrt{42}}{147}$	0	0

continued ...

Table 9

No.	multipole	matrix													
783	$M_{4,-1}^{(1,-1;a)}$	$-\frac{\sqrt{7}}{294}$	0	0	0	0	0	0	$-\frac{\sqrt{42}}{49}$	0	0	0	0	0	0
		0	$\frac{\sqrt{105}}{294}$	0	0	0	0	0	0	$\frac{4\sqrt{42}}{147}$	0	0	0	0	0
		0	0	$-\frac{\sqrt{210}}{294}$	0	0	0	0	0	0	$\frac{\sqrt{70}}{147}$	0	0	0	0
		0	0	0	$\frac{\sqrt{70}}{294}$	0	0	0	0	0	0	$-\frac{2\sqrt{210}}{147}$	0	0	0
		0	0	0	0	0	0	$\frac{\sqrt{30}}{42}$	0	0	0	0	0	0	0
		$-\frac{4\sqrt{7}}{147}$	0	0	0	0	0	0	$-\frac{13\sqrt{42}}{294}$	0	0	0	0	0	0
		0	$\frac{2\sqrt{70}}{147}$	0	0	0	0	0	0	$\frac{\sqrt{7}}{294}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$\frac{\sqrt{105}}{42}$	0	0	0	0
		0	0	0	$-\frac{2\sqrt{70}}{147}$	0	0	0	0	0	0	$\frac{\sqrt{210}}{147}$	0	0	0
		0	0	0	0	$\frac{4\sqrt{7}}{147}$	0	0	0	0	0	0	$-\frac{5\sqrt{70}}{147}$	0	0
784	$M_{4,-2}^{(1,-1;a)}$	0	0	0	0	0	0	$\frac{\sqrt{3}}{21}$	0	0	0	0	0	0	
		$-\frac{\sqrt{42}}{294}$	0	0	0	0	0	0	$-\frac{11\sqrt{7}}{147}$	0	0	0	0	0	
		0	$\frac{\sqrt{210}}{294}$	0	0	0	0	0	0	$\frac{\sqrt{21}}{147}$	0	0	0	0	
		0	0	$-\frac{\sqrt{35}}{147}$	0	0	0	0	0	0	$\frac{\sqrt{105}}{49}$	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	$\frac{\sqrt{3}}{7}$	0	0	0	0	0	0	
		$-\frac{2\sqrt{7}}{49}$	0	0	0	0	0	0	$-\frac{3\sqrt{42}}{98}$	0	0	0	0	0	
		0	$\frac{2\sqrt{35}}{147}$	0	0	0	0	0	0	$-\frac{17\sqrt{14}}{294}$	0	0	0	0	
		0	0	$\frac{2\sqrt{35}}{147}$	0	0	0	0	0	0	$\frac{\sqrt{105}}{147}$	0	0	0	
		0	0	0	$-\frac{2\sqrt{7}}{49}$	0	0	0	0	0	0	$\frac{10\sqrt{21}}{147}$	0	0	

continued ...

Table 9

No.	multipole	matrix																								
785	$M_{4,-3}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	$\frac{\sqrt{14}}{21}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		$-\frac{\sqrt{3}}{42}$	0	0	0	0	0	0	$-\frac{2\sqrt{2}}{21}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	$\frac{\sqrt{5}}{42}$	0	0	0	0	0	0	$-\frac{\sqrt{2}}{7}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{\sqrt{21}}{14}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		$-\frac{2\sqrt{2}}{21}$	0	0	0	0	0	0	$\frac{\sqrt{3}}{42}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$-\frac{\sqrt{2}}{6}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$\frac{2\sqrt{2}}{21}$	0	0	0	0	0	0	0	$-\frac{5\sqrt{6}}{42}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
786	$M_{4,-4}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	$\frac{2\sqrt{7}}{21}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		$-\frac{\sqrt{2}}{21}$	0	0	0	0	0	0	$\frac{2\sqrt{3}}{21}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	$\frac{\sqrt{42}}{21}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		$-\frac{2\sqrt{2}}{21}$	0	0	0	0	0	0	$\frac{4\sqrt{3}}{21}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	$-\frac{2\sqrt{2}}{21}$	0	0	0	0	0	0	$\frac{2\sqrt{5}}{21}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

continued ...

Table 9

No.	multipole	matrix
787	$M_{6,6}^{(1,-1;a)}$	0 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 $\frac{10\sqrt{3}}{33}$
		0 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 0
788	$M_{6,5}^{(1,-1;a)}$	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 $-\frac{5\sqrt{7}}{33}$ 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 $\frac{5\sqrt{5}}{33}$
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

continued ...

Table 9

No.	multipole	matrix
789	$M_{6,4}^{(1,-1;a)}$	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0 0 0 $\frac{5\sqrt{462}}{363}$ 0 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 $-\frac{5\sqrt{770}}{363}$ 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 $\frac{10\sqrt{55}}{363}$
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
790	$M_{6,3}^{(1,-1;a)}$	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0 0 $-\frac{5\sqrt{231}}{363}$ 0 0 0
		0 0 0 0 0 0 0 0 0 0 0 0 $\frac{5\sqrt{77}}{121}$ 0 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 $-\frac{5\sqrt{462}}{363}$ 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 $\frac{5\sqrt{66}}{363}$
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

continued ...

Table 9

No.	multipole	matrix													
791	$M_{6,2}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$\frac{10\sqrt{231}}{1089}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	$-\frac{10\sqrt{1155}}{1089}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$\frac{10\sqrt{154}}{363}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	$-\frac{10\sqrt{462}}{1089}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{10\sqrt{33}}{1089}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
792	$M_{6,1}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$-\frac{5\sqrt{154}}{726}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	$\frac{25\sqrt{462}}{2178}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$-\frac{25\sqrt{231}}{1089}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$\frac{5\sqrt{385}}{363}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	$-\frac{5\sqrt{2310}}{2178}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{5\sqrt{66}}{2178}$	0

continued ...

Table 9

No.	multipole	matrix														
793	$M_{6,0}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	$\frac{5\sqrt{11}}{363}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$-\frac{5\sqrt{165}}{363}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$\frac{25\sqrt{22}}{363}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$-\frac{25\sqrt{22}}{363}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	$\frac{5\sqrt{165}}{363}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{5\sqrt{11}}{363}$	0	0
794	$M_{6,-1}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	$-\frac{5\sqrt{66}}{2178}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$\frac{5\sqrt{2310}}{2178}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$-\frac{5\sqrt{385}}{363}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$\frac{25\sqrt{231}}{1089}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	$-\frac{25\sqrt{462}}{2178}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{5\sqrt{154}}{726}$	0	0

continued ...

Table 9

No.	multipole	matrix															
795	$M_{6,-2}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	$-\frac{10\sqrt{33}}{1089}$	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	$\frac{10\sqrt{462}}{1089}$	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$-\frac{10\sqrt{154}}{363}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$\frac{10\sqrt{1155}}{1089}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$-\frac{10\sqrt{231}}{1089}$	0	0	0	0	0
796	$M_{6,-3}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	$-\frac{5\sqrt{66}}{363}$	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	$\frac{5\sqrt{462}}{363}$	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$-\frac{5\sqrt{77}}{121}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$\frac{5\sqrt{231}}{363}$	0	0	0	0	0	0

continued ...

Table 9

No.	multipole	matrix																						
797	$M_{6,-4}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
798	$M_{6,-5}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

continued ...

Table 9

No.	multipole	matrix												
799	$M_{6,-6}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{10\sqrt{3}}{33}$	0	0	0	0	0	0
800	$M_{2,2}^{(1,0;a)}$	0	0	0	$-\frac{4\sqrt{2}}{35}$	0	0	0	0	0	$\frac{2\sqrt{6}}{35}$	0	0	0
		0	0	0	0	$-\frac{16\sqrt{3}}{105}$	0	0	0	0	0	$\frac{2\sqrt{30}}{35}$	0	0
		0	0	0	0	0	$-\frac{8\sqrt{15}}{105}$	0	0	0	0	0	$\frac{6\sqrt{10}}{35}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{210}}{35}$
		0	0	$\frac{6\sqrt{10}}{35}$	0	0	0	0	0	$\frac{2\sqrt{30}}{105}$	0	0	0	0
		0	0	0	$\frac{18\sqrt{2}}{35}$	0	0	0	0	0	$\frac{8\sqrt{6}}{105}$	0	0	0
		0	0	0	0	$\frac{18\sqrt{2}}{35}$	0	0	0	0	0	$\frac{4\sqrt{5}}{35}$	0	0
		0	0	0	0	0	$\frac{6\sqrt{10}}{35}$	0	0	0	0	0	$\frac{8\sqrt{15}}{105}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{210}}{105}$
		0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 9

No.	multipole	matrix														
801	$M_{2,1}^{(1,0;a)}$	0	0	$\frac{6\sqrt{2}}{35}$	0	0	0	0	0	0	$-\frac{4\sqrt{6}}{35}$	0	0	0	0	
		0	0	0	$\frac{2\sqrt{6}}{21}$	0	0	0	0	0	0	$-\frac{12\sqrt{2}}{35}$	0	0	0	0
		0	0	0	0	$\frac{4\sqrt{3}}{105}$	0	0	0	0	0	0	$-\frac{4\sqrt{30}}{35}$	0	0	0
		0	0	0	0	0	$-\frac{4\sqrt{5}}{35}$	0	0	0	0	0	0	0	$-\frac{4\sqrt{30}}{35}$	0
		0	$-\frac{12\sqrt{5}}{35}$	0	0	0	0	0	0	$-\frac{\sqrt{2}}{7}$	0	0	0	0	0	0
		0	0	$-\frac{12\sqrt{2}}{35}$	0	0	0	0	0	0	$-\frac{11\sqrt{6}}{105}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{3}}{15}$	0	0	0	0
		0	0	0	0	$\frac{12\sqrt{2}}{35}$	0	0	0	0	0	0	0	$-\frac{2\sqrt{5}}{35}$	0	0
		0	0	0	0	0	$\frac{12\sqrt{5}}{35}$	0	0	0	0	0	0	0	$\frac{\sqrt{30}}{105}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{42}}{21}$
802	$M_{2,0}^{(1,0;a)}$	0	$-\frac{4\sqrt{6}}{35}$	0	0	0	0	0	0	$\frac{4\sqrt{15}}{35}$	0	0	0	0	0	
		0	0	$-\frac{4}{35}$	0	0	0	0	0	0	$\frac{12\sqrt{3}}{35}$	0	0	0	0	0
		0	0	0	$\frac{4}{35}$	0	0	0	0	0	0	$\frac{12\sqrt{3}}{35}$	0	0	0	0
		0	0	0	0	$\frac{4\sqrt{6}}{35}$	0	0	0	0	0	0	$\frac{4\sqrt{15}}{35}$	0	0	0
		$\frac{2\sqrt{6}}{7}$	0	0	0	0	0	0	$\frac{2}{7}$	0	0	0	0	0	0	0
		0	$-\frac{2\sqrt{6}}{35}$	0	0	0	0	0	0	$\frac{2\sqrt{15}}{35}$	0	0	0	0	0	0
		0	0	$-\frac{8\sqrt{6}}{35}$	0	0	0	0	0	0	$\frac{2\sqrt{2}}{35}$	0	0	0	0	0
		0	0	0	$-\frac{8\sqrt{6}}{35}$	0	0	0	0	0	0	$-\frac{2\sqrt{2}}{35}$	0	0	0	0
		0	0	0	0	$-\frac{2\sqrt{6}}{35}$	0	0	0	0	0	0	0	$-\frac{2\sqrt{15}}{35}$	0	0
		0	0	0	0	0	$\frac{2\sqrt{6}}{7}$	0	0	0	0	0	0	0	$-\frac{2}{7}$	0

continued ...

Table 9

No.	multipole	matrix														
803	$M_{2,-1}^{(1,0;a)}$	$\frac{4\sqrt{5}}{35}$	0	0	0	0	0	0	$-\frac{4\sqrt{30}}{35}$	0	0	0	0	0	0	
		0	$-\frac{4\sqrt{3}}{105}$	0	0	0	0	0	0	$-\frac{4\sqrt{30}}{35}$	0	0	0	0	0	
		0	0	$-\frac{2\sqrt{6}}{21}$	0	0	0	0	0	0	$-\frac{12\sqrt{2}}{35}$	0	0	0	0	
		0	0	0	$-\frac{6\sqrt{2}}{35}$	0	0	0	0	0	0	$-\frac{4\sqrt{6}}{35}$	0	0	0	
		0	0	0	0	0	0	$-\frac{\sqrt{42}}{21}$	0	0	0	0	0	0	0	
		$\frac{12\sqrt{5}}{35}$	0	0	0	0	0	0	$-\frac{\sqrt{30}}{105}$	0	0	0	0	0	0	
		0	$\frac{12\sqrt{2}}{35}$	0	0	0	0	0	0	$\frac{2\sqrt{5}}{35}$	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{3}}{15}$	0	0	0	0	
		0	0	0	$-\frac{12\sqrt{2}}{35}$	0	0	0	0	0	0	0	$\frac{11\sqrt{6}}{105}$	0	0	0
		0	0	0	0	$-\frac{12\sqrt{5}}{35}$	0	0	0	0	0	0	0	$\frac{\sqrt{2}}{7}$	0	0
804	$M_{2,-2}^{(1,0;a)}$	0	0	0	0	0	0	$\frac{2\sqrt{210}}{35}$	0	0	0	0	0	0		
		$\frac{8\sqrt{15}}{105}$	0	0	0	0	0	0	$\frac{6\sqrt{10}}{35}$	0	0	0	0	0		
		0	$\frac{16\sqrt{3}}{105}$	0	0	0	0	0	0	$\frac{2\sqrt{30}}{35}$	0	0	0	0		
		0	0	$\frac{4\sqrt{2}}{35}$	0	0	0	0	0	0	$\frac{2\sqrt{6}}{35}$	0	0	0		
		0	0	0	0	0	0	0	0	0	0	0	0	0		
		0	0	0	0	0	0	$-\frac{2\sqrt{210}}{105}$	0	0	0	0	0	0		
		$\frac{6\sqrt{10}}{35}$	0	0	0	0	0	0	$-\frac{8\sqrt{15}}{105}$	0	0	0	0	0		
		0	$\frac{18\sqrt{2}}{35}$	0	0	0	0	0	0	$-\frac{4\sqrt{5}}{35}$	0	0	0	0		
		0	0	$\frac{18\sqrt{2}}{35}$	0	0	0	0	0	0	$-\frac{8\sqrt{6}}{105}$	0	0	0		
		0	0	0	$\frac{6\sqrt{10}}{35}$	0	0	0	0	0	0	$-\frac{2\sqrt{30}}{105}$	0	0	0	

continued ...

Table 9

No.	multipole	matrix														
805	$M_{4,4}^{(1,0;a)}$	0	0	0	0	0	$\frac{2\sqrt{70}}{525}$	0	0	0	0	0	0	$-\frac{12\sqrt{105}}{875}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{12\sqrt{5}}{125}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{4\sqrt{70}}{175}$	0	0	0	0	0	0	$-\frac{4\sqrt{7}}{525}$	0	0	0
		0	0	0	0	0	$-\frac{4\sqrt{70}}{175}$	0	0	0	0	0	0	$-\frac{8\sqrt{105}}{2625}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{30}}{375}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
806	$M_{4,3}^{(1,0;a)}$	0	0	0	0	$-\frac{\sqrt{7}}{105}$	0	0	0	0	0	0	$\frac{18\sqrt{70}}{875}$	0	0	
		0	0	0	0	0	$\frac{\sqrt{105}}{525}$	0	0	0	0	0	0	$\frac{12\sqrt{70}}{875}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{6\sqrt{10}}{125}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$\frac{4\sqrt{70}}{175}$	0	0	0	0	0	$\frac{\sqrt{210}}{525}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{70}}{375}$	0	0	0	0
		0	0	0	0	0	$-\frac{4\sqrt{70}}{175}$	0	0	0	0	0	0	$-\frac{\sqrt{105}}{2625}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{15}}{125}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 9

No.	multipole	matrix												
807	$M_{4,2}^{(1,0;a)}$	0	0	0	$\frac{2}{105}$	0	0	0	0	0	$-\frac{18\sqrt{3}}{175}$	0	0	0
		0	0	0	0	$-\frac{\sqrt{6}}{105}$	0	0	0	0	0	$-\frac{6\sqrt{15}}{875}$	0	0
		0	0	0	0	0	$\frac{\sqrt{30}}{525}$	0	0	0	0	0	$\frac{66\sqrt{5}}{875}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{6\sqrt{105}}{875}$
		0	0	$-\frac{12\sqrt{5}}{175}$	0	0	0	0	0	$-\frac{4\sqrt{15}}{525}$	0	0	0	0
		0	0	0	$\frac{4}{35}$	0	0	0	0	0	$-\frac{2\sqrt{3}}{525}$	0	0	0
		0	0	0	0	$\frac{4}{35}$	0	0	0	0	0	$\frac{17\sqrt{10}}{2625}$	0	0
		0	0	0	0	0	$-\frac{12\sqrt{5}}{175}$	0	0	0	0	0	$\frac{3\sqrt{30}}{875}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{105}}{875}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
808	$M_{4,1}^{(1,0;a)}$	0	0	$-\frac{\sqrt{2}}{105}$	0	0	0	0	0	$\frac{12\sqrt{6}}{175}$	0	0	0	0
		0	0	0	$\frac{\sqrt{6}}{105}$	0	0	0	0	0	$-\frac{6\sqrt{2}}{175}$	0	0	0
		0	0	0	0	$-\frac{\sqrt{3}}{105}$	0	0	0	0	0	$-\frac{24\sqrt{30}}{875}$	0	0
		0	0	0	0	0	$\frac{\sqrt{5}}{525}$	0	0	0	0	0	$\frac{18\sqrt{30}}{875}$	0
		0	$\frac{8\sqrt{5}}{175}$	0	0	0	0	0	0	$\frac{2\sqrt{2}}{105}$	0	0	0	0
		0	0	$-\frac{4\sqrt{2}}{35}$	0	0	0	0	0	0	$-\frac{2\sqrt{6}}{525}$	0	0	0
		0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{3}}{75}$	0	0	0
		0	0	0	0	$\frac{4\sqrt{2}}{35}$	0	0	0	0	0	$-\frac{\sqrt{5}}{2625}$	0	0
		0	0	0	0	0	$-\frac{8\sqrt{5}}{175}$	0	0	0	0	0	$\frac{13\sqrt{30}}{2625}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{42}}{525}$

continued ...

Table 9

No.	multipole	matrix														
809	$M_{4,0}^{(1,0;a)}$	0	$\frac{2\sqrt{5}}{525}$	0	0	0	0	0	0	$-\frac{18\sqrt{2}}{175}$	0	0	0	0	0	
		0	0	$-\frac{2\sqrt{30}}{525}$	0	0	0	0	0	0	$\frac{6\sqrt{10}}{175}$	0	0	0	0	0
		0	0	0	$\frac{2\sqrt{30}}{525}$	0	0	0	0	0	0	$\frac{6\sqrt{10}}{175}$	0	0	0	0
		0	0	0	0	$-\frac{2\sqrt{5}}{525}$	0	0	0	0	0	0	$-\frac{18\sqrt{2}}{175}$	0	0	0
		$-\frac{4\sqrt{5}}{175}$	0	0	0	0	0	0	$-\frac{2\sqrt{30}}{525}$	0	0	0	0	0	0	0
		0	$\frac{12\sqrt{5}}{175}$	0	0	0	0	0	0	$\frac{8\sqrt{2}}{525}$	0	0	0	0	0	0
		0	0	$-\frac{8\sqrt{5}}{175}$	0	0	0	0	0	0	$\frac{2\sqrt{15}}{525}$	0	0	0	0	0
		0	0	0	$-\frac{8\sqrt{5}}{175}$	0	0	0	0	0	0	$-\frac{2\sqrt{15}}{525}$	0	0	0	0
		0	0	0	0	$\frac{12\sqrt{5}}{175}$	0	0	0	0	0	0	$-\frac{8\sqrt{2}}{525}$	0	0	0
		0	0	0	0	0	$-\frac{4\sqrt{5}}{175}$	0	0	0	0	0	0	0	$\frac{2\sqrt{30}}{525}$	0
810	$M_{4,-1}^{(1,0;a)}$	$-\frac{\sqrt{5}}{525}$	0	0	0	0	0	0	$\frac{18\sqrt{30}}{875}$	0	0	0	0	0	0	
		0	$\frac{\sqrt{3}}{105}$	0	0	0	0	0	0	$-\frac{24\sqrt{30}}{875}$	0	0	0	0	0	
		0	0	$-\frac{\sqrt{6}}{105}$	0	0	0	0	0	0	$-\frac{6\sqrt{2}}{175}$	0	0	0	0	
		0	0	0	$\frac{\sqrt{2}}{105}$	0	0	0	0	0	0	$\frac{12\sqrt{6}}{175}$	0	0	0	
		0	0	0	0	0	0	$\frac{\sqrt{42}}{525}$	0	0	0	0	0	0	0	
		$-\frac{8\sqrt{5}}{175}$	0	0	0	0	0	0	$-\frac{13\sqrt{30}}{2625}$	0	0	0	0	0	0	
		0	$\frac{4\sqrt{2}}{35}$	0	0	0	0	0	0	$\frac{\sqrt{5}}{2625}$	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	$\frac{\sqrt{3}}{75}$	0	0	0	0	
		0	0	0	$-\frac{4\sqrt{2}}{35}$	0	0	0	0	0	0	$\frac{2\sqrt{6}}{525}$	0	0	0	
		0	0	0	0	$\frac{8\sqrt{5}}{175}$	0	0	0	0	0	0	$-\frac{2\sqrt{2}}{105}$	0	0	

continued ...

Table 9

No.	multipole	matrix													
811	$M_{4,-2}^{(1,0;a)}$	0	0	0	0	0	0	$-\frac{6\sqrt{105}}{875}$	0	0	0	0	0	0	0
		$-\frac{\sqrt{30}}{525}$	0	0	0	0	0	0	$\frac{66\sqrt{5}}{875}$	0	0	0	0	0	0
		0	$\frac{\sqrt{6}}{105}$	0	0	0	0	0	0	$-\frac{6\sqrt{15}}{875}$	0	0	0	0	0
		0	0	$-\frac{2}{105}$	0	0	0	0	0	0	$-\frac{18\sqrt{3}}{175}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{2\sqrt{105}}{875}$	0	0	0	0	0	0	0
		$-\frac{12\sqrt{5}}{175}$	0	0	0	0	0	0	$-\frac{3\sqrt{30}}{875}$	0	0	0	0	0	0
		0	$\frac{4}{35}$	0	0	0	0	0	0	$-\frac{17\sqrt{10}}{2625}$	0	0	0	0	0
		0	0	$\frac{4}{35}$	0	0	0	0	0	0	$\frac{2\sqrt{3}}{525}$	0	0	0	0
0	0	0	$-\frac{12\sqrt{5}}{175}$	0	0	0	0	0	0	0	$\frac{4\sqrt{15}}{525}$	0	0	0	
812	$M_{4,-3}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	$-\frac{6\sqrt{10}}{125}$	0	0	0	0	0	0	
		$-\frac{\sqrt{105}}{525}$	0	0	0	0	0	0	$\frac{12\sqrt{70}}{875}$	0	0	0	0	0	
		0	$\frac{\sqrt{7}}{105}$	0	0	0	0	0	0	$\frac{18\sqrt{70}}{875}$	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	$\frac{\sqrt{15}}{125}$	0	0	0	0	0	0	
		$-\frac{4\sqrt{70}}{175}$	0	0	0	0	0	0	$\frac{\sqrt{105}}{2625}$	0	0	0	0	0	
		0	0	0	0	0	0	0	0	$-\frac{\sqrt{70}}{375}$	0	0	0	0	
0	0	$\frac{4\sqrt{70}}{175}$	0	0	0	0	0	0	$-\frac{\sqrt{210}}{525}$	0	0	0	0		

continued ...

Table 9

No.	multipole	matrix																								
813	$M_{4,-4}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{12\sqrt{5}}{125}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		$-\frac{2\sqrt{70}}{525}$	0	0	0	0	0	0	$-\frac{12\sqrt{105}}{875}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{2\sqrt{30}}{375}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		$-\frac{4\sqrt{70}}{175}$	0	0	0	0	0	0	$\frac{8\sqrt{105}}{2625}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	$-\frac{4\sqrt{70}}{175}$	0	0	0	0	0	0	0	$\frac{4\sqrt{7}}{525}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
814	$M_{0,0}^{(1,1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		$-\frac{\sqrt{3}}{3}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	$-\frac{\sqrt{3}}{3}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	$-\frac{\sqrt{3}}{3}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	$-\frac{\sqrt{3}}{3}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	$-\frac{\sqrt{3}}{3}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	$-\frac{\sqrt{3}}{3}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

continued ...

Table 9

No.	multipole	matrix													
815	$M_{2,2}^{(1,1;a)}$	0	0	0	$\frac{16\sqrt{7}}{245}$	0	0	0	0	0	$-\frac{\sqrt{21}}{245}$	0	0	0	
		0	0	0	0	$\frac{32\sqrt{42}}{735}$	0	0	0	0	0	$-\frac{\sqrt{105}}{245}$	0	0	
		0	0	0	0	0	$\frac{16\sqrt{210}}{735}$	0	0	0	0	0	$-\frac{3\sqrt{35}}{245}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{15}}{35}$	
		0	0	$\frac{6\sqrt{35}}{245}$	0	0	0	0	0	$-\frac{8\sqrt{105}}{2205}$	0	0	0	0	
		0	0	0	$\frac{18\sqrt{7}}{245}$	0	0	0	0	0	$-\frac{32\sqrt{21}}{2205}$	0	0	0	0
		0	0	0	0	$\frac{18\sqrt{7}}{245}$	0	0	0	0	0	$-\frac{8\sqrt{70}}{735}$	0	0	0
		0	0	0	0	0	$\frac{6\sqrt{35}}{245}$	0	0	0	0	0	$-\frac{16\sqrt{210}}{2205}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{8\sqrt{15}}{315}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
816	$M_{2,1}^{(1,1;a)}$	0	0	$-\frac{24\sqrt{7}}{245}$	0	0	0	0	0	$\frac{2\sqrt{21}}{245}$	0	0	0	0	
		0	0	0	$-\frac{8\sqrt{21}}{147}$	0	0	0	0	0	$\frac{6\sqrt{7}}{245}$	0	0	0	
		0	0	0	0	$-\frac{8\sqrt{42}}{735}$	0	0	0	0	0	$\frac{2\sqrt{105}}{245}$	0	0	
		0	0	0	0	0	$\frac{8\sqrt{70}}{245}$	0	0	0	0	0	$\frac{2\sqrt{105}}{245}$	0	
		0	$-\frac{6\sqrt{70}}{245}$	0	0	0	0	0	0	$\frac{4\sqrt{7}}{147}$	0	0	0	0	
		0	0	$-\frac{12\sqrt{7}}{245}$	0	0	0	0	0	$\frac{44\sqrt{21}}{2205}$	0	0	0	0	
		0	0	0	0	0	0	0	0	0	$\frac{4\sqrt{42}}{315}$	0	0	0	0
		0	0	0	0	$\frac{12\sqrt{7}}{245}$	0	0	0	0	0	$\frac{4\sqrt{70}}{735}$	0	0	0
		0	0	0	0	0	$\frac{6\sqrt{70}}{245}$	0	0	0	0	0	$-\frac{4\sqrt{105}}{2205}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{4\sqrt{3}}{63}$	0

continued ...

Table 9

No.	multipole	matrix															
817	$M_{2,0}^{(1,1;a)}$	0	$\frac{16\sqrt{21}}{245}$	0	0	0	0	0	0	$-\frac{\sqrt{210}}{245}$	0	0	0	0	0		
		0	0	$\frac{8\sqrt{14}}{245}$	0	0	0	0	0	0	$-\frac{3\sqrt{42}}{245}$	0	0	0	0	0	
		0	0	0	$-\frac{8\sqrt{14}}{245}$	0	0	0	0	0	0	$-\frac{3\sqrt{42}}{245}$	0	0	0	0	
		0	0	0	0	$-\frac{16\sqrt{21}}{245}$	0	0	0	0	0	0	$-\frac{\sqrt{210}}{245}$	0	0	0	
		$\frac{2\sqrt{21}}{49}$	0	0	0	0	0	0	$-\frac{4\sqrt{14}}{147}$	0	0	0	0	0	0	0	
		0	$-\frac{2\sqrt{21}}{245}$	0	0	0	0	0	0	$-\frac{4\sqrt{210}}{735}$	0	0	0	0	0	0	0
		0	0	$-\frac{8\sqrt{21}}{245}$	0	0	0	0	0	0	$-\frac{8\sqrt{7}}{735}$	0	0	0	0	0	0
		0	0	0	$-\frac{8\sqrt{21}}{245}$	0	0	0	0	0	0	$\frac{8\sqrt{7}}{735}$	0	0	0	0	0
		0	0	0	0	$-\frac{2\sqrt{21}}{245}$	0	0	0	0	0	0	$\frac{4\sqrt{210}}{735}$	0	0	0	0
		0	0	0	0	0	$\frac{2\sqrt{21}}{49}$	0	0	0	0	0	0	0	$\frac{4\sqrt{14}}{147}$	0	0
818	$M_{2,-1}^{(1,1;a)}$	$-\frac{8\sqrt{70}}{245}$	0	0	0	0	0	0	$\frac{2\sqrt{105}}{245}$	0	0	0	0	0	0	0	
		0	$\frac{8\sqrt{42}}{735}$	0	0	0	0	0	0	$\frac{2\sqrt{105}}{245}$	0	0	0	0	0	0	0
		0	0	$\frac{8\sqrt{21}}{147}$	0	0	0	0	0	0	$\frac{6\sqrt{7}}{245}$	0	0	0	0	0	0
		0	0	0	$\frac{24\sqrt{7}}{245}$	0	0	0	0	0	0	$\frac{2\sqrt{21}}{245}$	0	0	0	0	0
		0	0	0	0	0	0	$\frac{4\sqrt{3}}{63}$	0	0	0	0	0	0	0	0	0
		$\frac{6\sqrt{70}}{245}$	0	0	0	0	0	0	$\frac{4\sqrt{105}}{2205}$	0	0	0	0	0	0	0	0
		0	$\frac{12\sqrt{7}}{245}$	0	0	0	0	0	0	$-\frac{4\sqrt{70}}{735}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$-\frac{4\sqrt{42}}{315}$	0	0	0	0	0	0
		0	0	0	$-\frac{12\sqrt{7}}{245}$	0	0	0	0	0	0	0	$-\frac{44\sqrt{21}}{2205}$	0	0	0	0
		0	0	0	0	$-\frac{6\sqrt{70}}{245}$	0	0	0	0	0	0	0	$-\frac{4\sqrt{7}}{147}$	0	0	0

continued ...

Table 9

No.	multipole	matrix																	
819	$M_{2,-2}^{(1,1;a)}$	0	0	0	0	0	0	$-\frac{\sqrt{15}}{35}$	0	0	0	0	0	0	0	0	0	0	0
		$-\frac{16\sqrt{210}}{735}$	0	0	0	0	0	0	$-\frac{3\sqrt{35}}{245}$	0	0	0	0	0	0	0	0	0	0
		0	$-\frac{32\sqrt{42}}{735}$	0	0	0	0	0	0	$-\frac{\sqrt{105}}{245}$	0	0	0	0	0	0	0	0	0
		0	0	$-\frac{16\sqrt{7}}{245}$	0	0	0	0	0	0	$-\frac{\sqrt{21}}{245}$	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{8\sqrt{15}}{315}$	0	0	0	0	0	0	0	0	0	0	0
		$\frac{6\sqrt{35}}{245}$	0	0	0	0	0	0	$\frac{16\sqrt{210}}{2205}$	0	0	0	0	0	0	0	0	0	0
		0	$\frac{18\sqrt{7}}{245}$	0	0	0	0	0	0	$\frac{8\sqrt{70}}{735}$	0	0	0	0	0	0	0	0	0
		0	0	$\frac{18\sqrt{7}}{245}$	0	0	0	0	0	0	$\frac{32\sqrt{21}}{2205}$	0	0	0	0	0	0	0	0
		0	0	0	$\frac{6\sqrt{35}}{245}$	0	0	0	0	0	0	0	$\frac{8\sqrt{105}}{2205}$	0	0	0	0	0	0
820	$M_{4,4}^{(1,1;a)}$	0	0	0	0	0	$-\frac{4\sqrt{770}}{231}$	0	0	0	0	0	$\frac{2\sqrt{1155}}{1155}$	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{55}}{165}$	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	$-\frac{\sqrt{770}}{231}$	0	0	0	0	0	$\frac{8\sqrt{77}}{2541}$	0	0	0	0	0	0	0
		0	0	0	0	0	$-\frac{\sqrt{770}}{231}$	0	0	0	0	0	$\frac{16\sqrt{1155}}{12705}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{4\sqrt{330}}{1815}$	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 9

No.	multipole	matrix												
821	$M_{4,3}^{(1,1;a)}$	0	0	0	0	$\frac{10\sqrt{77}}{231}$	0	0	0	0	0	$-\frac{\sqrt{770}}{385}$	0	0
		0	0	0	0	0	$-\frac{2\sqrt{1155}}{231}$	0	0	0	0	0	$-\frac{2\sqrt{770}}{1155}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{110}}{165}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$\frac{\sqrt{770}}{231}$	0	0	0	0	0	$-\frac{2\sqrt{2310}}{2541}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{770}}{1815}$	0	0
		0	0	0	0	0	$-\frac{\sqrt{770}}{231}$	0	0	0	0	0	$\frac{2\sqrt{1155}}{12705}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{165}}{605}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
822	$M_{4,2}^{(1,1;a)}$	0	0	0	$-\frac{20\sqrt{11}}{231}$	0	0	0	0	0	$\frac{\sqrt{33}}{77}$	0	0	0
		0	0	0	0	$\frac{10\sqrt{66}}{231}$	0	0	0	0	0	$\frac{\sqrt{165}}{1155}$	0	0
		0	0	0	0	0	$-\frac{2\sqrt{330}}{231}$	0	0	0	0	0	$-\frac{\sqrt{55}}{105}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{1155}}{1155}$
		0	0	$-\frac{\sqrt{55}}{77}$	0	0	0	0	0	$\frac{8\sqrt{165}}{2541}$	0	0	0	0
		0	0	0	$\frac{5\sqrt{11}}{231}$	0	0	0	0	0	$\frac{4\sqrt{33}}{2541}$	0	0	0
		0	0	0	0	$\frac{5\sqrt{11}}{231}$	0	0	0	0	0	$-\frac{34\sqrt{110}}{12705}$	0	0
		0	0	0	0	0	$-\frac{\sqrt{55}}{77}$	0	0	0	0	0	$-\frac{6\sqrt{330}}{4235}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{4\sqrt{1155}}{4235}$
		0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 9

No.	multipole	matrix												
823	$M_{4,1}^{(1,1;a)}$	0	0	$\frac{10\sqrt{22}}{231}$	0	0	0	0	0	$-\frac{2\sqrt{66}}{231}$	0	0	0	0
		0	0	0	$-\frac{10\sqrt{66}}{231}$	0	0	0	0	0	$\frac{\sqrt{22}}{231}$	0	0	0
		0	0	0	0	$\frac{10\sqrt{33}}{231}$	0	0	0	0	0	$\frac{4\sqrt{330}}{1155}$	0	0
		0	0	0	0	0	$-\frac{2\sqrt{55}}{231}$	0	0	0	0	0	$-\frac{\sqrt{330}}{385}$	0
		0	$\frac{2\sqrt{55}}{231}$	0	0	0	0	0	$-\frac{20\sqrt{22}}{2541}$	0	0	0	0	0
		0	0	$-\frac{5\sqrt{22}}{231}$	0	0	0	0	0	$\frac{4\sqrt{66}}{2541}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{33}}{363}$	0	0	0
		0	0	0	0	$\frac{5\sqrt{22}}{231}$	0	0	0	0	0	$\frac{2\sqrt{55}}{12705}$	0	0
		0	0	0	0	0	$-\frac{2\sqrt{55}}{231}$	0	0	0	0	0	$-\frac{26\sqrt{330}}{12705}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{462}}{2541}$
824	$M_{4,0}^{(1,1;a)}$	0	$-\frac{4\sqrt{55}}{231}$	0	0	0	0	0	$\frac{\sqrt{22}}{77}$	0	0	0	0	
		0	0	$\frac{4\sqrt{330}}{231}$	0	0	0	0	0	$-\frac{\sqrt{110}}{231}$	0	0	0	
		0	0	0	$-\frac{4\sqrt{330}}{231}$	0	0	0	0	0	$-\frac{\sqrt{110}}{231}$	0	0	
		0	0	0	0	$\frac{4\sqrt{55}}{231}$	0	0	0	0	0	$\frac{\sqrt{22}}{77}$	0	
		$-\frac{\sqrt{55}}{231}$	0	0	0	0	0	$\frac{4\sqrt{330}}{2541}$	0	0	0	0	0	
		0	$\frac{\sqrt{55}}{77}$	0	0	0	0	0	$-\frac{16\sqrt{22}}{2541}$	0	0	0	0	
		0	0	$-\frac{2\sqrt{55}}{231}$	0	0	0	0	0	$-\frac{4\sqrt{165}}{2541}$	0	0	0	
		0	0	0	$-\frac{2\sqrt{55}}{231}$	0	0	0	0	0	$\frac{4\sqrt{165}}{2541}$	0	0	
		0	0	0	0	$\frac{\sqrt{55}}{77}$	0	0	0	0	0	$\frac{16\sqrt{22}}{2541}$	0	
		0	0	0	0	0	$-\frac{\sqrt{55}}{231}$	0	0	0	0	0	$-\frac{4\sqrt{330}}{2541}$	

continued ...

Table 9

No.	multipole	matrix													
825	$M_{4,-1}^{(1,1;a)}$	$\frac{2\sqrt{55}}{231}$	0	0	0	0	0	0	$-\frac{\sqrt{330}}{385}$	0	0	0	0	0	0
		0	$-\frac{10\sqrt{33}}{231}$	0	0	0	0	0	0	$\frac{4\sqrt{330}}{1155}$	0	0	0	0	0
		0	0	$\frac{10\sqrt{66}}{231}$	0	0	0	0	0	0	$\frac{\sqrt{22}}{231}$	0	0	0	0
		0	0	0	$-\frac{10\sqrt{22}}{231}$	0	0	0	0	0	0	$-\frac{2\sqrt{66}}{231}$	0	0	0
		0	0	0	0	0	0	$-\frac{2\sqrt{462}}{2541}$	0	0	0	0	0	0	0
		$-\frac{2\sqrt{55}}{231}$	0	0	0	0	0	0	$\frac{26\sqrt{330}}{12705}$	0	0	0	0	0	0
		0	$\frac{5\sqrt{22}}{231}$	0	0	0	0	0	0	$-\frac{2\sqrt{55}}{12705}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{33}}{363}$	0	0	0	0
		0	0	0	$-\frac{5\sqrt{22}}{231}$	0	0	0	0	0	0	$-\frac{4\sqrt{66}}{2541}$	0	0	0
		0	0	0	0	$\frac{2\sqrt{55}}{231}$	0	0	0	0	0	0	$\frac{20\sqrt{22}}{2541}$	0	0
826	$M_{4,-2}^{(1,1;a)}$	0	0	0	0	0	0	$\frac{\sqrt{1155}}{1155}$	0	0	0	0	0	0	
		$\frac{2\sqrt{330}}{231}$	0	0	0	0	0	0	$-\frac{\sqrt{55}}{105}$	0	0	0	0	0	
		0	$-\frac{10\sqrt{66}}{231}$	0	0	0	0	0	0	$\frac{\sqrt{165}}{1155}$	0	0	0	0	
		0	0	$\frac{20\sqrt{11}}{231}$	0	0	0	0	0	0	$\frac{\sqrt{33}}{77}$	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	$-\frac{4\sqrt{1155}}{4235}$	0	0	0	0	0	0	
		$-\frac{\sqrt{55}}{77}$	0	0	0	0	0	0	$\frac{6\sqrt{330}}{4235}$	0	0	0	0	0	
		0	$\frac{5\sqrt{11}}{231}$	0	0	0	0	0	0	$\frac{34\sqrt{110}}{12705}$	0	0	0	0	
		0	0	$\frac{5\sqrt{11}}{231}$	0	0	0	0	0	0	$-\frac{4\sqrt{33}}{2541}$	0	0	0	
		0	0	0	$-\frac{\sqrt{55}}{77}$	0	0	0	0	0	0	$-\frac{8\sqrt{165}}{2541}$	0	0	

continued ...

Table 9

No.	multipole	matrix																		
827	$M_{4,-3}^{(1,1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{\sqrt{110}}{165}$	0	0	0	0	0	0	0	0	0	0	0	0
		$\frac{2\sqrt{1155}}{231}$	0	0	0	0	0	0	$-\frac{2\sqrt{770}}{1155}$	0	0	0	0	0	0	0	0	0	0	0
		0	$-\frac{10\sqrt{77}}{231}$	0	0	0	0	0	0	$-\frac{\sqrt{770}}{385}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{2\sqrt{165}}{605}$	0	0	0	0	0	0	0	0	0	0	0	0
		$-\frac{\sqrt{770}}{231}$	0	0	0	0	0	0	$-\frac{2\sqrt{1155}}{12705}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$\frac{2\sqrt{770}}{1815}$	0	0	0	0	0	0	0	0	0	0
		0	0	$\frac{\sqrt{770}}{231}$	0	0	0	0	0	0	0	$\frac{2\sqrt{2310}}{2541}$	0	0	0	0	0	0	0	0
828	$M_{4,-4}^{(1,1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	$\frac{2\sqrt{55}}{165}$	0	0	0	0	0	0	0	0	0	0	0	
		$\frac{4\sqrt{770}}{231}$	0	0	0	0	0	0	$\frac{2\sqrt{1155}}{1155}$	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	$-\frac{4\sqrt{330}}{1815}$	0	0	0	0	0	0	0	0	0	0	0	
		$-\frac{\sqrt{770}}{231}$	0	0	0	0	0	0	$-\frac{16\sqrt{1155}}{12705}$	0	0	0	0	0	0	0	0	0	0	
		0	$-\frac{\sqrt{770}}{231}$	0	0	0	0	0	0	$-\frac{8\sqrt{77}}{2541}$	0	0	0	0	0	0	0	0	0	

$$\text{bra:} = \left| \frac{5}{2}, \frac{5}{2}; f \right\rangle, \left| \frac{5}{2}, \frac{3}{2}; f \right\rangle, \left| \frac{5}{2}, \frac{1}{2}; f \right\rangle, \left| \frac{5}{2}, -\frac{1}{2}; f \right\rangle, \left| \frac{5}{2}, -\frac{3}{2}; f \right\rangle, \left| \frac{5}{2}, -\frac{5}{2}; f \right\rangle, \left| \frac{7}{2}, \frac{7}{2}; f \right\rangle, \left| \frac{7}{2}, \frac{5}{2}; f \right\rangle, \left| \frac{7}{2}, \frac{3}{2}; f \right\rangle, \left| \frac{7}{2}, \frac{1}{2}; f \right\rangle, \left| \frac{7}{2}, -\frac{1}{2}; f \right\rangle, \left| \frac{7}{2}, -\frac{3}{2}; f \right\rangle, \left| \frac{7}{2}, -\frac{5}{2}; f \right\rangle, \left| \frac{7}{2}, -\frac{7}{2}; f \right\rangle$$

$$\text{ket:} = \left| \frac{5}{2}, \frac{5}{2}; f \right\rangle, \left| \frac{5}{2}, \frac{3}{2}; f \right\rangle, \left| \frac{5}{2}, \frac{1}{2}; f \right\rangle, \left| \frac{5}{2}, -\frac{1}{2}; f \right\rangle, \left| \frac{5}{2}, -\frac{3}{2}; f \right\rangle, \left| \frac{5}{2}, -\frac{5}{2}; f \right\rangle, \left| \frac{7}{2}, \frac{7}{2}; f \right\rangle, \left| \frac{7}{2}, \frac{5}{2}; f \right\rangle, \left| \frac{7}{2}, \frac{3}{2}; f \right\rangle, \left| \frac{7}{2}, \frac{1}{2}; f \right\rangle, \left| \frac{7}{2}, -\frac{1}{2}; f \right\rangle, \left| \frac{7}{2}, -\frac{3}{2}; f \right\rangle, \left| \frac{7}{2}, -\frac{5}{2}; f \right\rangle, \left| \frac{7}{2}, -\frac{7}{2}; f \right\rangle$$

Table 10: (f,f) block.

No.	multipole	matrix
829	$Q_{0,0}^{(a)}$	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 1 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 1 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 1 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 0 1 0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 1 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 1 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 1 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 1 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 1 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0 1 0 0 0 0
		0 0 0 0 0 0 0 0 0 0 0 1 0 0 0
		0 0 0 0 0 0 0 0 0 0 0 0 1 0 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 1 0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 1		

continued ...

Table 10

No.	multipole	matrix												
		0	0	$-\frac{2\sqrt{15}}{35}$	0	0	0	0	0	$-\frac{2\sqrt{5}}{105}$	0	0	0	0
		0	0	0	$-\frac{6\sqrt{3}}{35}$	0	0	0	0	0	$-\frac{8}{105}$	0	0	0
		0	0	0	0	$-\frac{6\sqrt{3}}{35}$	0	0	0	0	0	$-\frac{2\sqrt{30}}{105}$	0	0
		0	0	0	0	0	$-\frac{2\sqrt{15}}{35}$	0	0	0	0	0	$-\frac{4\sqrt{10}}{105}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{35}}{105}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
830	$Q_{2,2}^{(a)}$	0	$\frac{2\sqrt{35}}{105}$	0	0	0	0	0	$-\frac{\sqrt{14}}{21}$	0	0	0	0	0
		0	0	$\frac{4\sqrt{10}}{105}$	0	0	0	0	0	$-\frac{\sqrt{30}}{21}$	0	0	0	0
		0	0	0	$\frac{2\sqrt{30}}{105}$	0	0	0	0	0	$-\frac{2\sqrt{10}}{21}$	0	0	0
		0	0	0	0	$\frac{8}{105}$	0	0	0	0	0	$-\frac{2\sqrt{10}}{21}$	0	0
		0	0	0	0	0	$\frac{2\sqrt{5}}{105}$	0	0	0	0	0	$-\frac{\sqrt{30}}{21}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{14}}{21}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix															
831	$Q_{2,1}^{(a)}$	0	$\frac{2\sqrt{30}}{35}$	0	0	0	0	0	0	$\frac{\sqrt{3}}{21}$	0	0	0	0	0		
		0	0	$\frac{4\sqrt{3}}{35}$	0	0	0	0	0	0	$\frac{11}{105}$	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{2}}{15}$	0	0	0	0	
		0	0	0	0	$-\frac{4\sqrt{3}}{35}$	0	0	0	0	0	0	$\frac{\sqrt{30}}{105}$	0	0	0	
		0	0	0	0	0	$-\frac{2\sqrt{30}}{35}$	0	0	0	0	0	0	$-\frac{\sqrt{5}}{105}$	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{7}}{21}$	0	
		$-\frac{\sqrt{7}}{21}$	0	0	0	0	0	0	$\frac{\sqrt{42}}{21}$	0	0	0	0	0	0	0	0
		0	$-\frac{\sqrt{5}}{105}$	0	0	0	0	0	0	$\frac{4\sqrt{2}}{21}$	0	0	0	0	0	0	0
		0	0	$\frac{\sqrt{30}}{105}$	0	0	0	0	0	0	$\frac{\sqrt{10}}{21}$	0	0	0	0	0	0
		0	0	0	$\frac{\sqrt{2}}{15}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{11}{105}$	0	0	0	0	0	0	$-\frac{\sqrt{10}}{21}$	0	0	0	0
		0	0	0	0	0	$\frac{\sqrt{3}}{21}$	0	0	0	0	0	0	$-\frac{4\sqrt{2}}{21}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{42}}{21}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix														
832	$Q_{2,0}^{(a)}$	$-\frac{2}{7}$	0	0	0	0	0	0	$-\frac{\sqrt{6}}{21}$	0	0	0	0	0	0	
		0	$\frac{2}{35}$	0	0	0	0	0	0	$-\frac{\sqrt{10}}{35}$	0	0	0	0	0	0
		0	0	$\frac{8}{35}$	0	0	0	0	0	0	$-\frac{2\sqrt{3}}{105}$	0	0	0	0	0
		0	0	0	$\frac{8}{35}$	0	0	0	0	0	0	$\frac{2\sqrt{3}}{105}$	0	0	0	0
		0	0	0	0	$\frac{2}{35}$	0	0	0	0	0	0	$\frac{\sqrt{10}}{35}$	0	0	0
		0	0	0	0	0	$-\frac{2}{7}$	0	0	0	0	0	0	$\frac{\sqrt{6}}{21}$	0	0
		0	0	0	0	0	0	$-\frac{1}{3}$	0	0	0	0	0	0	0	0
		$-\frac{\sqrt{6}}{21}$	0	0	0	0	0	0	0	$-\frac{1}{21}$	0	0	0	0	0	0
		0	$-\frac{\sqrt{10}}{35}$	0	0	0	0	0	0	0	$\frac{1}{7}$	0	0	0	0	0
		0	0	$-\frac{2\sqrt{3}}{105}$	0	0	0	0	0	0	0	$\frac{5}{21}$	0	0	0	0
		0	0	0	$\frac{2\sqrt{3}}{105}$	0	0	0	0	0	0	0	$\frac{5}{21}$	0	0	0
		0	0	0	0	$\frac{\sqrt{10}}{35}$	0	0	0	0	0	0	0	$\frac{1}{7}$	0	0
		0	0	0	0	0	$\frac{\sqrt{6}}{21}$	0	0	0	0	0	0	0	$-\frac{1}{21}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{1}{3}$

continued ...

Table 10

No.	multipole	matrix													
833	$\mathbb{Q}_{2,-1}^{(a)}$	0	0	0	0	0	0	$\frac{\sqrt{7}}{21}$	0	0	0	0	0	0	0
		$-\frac{2\sqrt{30}}{35}$	0	0	0	0	0	0	0	$\frac{\sqrt{5}}{105}$	0	0	0	0	0
		0	$-\frac{4\sqrt{3}}{35}$	0	0	0	0	0	0	0	$-\frac{\sqrt{30}}{105}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{2}}{15}$	0	0	0
		0	0	0	$\frac{4\sqrt{3}}{35}$	0	0	0	0	0	0	0	$-\frac{11}{105}$	0	0
		0	0	0	0	$\frac{2\sqrt{30}}{35}$	0	0	0	0	0	0	0	$-\frac{\sqrt{3}}{21}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{\sqrt{42}}{21}$	0	0	0	0	0	0	0
		$-\frac{\sqrt{3}}{21}$	0	0	0	0	0	0	0	$-\frac{4\sqrt{2}}{21}$	0	0	0	0	0
		0	$-\frac{11}{105}$	0	0	0	0	0	0	0	$-\frac{\sqrt{10}}{21}$	0	0	0	0
		0	0	$-\frac{\sqrt{2}}{15}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$-\frac{\sqrt{30}}{105}$	0	0	0	0	0	0	0	$\frac{\sqrt{10}}{21}$	0	0
		0	0	0	0	$\frac{\sqrt{5}}{105}$	0	0	0	0	0	0	0	$\frac{4\sqrt{2}}{21}$	0
		0	0	0	0	0	$\frac{\sqrt{7}}{21}$	0	0	0	0	0	0	0	$\frac{\sqrt{42}}{21}$

continued ...

Table 10

No.	multipole	matrix													
		0	0	0	0	$\frac{\sqrt{14}}{21}$	0	0	0	0	0	0	$\frac{4\sqrt{35}}{231}$	0	0
		0	0	0	0	0	$\frac{\sqrt{14}}{21}$	0	0	0	0	0	0	$\frac{8\sqrt{21}}{231}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{6}}{33}$
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
835	$Q_{4,4}^{(a)}$	0	0	0	$-\frac{2\sqrt{6}}{33}$	0	0	0	0	0	0	$\frac{\sqrt{2}}{11}$	0	0	0
		0	0	0	0	$-\frac{8\sqrt{21}}{231}$	0	0	0	0	0	0	$\frac{\sqrt{210}}{77}$	0	0
		0	0	0	0	0	$-\frac{4\sqrt{35}}{231}$	0	0	0	0	0	0	$\frac{\sqrt{210}}{77}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{2}}{11}$
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix															
836	$Q_{4,3}^{(a)}$	0	0	0	$-\frac{\sqrt{14}}{21}$	0	0	0	0	0	0	$-\frac{5\sqrt{42}}{231}$	0	0	0		
		0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{14}}{33}$	0	0	0	
		0	0	0	0	0	$\frac{\sqrt{14}}{21}$	0	0	0	0	0	0	$\frac{\sqrt{21}}{231}$	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{3}}{11}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	$\frac{\sqrt{3}}{11}$	0	0	0	0	0	0	$-\frac{2}{11}$	0	0	0	0	0	0
		0	0	0	$\frac{\sqrt{21}}{231}$	0	0	0	0	0	0	$-\frac{4\sqrt{7}}{77}$	0	0	0	0	0
		0	0	0	0	$-\frac{\sqrt{14}}{33}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$-\frac{5\sqrt{42}}{231}$	0	0	0	0	0	0	0	$\frac{4\sqrt{7}}{77}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{2}{11}$
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix													
837	$Q_{4,2}^{(a)}$	0	0	$\frac{1}{7}$	0	0	0	0	0	$\frac{20\sqrt{3}}{231}$	0	0	0	0	
		0	0	0	$-\frac{\sqrt{5}}{21}$	0	0	0	0	0	$\frac{2\sqrt{15}}{231}$	0	0	0	
		0	0	0	0	$-\frac{\sqrt{5}}{21}$	0	0	0	0	0	$-\frac{17\sqrt{2}}{231}$	0	0	
		0	0	0	0	0	$\frac{1}{7}$	0	0	0	0	0	$-\frac{3\sqrt{6}}{77}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{21}}{77}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	$-\frac{2\sqrt{21}}{77}$	0	0	0	0	0	0	$\frac{\sqrt{210}}{77}$	0	0	0	0	0
		0	0	$\frac{3\sqrt{6}}{77}$	0	0	0	0	0	0	$\frac{\sqrt{2}}{77}$	0	0	0	0
		0	0	0	$\frac{17\sqrt{2}}{231}$	0	0	0	0	0	$-\frac{4\sqrt{6}}{77}$	0	0	0	0
		0	0	0	0	$-\frac{2\sqrt{15}}{231}$	0	0	0	0	0	$-\frac{4\sqrt{6}}{77}$	0	0	0
		0	0	0	0	0	$-\frac{20\sqrt{3}}{231}$	0	0	0	0	0	$\frac{\sqrt{2}}{77}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{210}}{77}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	

continued ...

Table 10

No.	multipole	matrix															
838	$Q_{4,1}^{(a)}$	0	$-\frac{2}{21}$	0	0	0	0	0	0	$-\frac{10\sqrt{10}}{231}$	0	0	0	0	0		
		0	0	$\frac{\sqrt{10}}{21}$	0	0	0	0	0	0	$\frac{2\sqrt{30}}{231}$	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{15}}{33}$	0	0	0	0	
		0	0	0	0	$-\frac{\sqrt{10}}{21}$	0	0	0	0	0	0	$\frac{1}{231}$	0	0	0	
		0	0	0	0	0	$\frac{2}{21}$	0	0	0	0	0	0	$-\frac{13\sqrt{6}}{231}$	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{210}}{231}$	0	
		$\frac{\sqrt{210}}{231}$	0	0	0	0	0	0	$-\frac{2\sqrt{35}}{77}$	0	0	0	0	0	0	0	0
		0	$-\frac{13\sqrt{6}}{231}$	0	0	0	0	0	0	$\frac{2\sqrt{15}}{77}$	0	0	0	0	0	0	0
		0	0	$\frac{1}{231}$	0	0	0	0	0	0	$\frac{6\sqrt{3}}{77}$	0	0	0	0	0	0
		0	0	0	$\frac{\sqrt{15}}{33}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{2\sqrt{30}}{231}$	0	0	0	0	0	0	$-\frac{6\sqrt{3}}{77}$	0	0	0	0
		0	0	0	0	0	$-\frac{10\sqrt{10}}{231}$	0	0	0	0	0	0	$-\frac{2\sqrt{15}}{77}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{35}}{77}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix															
839	$Q_{4,0}^{(a)}$	$\frac{1}{21}$	0	0	0	0	0	0	$\frac{10\sqrt{6}}{231}$	0	0	0	0	0	0		
		0	$-\frac{1}{7}$	0	0	0	0	0	0	$-\frac{8\sqrt{10}}{231}$	0	0	0	0	0	0	
		0	0	$\frac{2}{21}$	0	0	0	0	0	0	$-\frac{10\sqrt{3}}{231}$	0	0	0	0	0	
		0	0	0	$\frac{2}{21}$	0	0	0	0	0	0	$\frac{10\sqrt{3}}{231}$	0	0	0	0	
		0	0	0	0	$-\frac{1}{7}$	0	0	0	0	0	0	$\frac{8\sqrt{10}}{231}$	0	0	0	
		0	0	0	0	0	$\frac{1}{21}$	0	0	0	0	0	0	$-\frac{10\sqrt{6}}{231}$	0	0	
		0	0	0	0	0	0	$\frac{1}{11}$	0	0	0	0	0	0	0	0	
		$\frac{10\sqrt{6}}{231}$	0	0	0	0	0	0	$-\frac{13}{77}$	0	0	0	0	0	0	0	
		0	$-\frac{8\sqrt{10}}{231}$	0	0	0	0	0	0	$-\frac{3}{77}$	0	0	0	0	0	0	0
		0	0	$-\frac{10\sqrt{3}}{231}$	0	0	0	0	0	0	$\frac{9}{77}$	0	0	0	0	0	
		0	0	0	$\frac{10\sqrt{3}}{231}$	0	0	0	0	0	0	$\frac{9}{77}$	0	0	0	0	
		0	0	0	0	$\frac{8\sqrt{10}}{231}$	0	0	0	0	0	0	$-\frac{3}{77}$	0	0	0	
		0	0	0	0	0	$-\frac{10\sqrt{6}}{231}$	0	0	0	0	0	0	$-\frac{13}{77}$	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{1}{11}$	

continued ...

Table 10

No.	multipole	matrix															
840	$\mathbb{Q}_{4,-1}^{(a)}$	0	0	0	0	0	0	$-\frac{\sqrt{210}}{231}$	0	0	0	0	0	0	0		
		$\frac{2}{21}$	0	0	0	0	0	0	$\frac{13\sqrt{6}}{231}$	0	0	0	0	0	0	0	
		0	$-\frac{\sqrt{10}}{21}$	0	0	0	0	0	0	$-\frac{1}{231}$	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{15}}{33}$	0	0	0	0	0	
		0	0	0	$\frac{\sqrt{10}}{21}$	0	0	0	0	0	0	$-\frac{2\sqrt{30}}{231}$	0	0	0	0	
		0	0	0	0	$-\frac{2}{21}$	0	0	0	0	0	0	$\frac{10\sqrt{10}}{231}$	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	$\frac{2\sqrt{35}}{77}$	0	0	0	0	0	0	0	0	
		$\frac{10\sqrt{10}}{231}$	0	0	0	0	0	0	$-\frac{2\sqrt{15}}{77}$	0	0	0	0	0	0	0	0
		0	$-\frac{2\sqrt{30}}{231}$	0	0	0	0	0	0	$-\frac{6\sqrt{3}}{77}$	0	0	0	0	0	0	0
		0	0	$-\frac{\sqrt{15}}{33}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$-\frac{1}{231}$	0	0	0	0	0	0	$\frac{6\sqrt{3}}{77}$	0	0	0	0	0
		0	0	0	0	$\frac{13\sqrt{6}}{231}$	0	0	0	0	0	0	$\frac{2\sqrt{15}}{77}$	0	0	0	0
		0	0	0	0	0	$-\frac{\sqrt{210}}{231}$	0	0	0	0	0	0	0	$-\frac{2\sqrt{35}}{77}$	0	0

continued ...

Table 10

No.	multipole	matrix											
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{2\sqrt{21}}{77}$	0	0	0	0	0
		$\frac{1}{7}$	0	0	0	0	0	0	$\frac{3\sqrt{6}}{77}$	0	0	0	0
		0	$-\frac{\sqrt{5}}{21}$	0	0	0	0	0	0	$\frac{17\sqrt{2}}{231}$	0	0	0
		0	0	$-\frac{\sqrt{5}}{21}$	0	0	0	0	0	0	$-\frac{2\sqrt{15}}{231}$	0	0
		0	0	0	$\frac{1}{7}$	0	0	0	0	0	0	$-\frac{20\sqrt{3}}{231}$	0
841	$\mathbb{Q}_{4,-2}^{(a)}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{\sqrt{210}}{77}$	0	0	0	0	0
		$\frac{20\sqrt{3}}{231}$	0	0	0	0	0	0	$\frac{\sqrt{2}}{77}$	0	0	0	0
		0	$\frac{2\sqrt{15}}{231}$	0	0	0	0	0	0	$-\frac{4\sqrt{6}}{77}$	0	0	0
		0	0	$-\frac{17\sqrt{2}}{231}$	0	0	0	0	0	0	$-\frac{4\sqrt{6}}{77}$	0	0
		0	0	0	$-\frac{3\sqrt{6}}{77}$	0	0	0	0	0	0	$\frac{\sqrt{2}}{77}$	0
		0	0	0	0	$\frac{2\sqrt{21}}{77}$	0	0	0	0	0	0	$\frac{\sqrt{210}}{77}$

continued ...

Table 10

No.	multipole	matrix													
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{2\sqrt{6}}{33}$	0	0	0	0	0	0	0
		$\frac{\sqrt{14}}{21}$	0	0	0	0	0	0	$-\frac{8\sqrt{21}}{231}$	0	0	0	0	0	0
		0	$\frac{\sqrt{14}}{21}$	0	0	0	0	0	0	$-\frac{4\sqrt{35}}{231}$	0	0	0	0	0
843	$\mathbb{Q}_{4,-4}^{(a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{\sqrt{2}}{11}$	0	0	0	0	0	0	0
		$\frac{4\sqrt{35}}{231}$	0	0	0	0	0	0	$\frac{\sqrt{210}}{77}$	0	0	0	0	0	0
		0	$\frac{8\sqrt{21}}{231}$	0	0	0	0	0	0	$\frac{\sqrt{210}}{77}$	0	0	0	0	0
		0	0	$\frac{2\sqrt{6}}{33}$	0	0	0	0	0	0	$\frac{\sqrt{2}}{11}$	0	0	0	0

continued ...

Table 10

No.	multipole	matrix												
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{10\sqrt{22}}{143}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
844	$Q_{6,6}^{(a)}$	0	0	0	0	0	$\frac{10\sqrt{22}}{143}$	0	0	0	0	0	0	$-\frac{10\sqrt{33}}{429}$
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{10\sqrt{33}}{429}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix													
845	$Q_{6,5}^{(a)}$	0	0	0	0	0	0	0	0	0	0	0	$\frac{5\sqrt{462}}{429}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{5\sqrt{330}}{429}$
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$-\frac{5\sqrt{330}}{429}$	0	0	0	0	0	0	$\frac{10\sqrt{33}}{429}$	0
		0	0	0	0	0	0	$\frac{5\sqrt{462}}{429}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{10\sqrt{33}}{429}$
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix													
846	$Q_{6,4}^{(a)}$	0	0	0	0	0	0	0	0	0	0	$-\frac{10\sqrt{7}}{143}$	0	0	
		0	0	0	0	0	0	0	0	0	0	0	$\frac{10\sqrt{105}}{429}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{10\sqrt{30}}{429}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	$\frac{10\sqrt{30}}{429}$	0	0	0	0	0	0	$-\frac{5\sqrt{10}}{143}$	0	0	0
		0	0	0	0	$-\frac{10\sqrt{105}}{429}$	0	0	0	0	0	$\frac{5\sqrt{42}}{429}$	0	0	0
		0	0	0	0	0	$\frac{10\sqrt{7}}{143}$	0	0	0	0	0	$\frac{5\sqrt{42}}{429}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{5\sqrt{10}}{143}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix													
847	$Q_{6,3}^{(a)}$	0	0	0	0	0	0	0	0	0	$\frac{5\sqrt{14}}{143}$	0	0	0	
		0	0	0	0	0	0	0	0	0	0	$-\frac{5\sqrt{42}}{143}$	0	0	
		0	0	0	0	0	0	0	0	0	0	0	$\frac{10\sqrt{7}}{143}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{10}{143}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	$-\frac{10}{143}$	0	0	0	0	0	0	$\frac{20\sqrt{3}}{429}$	0	0	0	0
		0	0	0	$\frac{10\sqrt{7}}{143}$	0	0	0	0	0	0	$-\frac{10\sqrt{21}}{429}$	0	0	0
		0	0	0	0	$-\frac{5\sqrt{42}}{143}$	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$\frac{5\sqrt{14}}{143}$	0	0	0	0	0	0	$\frac{10\sqrt{21}}{429}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{20\sqrt{3}}{429}$
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix															
848	$Q_{6,2}^{(a)}$	0	0	0	0	0	0	0	0	0	$-\frac{10\sqrt{14}}{429}$	0	0	0	0		
		0	0	0	0	0	0	0	0	0	0	$\frac{10\sqrt{70}}{429}$	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	$-\frac{20\sqrt{21}}{429}$	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{20\sqrt{7}}{429}$	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{10\sqrt{2}}{429}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	$\frac{10\sqrt{2}}{429}$	0	0	0	0	0	0	$-\frac{10\sqrt{5}}{429}$	0	0	0	0	0	0	0
		0	0	$-\frac{20\sqrt{7}}{429}$	0	0	0	0	0	0	$\frac{10\sqrt{21}}{429}$	0	0	0	0	0	0
		0	0	0	$\frac{20\sqrt{21}}{429}$	0	0	0	0	0	0	$-\frac{10\sqrt{7}}{429}$	0	0	0	0	0
		0	0	0	0	$-\frac{10\sqrt{70}}{429}$	0	0	0	0	0	0	$-\frac{10\sqrt{7}}{429}$	0	0	0	0
		0	0	0	0	0	$\frac{10\sqrt{14}}{429}$	0	0	0	0	0	0	$\frac{10\sqrt{21}}{429}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{10\sqrt{5}}{429}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix														
849	$Q_{6,1}^{(a)}$	0	0	0	0	0	0	0	0	$\frac{5\sqrt{21}}{429}$	0	0	0	0		
		0	0	0	0	0	0	0	0	0	$-\frac{25\sqrt{7}}{429}$	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	$\frac{25\sqrt{14}}{429}$	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	$-\frac{5\sqrt{210}}{429}$	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{5\sqrt{35}}{429}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{5}{429}$	
		$-\frac{5}{429}$	0	0	0	0	0	0	0	$\frac{5\sqrt{6}}{429}$	0	0	0	0	0	0
		0	$\frac{5\sqrt{35}}{429}$	0	0	0	0	0	0	0	$-\frac{10\sqrt{14}}{429}$	0	0	0	0	0
		0	0	$-\frac{5\sqrt{210}}{429}$	0	0	0	0	0	0	0	$\frac{5\sqrt{70}}{429}$	0	0	0	0
		0	0	0	$\frac{25\sqrt{14}}{429}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{25\sqrt{7}}{429}$	0	0	0	0	0	0	0	$-\frac{5\sqrt{70}}{429}$	0	0
		0	0	0	0	0	$\frac{5\sqrt{21}}{429}$	0	0	0	0	0	0	0	$\frac{10\sqrt{14}}{429}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{5\sqrt{6}}{429}$
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix														
850	$Q_{6,0}^{(a)}$	0	0	0	0	0	0	0	$-\frac{5\sqrt{6}}{429}$	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	$\frac{5\sqrt{10}}{143}$	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	$-\frac{50\sqrt{3}}{429}$	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	$\frac{50\sqrt{3}}{429}$	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	$-\frac{5\sqrt{10}}{143}$	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{5\sqrt{6}}{429}$	0	
		0	0	0	0	0	0	0	$-\frac{5}{429}$	0	0	0	0	0	0	0
		$-\frac{5\sqrt{6}}{429}$	0	0	0	0	0	0	0	$\frac{25}{429}$	0	0	0	0	0	0
		0	$\frac{5\sqrt{10}}{143}$	0	0	0	0	0	0	0	$-\frac{15}{143}$	0	0	0	0	0
		0	0	$-\frac{50\sqrt{3}}{429}$	0	0	0	0	0	0	0	$\frac{25}{429}$	0	0	0	0
		0	0	0	$\frac{50\sqrt{3}}{429}$	0	0	0	0	0	0	0	$\frac{25}{429}$	0	0	0
		0	0	0	0	$-\frac{5\sqrt{10}}{143}$	0	0	0	0	0	0	0	$-\frac{15}{143}$	0	0
		0	0	0	0	0	$\frac{5\sqrt{6}}{429}$	0	0	0	0	0	0	0	$\frac{25}{429}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{5}{429}$

continued ...

Table 10

No.	multipole	matrix														
851	$\mathbb{Q}_{6,-1}^{(a)}$	0	0	0	0	0	0	$\frac{5}{429}$	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	$-\frac{5\sqrt{35}}{429}$	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	$\frac{5\sqrt{210}}{429}$	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	$-\frac{25\sqrt{14}}{429}$	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	$\frac{25\sqrt{7}}{429}$	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	$-\frac{5\sqrt{21}}{429}$	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	$-\frac{5\sqrt{6}}{429}$	0	0	0	0	0	0	0
		$-\frac{5\sqrt{21}}{429}$	0	0	0	0	0	0	0	$\frac{10\sqrt{14}}{429}$	0	0	0	0	0	0
		0	$\frac{25\sqrt{7}}{429}$	0	0	0	0	0	0	0	$-\frac{5\sqrt{70}}{429}$	0	0	0	0	0
		0	0	$-\frac{25\sqrt{14}}{429}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$\frac{5\sqrt{210}}{429}$	0	0	0	0	0	0	0	$\frac{5\sqrt{70}}{429}$	0	0	0
		0	0	0	0	$-\frac{5\sqrt{35}}{429}$	0	0	0	0	0	0	0	$-\frac{10\sqrt{14}}{429}$	0	0
		0	0	0	0	0	0	$\frac{5}{429}$	0	0	0	0	0	0	$\frac{5\sqrt{6}}{429}$	0

continued ...

Table 10

No.	multipole	matrix											
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{10\sqrt{30}}{429}$	0	0	0	0	0
		0	0	0	0	0	0	0	$-\frac{10\sqrt{105}}{429}$	0	0	0	0
		0	0	0	0	0	0	0	0	$\frac{10\sqrt{7}}{143}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{5\sqrt{10}}{143}$	0	0	0	0	0
		$-\frac{10\sqrt{7}}{143}$	0	0	0	0	0	0	$\frac{5\sqrt{42}}{429}$	0	0	0	0
		0	$\frac{10\sqrt{105}}{429}$	0	0	0	0	0	0	$\frac{5\sqrt{42}}{429}$	0	0	0
854	$\mathbb{Q}_{6,-4}^{(a)}$	0	0	$-\frac{10\sqrt{30}}{429}$	0	0	0	0	0	0	$-\frac{5\sqrt{10}}{143}$	0	0

continued ...

Table 10

No.	multipole	matrix											
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{10\sqrt{22}}{143}$	0	0	0	0	0
856	$\mathbb{Q}_{6,-6}^{(a)}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{10\sqrt{33}}{429}$	0	0	0	0	0
		$-\frac{10\sqrt{22}}{143}$	0	0	0	0	0	0	$-\frac{10\sqrt{33}}{429}$	0	0	0	0

continued ...

Table 10

No.	multipole	matrix												
		0	0	$-\frac{2\sqrt{10}}{7}$	0	0	0	0	0	$-\frac{\sqrt{30}}{7}$	0	0	0	0
		0	0	0	$-\frac{6\sqrt{2}}{7}$	0	0	0	0	0	$-\frac{4\sqrt{6}}{7}$	0	0	0
		0	0	0	0	$-\frac{6\sqrt{2}}{7}$	0	0	0	0	0	$-\frac{6\sqrt{5}}{7}$	0	0
		0	0	0	0	0	$-\frac{2\sqrt{10}}{7}$	0	0	0	0	0	$-\frac{4\sqrt{15}}{7}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{210}}{7}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
857	$\mathbb{Q}_{2,2}^{(1,-1;a)}$	0	$\frac{\sqrt{210}}{7}$	0	0	0	0	0	$\frac{2\sqrt{21}}{7}$	0	0	0	0	0
		0	0	$\frac{4\sqrt{15}}{7}$	0	0	0	0	0	$\frac{6\sqrt{5}}{7}$	0	0	0	0
		0	0	0	$\frac{6\sqrt{5}}{7}$	0	0	0	0	0	$\frac{4\sqrt{15}}{7}$	0	0	0
		0	0	0	0	$\frac{4\sqrt{6}}{7}$	0	0	0	0	0	$\frac{4\sqrt{15}}{7}$	0	0
		0	0	0	0	0	$\frac{\sqrt{30}}{7}$	0	0	0	0	0	$\frac{6\sqrt{5}}{7}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{21}}{7}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix													
858	$\mathbb{Q}_{2,1}^{(1,-1;a)}$	0	$\frac{4\sqrt{5}}{7}$	0	0	0	0	0	0	$\frac{15\sqrt{2}}{14}$	0	0	0	0	
		0	0	$\frac{4\sqrt{2}}{7}$	0	0	0	0	0	0	$\frac{11\sqrt{6}}{14}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$\sqrt{3}$	0	0	0
		0	0	0	0	$-\frac{4\sqrt{2}}{7}$	0	0	0	0	0	0	$\frac{3\sqrt{5}}{7}$	0	0
		0	0	0	0	0	$-\frac{4\sqrt{5}}{7}$	0	0	0	0	0	0	$-\frac{\sqrt{30}}{14}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{5\sqrt{42}}{14}$
		$-\frac{5\sqrt{42}}{14}$	0	0	0	0	0	0	$-\frac{6\sqrt{7}}{7}$	0	0	0	0	0	0
		0	$-\frac{\sqrt{30}}{14}$	0	0	0	0	0	0	$-\frac{8\sqrt{3}}{7}$	0	0	0	0	0
		0	0	$\frac{3\sqrt{5}}{7}$	0	0	0	0	0	0	$-\frac{2\sqrt{15}}{7}$	0	0	0	0
		0	0	0	$\sqrt{3}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{11\sqrt{6}}{14}$	0	0	0	0	0	0	$\frac{2\sqrt{15}}{7}$	0	0
		0	0	0	0	0	$\frac{15\sqrt{2}}{14}$	0	0	0	0	0	0	$\frac{8\sqrt{3}}{7}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{6\sqrt{7}}{7}$
		0	0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix														
859	$\mathbb{Q}_{2,0}^{(1,-1;a)}$	$-\frac{10\sqrt{6}}{21}$	0	0	0	0	0	0	$-\frac{15}{7}$	0	0	0	0	0	0	
		0	$\frac{2\sqrt{6}}{21}$	0	0	0	0	0	0	$-\frac{3\sqrt{15}}{7}$	0	0	0	0	0	0
		0	0	$\frac{8\sqrt{6}}{21}$	0	0	0	0	0	0	$-\frac{3\sqrt{2}}{7}$	0	0	0	0	0
		0	0	0	$\frac{8\sqrt{6}}{21}$	0	0	0	0	0	0	$\frac{3\sqrt{2}}{7}$	0	0	0	0
		0	0	0	0	$\frac{2\sqrt{6}}{21}$	0	0	0	0	0	0	$\frac{3\sqrt{15}}{7}$	0	0	0
		0	0	0	0	0	$-\frac{10\sqrt{6}}{21}$	0	0	0	0	0	0	$\frac{15}{7}$	0	0
		0	0	0	0	0	0	$\sqrt{6}$	0	0	0	0	0	0	0	0
		$-\frac{15}{7}$	0	0	0	0	0	0	$\frac{\sqrt{6}}{7}$	0	0	0	0	0	0	0
		0	$-\frac{3\sqrt{15}}{7}$	0	0	0	0	0	0	$-\frac{3\sqrt{6}}{7}$	0	0	0	0	0	0
		0	0	$-\frac{3\sqrt{2}}{7}$	0	0	0	0	0	0	$-\frac{5\sqrt{6}}{7}$	0	0	0	0	0
		0	0	0	$\frac{3\sqrt{2}}{7}$	0	0	0	0	0	0	$-\frac{5\sqrt{6}}{7}$	0	0	0	0
		0	0	0	0	$\frac{3\sqrt{15}}{7}$	0	0	0	0	0	0	$-\frac{3\sqrt{6}}{7}$	0	0	0
		0	0	0	0	0	$\frac{15}{7}$	0	0	0	0	0	0	$\frac{\sqrt{6}}{7}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\sqrt{6}$	

continued ...

Table 10

No.	multipole	matrix													
860	$\mathbb{Q}_{2,-1}^{(1,-1;a)}$	0	0	0	0	0	0	$\frac{5\sqrt{42}}{14}$	0	0	0	0	0	0	0
		$-\frac{4\sqrt{5}}{7}$	0	0	0	0	0	0	$\frac{\sqrt{30}}{14}$	0	0	0	0	0	0
		0	$-\frac{4\sqrt{2}}{7}$	0	0	0	0	0	0	$-\frac{3\sqrt{5}}{7}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$-\sqrt{3}$	0	0	0	0
		0	0	0	$\frac{4\sqrt{2}}{7}$	0	0	0	0	0	0	$-\frac{11\sqrt{6}}{14}$	0	0	0
		0	0	0	0	$\frac{4\sqrt{5}}{7}$	0	0	0	0	0	0	$-\frac{15\sqrt{2}}{14}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	$\frac{6\sqrt{7}}{7}$	0	0	0	0	0	0
		$-\frac{15\sqrt{2}}{14}$	0	0	0	0	0	0	0	$\frac{8\sqrt{3}}{7}$	0	0	0	0	0
		0	$-\frac{11\sqrt{6}}{14}$	0	0	0	0	0	0	0	$\frac{2\sqrt{15}}{7}$	0	0	0	0
		0	0	$-\sqrt{3}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$-\frac{3\sqrt{5}}{7}$	0	0	0	0	0	0	$-\frac{2\sqrt{15}}{7}$	0	0	0
		0	0	0	0	$\frac{\sqrt{30}}{14}$	0	0	0	0	0	0	$-\frac{8\sqrt{3}}{7}$	0	0
		0	0	0	0	0	$\frac{5\sqrt{42}}{14}$	0	0	0	0	0	0	$-\frac{6\sqrt{7}}{7}$	0

continued ...

Table 10

No.	multipole	matrix											
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{\sqrt{210}}{7}$	0	0	0	0	0
		$-\frac{2\sqrt{10}}{7}$	0	0	0	0	0	0	$\frac{4\sqrt{15}}{7}$	0	0	0	0
		0	$-\frac{6\sqrt{2}}{7}$	0	0	0	0	0	0	$\frac{6\sqrt{5}}{7}$	0	0	0
		0	0	$-\frac{6\sqrt{2}}{7}$	0	0	0	0	0	0	$\frac{4\sqrt{6}}{7}$	0	0
		0	0	0	$-\frac{2\sqrt{10}}{7}$	0	0	0	0	0	0	$\frac{\sqrt{30}}{7}$	0
861	$\mathbb{Q}_{2,-2}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{2\sqrt{21}}{7}$	0	0	0	0	0
		$-\frac{\sqrt{30}}{7}$	0	0	0	0	0	0	$\frac{6\sqrt{5}}{7}$	0	0	0	0
		0	$-\frac{4\sqrt{6}}{7}$	0	0	0	0	0	0	$\frac{4\sqrt{15}}{7}$	0	0	0
		0	0	$-\frac{6\sqrt{5}}{7}$	0	0	0	0	0	0	$\frac{4\sqrt{15}}{7}$	0	0
		0	0	0	$-\frac{4\sqrt{15}}{7}$	0	0	0	0	0	0	$\frac{6\sqrt{5}}{7}$	0
		0	0	0	0	$-\frac{\sqrt{210}}{7}$	0	0	0	0	0	0	$\frac{2\sqrt{21}}{7}$

continued ...

Table 10

No.	multipole	matrix												
		0	0	0	0	$\frac{2\sqrt{2}}{7}$	0	0	0	0	0	$\frac{2\sqrt{5}}{7}$	0	0
		0	0	0	0	0	$\frac{2\sqrt{2}}{7}$	0	0	0	0	0	$\frac{4\sqrt{3}}{7}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{42}}{7}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
862	$\mathbb{Q}_{4,4}^{(1,-1;a)}$	0	0	0	$-\frac{\sqrt{42}}{7}$	0	0	0	0	0	$-\frac{2\sqrt{14}}{7}$	0	0	0
		0	0	0	0	$-\frac{4\sqrt{3}}{7}$	0	0	0	0	0	$-\frac{2\sqrt{30}}{7}$	0	0
		0	0	0	0	0	$-\frac{2\sqrt{5}}{7}$	0	0	0	0	0	$-\frac{2\sqrt{30}}{7}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{14}}{7}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix															
863	$\mathbb{Q}_{4,3}^{(1,-1;a)}$	0	0	0	$-\frac{2\sqrt{2}}{7}$	0	0	0	0	0	0	$-\frac{5\sqrt{6}}{14}$	0	0	0		
		0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{2}}{2}$	0	0	0	
		0	0	0	0	0	$\frac{2\sqrt{2}}{7}$	0	0	0	0	0	0	$\frac{\sqrt{3}}{14}$	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{3\sqrt{21}}{14}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	$\frac{3\sqrt{21}}{14}$	0	0	0	0	0	0	$\frac{4\sqrt{7}}{7}$	0	0	0	0	0	0
		0	0	0	$\frac{\sqrt{3}}{14}$	0	0	0	0	0	0	$\frac{8}{7}$	0	0	0	0	0
		0	0	0	0	$-\frac{\sqrt{2}}{2}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$-\frac{5\sqrt{6}}{14}$	0	0	0	0	0	0	$-\frac{8}{7}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{4\sqrt{7}}{7}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix														
864	$\mathbb{Q}_{4,2}^{(1,-1;a)}$	0	0	$\frac{6\sqrt{7}}{49}$	0	0	0	0	0	$\frac{10\sqrt{21}}{49}$	0	0	0	0		
		0	0	0	$-\frac{2\sqrt{35}}{49}$	0	0	0	0	0	$\frac{\sqrt{105}}{49}$	0	0	0	0	
		0	0	0	0	$-\frac{2\sqrt{35}}{49}$	0	0	0	0	0	$-\frac{17\sqrt{14}}{98}$	0	0	0	
		0	0	0	0	0	$\frac{6\sqrt{7}}{49}$	0	0	0	0	0	$-\frac{9\sqrt{42}}{98}$	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{3\sqrt{3}}{7}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	$-\frac{3\sqrt{3}}{7}$	0	0	0	0	0	0	$-\frac{2\sqrt{30}}{7}$	0	0	0	0	0	0
		0	0	$\frac{9\sqrt{42}}{98}$	0	0	0	0	0	$-\frac{2\sqrt{14}}{49}$	0	0	0	0	0	0
		0	0	0	$\frac{17\sqrt{14}}{98}$	0	0	0	0	0	$\frac{8\sqrt{42}}{49}$	0	0	0	0	0
		0	0	0	0	$-\frac{\sqrt{105}}{49}$	0	0	0	0	0	$\frac{8\sqrt{42}}{49}$	0	0	0	0
		0	0	0	0	0	$-\frac{10\sqrt{21}}{49}$	0	0	0	0	0	$-\frac{2\sqrt{14}}{49}$	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{30}}{7}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	

continued ...

Table 10

No.	multipole	matrix														
865	$\mathbb{Q}_{4,1}^{(1,-1;a)}$	0	$-\frac{4\sqrt{7}}{49}$	0	0	0	0	0	0	$-\frac{5\sqrt{70}}{49}$	0	0	0	0		
		0	0	$\frac{2\sqrt{70}}{49}$	0	0	0	0	0	0	$\frac{\sqrt{210}}{49}$	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{105}}{14}$	0	0	0	
		0	0	0	0	$-\frac{2\sqrt{70}}{49}$	0	0	0	0	0	0	$\frac{\sqrt{7}}{98}$	0	0	
		0	0	0	0	0	$\frac{4\sqrt{7}}{49}$	0	0	0	0	0	0	$-\frac{13\sqrt{42}}{98}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{30}}{14}$	
		$\frac{\sqrt{30}}{14}$	0	0	0	0	0	0	$\frac{4\sqrt{5}}{7}$	0	0	0	0	0	0	0
		0	$-\frac{13\sqrt{42}}{98}$	0	0	0	0	0	0	$-\frac{4\sqrt{105}}{49}$	0	0	0	0	0	0
		0	0	$\frac{\sqrt{7}}{98}$	0	0	0	0	0	0	$-\frac{12\sqrt{21}}{49}$	0	0	0	0	0
		0	0	0	$\frac{\sqrt{105}}{14}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{\sqrt{210}}{49}$	0	0	0	0	0	0	$\frac{12\sqrt{21}}{49}$	0	0	0
		0	0	0	0	0	$-\frac{5\sqrt{70}}{49}$	0	0	0	0	0	0	$\frac{4\sqrt{105}}{49}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{4\sqrt{5}}{7}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix													
866	$\mathbb{Q}_{4,0}^{(1,-1;a)}$	$\frac{2\sqrt{7}}{49}$	0	0	0	0	0	0	$\frac{5\sqrt{42}}{49}$	0	0	0	0	0	0
		0	$-\frac{6\sqrt{7}}{49}$	0	0	0	0	0	0	$-\frac{4\sqrt{70}}{49}$	0	0	0	0	0
		0	0	$\frac{4\sqrt{7}}{49}$	0	0	0	0	0	0	$-\frac{5\sqrt{21}}{49}$	0	0	0	0
		0	0	0	$\frac{4\sqrt{7}}{49}$	0	0	0	0	0	0	$\frac{5\sqrt{21}}{49}$	0	0	0
		0	0	0	0	$-\frac{6\sqrt{7}}{49}$	0	0	0	0	0	0	$\frac{4\sqrt{70}}{49}$	0	0
		0	0	0	0	0	$\frac{2\sqrt{7}}{49}$	0	0	0	0	0	0	$-\frac{5\sqrt{42}}{49}$	0
		0	0	0	0	0	0	$-\frac{2\sqrt{7}}{7}$	0	0	0	0	0	0	0
		$\frac{5\sqrt{42}}{49}$	0	0	0	0	0	0	$\frac{26\sqrt{7}}{49}$	0	0	0	0	0	0
		0	$-\frac{4\sqrt{70}}{49}$	0	0	0	0	0	0	$\frac{6\sqrt{7}}{49}$	0	0	0	0	0
		0	0	$-\frac{5\sqrt{21}}{49}$	0	0	0	0	0	0	$-\frac{18\sqrt{7}}{49}$	0	0	0	0
		0	0	0	$\frac{5\sqrt{21}}{49}$	0	0	0	0	0	0	$-\frac{18\sqrt{7}}{49}$	0	0	0
		0	0	0	0	$\frac{4\sqrt{70}}{49}$	0	0	0	0	0	0	$\frac{6\sqrt{7}}{49}$	0	0
		0	0	0	0	0	$-\frac{5\sqrt{42}}{49}$	0	0	0	0	0	0	$\frac{26\sqrt{7}}{49}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{7}}{7}$

continued ...

Table 10

No.	multipole	matrix													
867	$\mathbb{Q}_{4,-1}^{(1,-1;a)}$	0	0	0	0	0	0	$-\frac{\sqrt{30}}{14}$	0	0	0	0	0	0	0
		$\frac{4\sqrt{7}}{49}$	0	0	0	0	0	0	$\frac{13\sqrt{42}}{98}$	0	0	0	0	0	0
		0	$-\frac{2\sqrt{70}}{49}$	0	0	0	0	0	0	$-\frac{\sqrt{7}}{98}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{105}}{14}$	0	0	0	0
		0	0	0	$\frac{2\sqrt{70}}{49}$	0	0	0	0	0	0	$-\frac{\sqrt{210}}{49}$	0	0	0
		0	0	0	0	$-\frac{4\sqrt{7}}{49}$	0	0	0	0	0	0	$\frac{5\sqrt{70}}{49}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{4\sqrt{5}}{7}$	0	0	0	0	0	0	0
		$\frac{5\sqrt{70}}{49}$	0	0	0	0	0	0	$\frac{4\sqrt{105}}{49}$	0	0	0	0	0	0
		0	$-\frac{\sqrt{210}}{49}$	0	0	0	0	0	0	$\frac{12\sqrt{21}}{49}$	0	0	0	0	0
		0	0	$-\frac{\sqrt{105}}{14}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$-\frac{\sqrt{7}}{98}$	0	0	0	0	0	0	$-\frac{12\sqrt{21}}{49}$	0	0	0
		0	0	0	0	$\frac{13\sqrt{42}}{98}$	0	0	0	0	0	0	$-\frac{4\sqrt{105}}{49}$	0	0
		0	0	0	0	0	$-\frac{\sqrt{30}}{14}$	0	0	0	0	0	0	$\frac{4\sqrt{5}}{7}$	0

continued ...

Table 10

No.	multipole	matrix													
868	$\mathbb{Q}_{4,-2}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{3\sqrt{3}}{7}$	0	0	0	0	0	0	0
		$\frac{6\sqrt{7}}{49}$	0	0	0	0	0	0	$\frac{9\sqrt{42}}{98}$	0	0	0	0	0	0
		0	$-\frac{2\sqrt{35}}{49}$	0	0	0	0	0	0	$\frac{17\sqrt{14}}{98}$	0	0	0	0	0
		0	0	$-\frac{2\sqrt{35}}{49}$	0	0	0	0	0	0	$-\frac{\sqrt{105}}{49}$	0	0	0	0
		0	0	0	$\frac{6\sqrt{7}}{49}$	0	0	0	0	0	0	$-\frac{10\sqrt{21}}{49}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{2\sqrt{30}}{7}$	0	0	0	0	0	0	0
		$\frac{10\sqrt{21}}{49}$	0	0	0	0	0	0	$-\frac{2\sqrt{14}}{49}$	0	0	0	0	0	0
		0	$\frac{\sqrt{105}}{49}$	0	0	0	0	0	0	$\frac{8\sqrt{42}}{49}$	0	0	0	0	0
		0	0	$-\frac{17\sqrt{14}}{98}$	0	0	0	0	0	0	$\frac{8\sqrt{42}}{49}$	0	0	0	0
		0	0	0	$-\frac{9\sqrt{42}}{98}$	0	0	0	0	0	0	$-\frac{2\sqrt{14}}{49}$	0	0	0
		0	0	0	0	$\frac{3\sqrt{3}}{7}$	0	0	0	0	0	0	$-\frac{2\sqrt{30}}{7}$	0	0

continued ...

Table 10

No.	multipole	matrix											
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{3\sqrt{21}}{14}$	0	0	0	0	0
		$\frac{2\sqrt{2}}{7}$	0	0	0	0	0	0	$-\frac{\sqrt{3}}{14}$	0	0	0	0
		0	0	0	0	0	0	0	0	$\frac{\sqrt{2}}{2}$	0	0	0
		0	0	$-\frac{2\sqrt{2}}{7}$	0	0	0	0	0	0	$\frac{5\sqrt{6}}{14}$	0	0
869	$\mathbb{Q}_{4,-3}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{4\sqrt{7}}{7}$	0	0	0	0	0
		$\frac{5\sqrt{6}}{14}$	0	0	0	0	0	0	$-\frac{8}{7}$	0	0	0	0
		0	$\frac{\sqrt{2}}{2}$	0	0	0	0	0	0	0	0	0	0
		0	0	$-\frac{\sqrt{3}}{14}$	0	0	0	0	0	0	$\frac{8}{7}$	0	0
		0	0	0	$-\frac{3\sqrt{21}}{14}$	0	0	0	0	0	0	$\frac{4\sqrt{7}}{7}$	0

continued ...

Table 10

No.	multipole	matrix											
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{\sqrt{42}}{7}$	0	0	0	0	0
		$\frac{2\sqrt{2}}{7}$	0	0	0	0	0	0	$-\frac{4\sqrt{3}}{7}$	0	0	0	0
		0	$\frac{2\sqrt{2}}{7}$	0	0	0	0	0	0	$-\frac{2\sqrt{5}}{7}$	0	0	0
870	$\mathbb{Q}_{4,-4}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{2\sqrt{14}}{7}$	0	0	0	0	0
		$\frac{2\sqrt{5}}{7}$	0	0	0	0	0	0	$-\frac{2\sqrt{30}}{7}$	0	0	0	0
		0	$\frac{4\sqrt{3}}{7}$	0	0	0	0	0	0	$-\frac{2\sqrt{30}}{7}$	0	0	0
		0	0	$\frac{\sqrt{42}}{7}$	0	0	0	0	0	0	$-\frac{2\sqrt{14}}{7}$	0	0

continued ...

Table 10

No.	multipole	matrix												
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{10\sqrt{3}}{33}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
871	$\mathbb{Q}_{6,6}^{(1,-1;a)}$	0	0	0	0	0	$\frac{10\sqrt{3}}{33}$	0	0	0	0	0	$\frac{10\sqrt{2}}{11}$	0
		0	0	0	0	0	0	0	0	0	0	0	$\frac{10\sqrt{2}}{11}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix													
		0	0	0	0	0	0	0	0	0	0	0	$\frac{5\sqrt{7}}{33}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{5\sqrt{5}}{33}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
872	$\mathbb{Q}_{6,5}^{(1,-1;a)}$	0	0	0	0	$-\frac{5\sqrt{5}}{33}$	0	0	0	0	0	0	$-\frac{10\sqrt{2}}{11}$	0	
		0	0	0	0	0	$\frac{5\sqrt{7}}{33}$	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{10\sqrt{2}}{11}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	

continued ...

Table 10

No.	multipole	matrix												
		0	0	0	0	0	0	0	0	0	0	$-\frac{5\sqrt{462}}{363}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	$\frac{5\sqrt{770}}{363}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{10\sqrt{55}}{363}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
873	$\mathbb{Q}_{6,4}^{(1,-1;a)}$	0	0	0	$\frac{10\sqrt{55}}{363}$	0	0	0	0	0	$\frac{10\sqrt{165}}{121}$	0	0	0
		0	0	0	0	$-\frac{5\sqrt{770}}{363}$	0	0	0	0	0	$-\frac{10\sqrt{77}}{121}$	0	0
		0	0	0	0	0	$\frac{5\sqrt{462}}{363}$	0	0	0	0	0	$-\frac{10\sqrt{77}}{121}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{10\sqrt{165}}{121}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix														
874	$\mathbb{Q}_{6,3}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	$\frac{5\sqrt{231}}{363}$	0	0	0		
		0	0	0	0	0	0	0	0	0	0	$-\frac{5\sqrt{77}}{121}$	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	$\frac{5\sqrt{462}}{363}$	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{5\sqrt{66}}{363}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	$-\frac{5\sqrt{66}}{363}$	0	0	0	0	0	0	$-\frac{20\sqrt{22}}{121}$	0	0	0	0	0
		0	0	0	$\frac{5\sqrt{462}}{363}$	0	0	0	0	0	0	$\frac{10\sqrt{154}}{121}$	0	0	0	0
		0	0	0	0	$-\frac{5\sqrt{77}}{121}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$\frac{5\sqrt{231}}{363}$	0	0	0	0	0	0	$-\frac{10\sqrt{154}}{121}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{20\sqrt{22}}{121}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix															
875	$\mathbb{Q}_{6,2}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	$-\frac{10\sqrt{231}}{1089}$	0	0	0	0		
		0	0	0	0	0	0	0	0	0	0	$\frac{10\sqrt{1155}}{1089}$	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	$-\frac{10\sqrt{154}}{363}$	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{10\sqrt{462}}{1089}$	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{10\sqrt{33}}{1089}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	$\frac{10\sqrt{33}}{1089}$	0	0	0	0	0	0	0	$\frac{10\sqrt{330}}{363}$	0	0	0	0	0	0
		0	0	$-\frac{10\sqrt{462}}{1089}$	0	0	0	0	0	0	$-\frac{10\sqrt{154}}{121}$	0	0	0	0	0	0
		0	0	0	$\frac{10\sqrt{154}}{363}$	0	0	0	0	0	0	$\frac{10\sqrt{462}}{363}$	0	0	0	0	0
		0	0	0	0	$-\frac{10\sqrt{1155}}{1089}$	0	0	0	0	0	0	$\frac{10\sqrt{462}}{363}$	0	0	0	0
		0	0	0	0	0	$\frac{10\sqrt{231}}{1089}$	0	0	0	0	0	0	0	$-\frac{10\sqrt{154}}{121}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{10\sqrt{330}}{363}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix															
876	$\mathbb{Q}_{6,1}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	$\frac{5\sqrt{154}}{726}$	0	0	0	0	0		
		0	0	0	0	0	0	0	0	0	$-\frac{25\sqrt{462}}{2178}$	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	$\frac{25\sqrt{231}}{1089}$	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	$-\frac{5\sqrt{385}}{363}$	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{5\sqrt{2310}}{2178}$	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{5\sqrt{66}}{2178}$	0	
		$-\frac{5\sqrt{66}}{2178}$	0	0	0	0	0	0	0	$-\frac{10\sqrt{11}}{121}$	0	0	0	0	0	0	0
		0	$\frac{5\sqrt{2310}}{2178}$	0	0	0	0	0	0	0	$\frac{20\sqrt{231}}{363}$	0	0	0	0	0	0
		0	0	$-\frac{5\sqrt{385}}{363}$	0	0	0	0	0	0	0	$-\frac{10\sqrt{1155}}{363}$	0	0	0	0	0
		0	0	0	$\frac{25\sqrt{231}}{1089}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{25\sqrt{462}}{2178}$	0	0	0	0	0	0	0	$\frac{10\sqrt{1155}}{363}$	0	0	0
		0	0	0	0	0	$\frac{5\sqrt{154}}{726}$	0	0	0	0	0	0	0	$-\frac{20\sqrt{231}}{363}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{10\sqrt{11}}{121}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix													
877	$\mathbb{Q}_{6,0}^{(1,-1;a)}$	0	0	0	0	0	0	0	$-\frac{5\sqrt{11}}{363}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$\frac{5\sqrt{165}}{363}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$-\frac{25\sqrt{22}}{363}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$\frac{25\sqrt{22}}{363}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	$-\frac{5\sqrt{165}}{363}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{5\sqrt{11}}{363}$	0
		0	0	0	0	0	0	$\frac{5\sqrt{66}}{363}$	0	0	0	0	0	0	0
		$-\frac{5\sqrt{11}}{363}$	0	0	0	0	0	0	$-\frac{25\sqrt{66}}{363}$	0	0	0	0	0	0
		0	$\frac{5\sqrt{165}}{363}$	0	0	0	0	0	0	$\frac{15\sqrt{66}}{121}$	0	0	0	0	0
		0	0	$-\frac{25\sqrt{22}}{363}$	0	0	0	0	0	0	$-\frac{25\sqrt{66}}{363}$	0	0	0	0
		0	0	0	$\frac{25\sqrt{22}}{363}$	0	0	0	0	0	0	$-\frac{25\sqrt{66}}{363}$	0	0	0
		0	0	0	0	$-\frac{5\sqrt{165}}{363}$	0	0	0	0	0	0	$\frac{15\sqrt{66}}{121}$	0	0
		0	0	0	0	0	$\frac{5\sqrt{11}}{363}$	0	0	0	0	0	0	$-\frac{25\sqrt{66}}{363}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{5\sqrt{66}}{363}$

continued ...

Table 10

No.	multipole	matrix															
878	$\mathbb{Q}_{6,-1}^{(1,-1;a)}$	0	0	0	0	0	0	$\frac{5\sqrt{66}}{2178}$	0	0	0	0	0	0	0		
		0	0	0	0	0	0	0	$-\frac{5\sqrt{2310}}{2178}$	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	$\frac{5\sqrt{385}}{363}$	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	$-\frac{25\sqrt{231}}{1089}$	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	$\frac{25\sqrt{462}}{2178}$	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	$-\frac{5\sqrt{154}}{726}$	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	$\frac{10\sqrt{11}}{121}$	0	0	0	0	0	0	0	0
		$-\frac{5\sqrt{154}}{726}$	0	0	0	0	0	0	0	$-\frac{20\sqrt{231}}{363}$	0	0	0	0	0	0	0
		0	$\frac{25\sqrt{462}}{2178}$	0	0	0	0	0	0	0	$\frac{10\sqrt{1155}}{363}$	0	0	0	0	0	0
		0	0	$-\frac{25\sqrt{231}}{1089}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$\frac{5\sqrt{385}}{363}$	0	0	0	0	0	0	0	$-\frac{10\sqrt{1155}}{363}$	0	0	0	0
		0	0	0	0	$-\frac{5\sqrt{2310}}{2178}$	0	0	0	0	0	0	0	$\frac{20\sqrt{231}}{363}$	0	0	0
		0	0	0	0	0	0	$\frac{5\sqrt{66}}{2178}$	0	0	0	0	0	0	0	$-\frac{10\sqrt{11}}{121}$	0

continued ...

Table 10

No.	multipole	matrix													
879	$\mathbb{Q}_{6,-2}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{10\sqrt{33}}{1089}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	$-\frac{10\sqrt{462}}{1089}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$\frac{10\sqrt{154}}{363}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$-\frac{10\sqrt{1155}}{1089}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$\frac{10\sqrt{231}}{1089}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{10\sqrt{330}}{363}$	0	0	0	0	0	0	0
		$-\frac{10\sqrt{231}}{1089}$	0	0	0	0	0	0	$-\frac{10\sqrt{154}}{121}$	0	0	0	0	0	0
		0	$\frac{10\sqrt{1155}}{1089}$	0	0	0	0	0	0	$\frac{10\sqrt{462}}{363}$	0	0	0	0	0
		0	0	$-\frac{10\sqrt{154}}{363}$	0	0	0	0	0	0	$\frac{10\sqrt{462}}{363}$	0	0	0	0
		0	0	0	$\frac{10\sqrt{462}}{1089}$	0	0	0	0	0	0	$-\frac{10\sqrt{154}}{121}$	0	0	0
		0	0	0	0	$-\frac{10\sqrt{33}}{1089}$	0	0	0	0	0	0	$\frac{10\sqrt{330}}{363}$	0	0

continued ...

Table 10

No.	multipole	matrix											
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{10\sqrt{55}}{363}$	0	0	0	0	0
		0	0	0	0	0	0	0	$-\frac{5\sqrt{770}}{363}$	0	0	0	0
		0	0	0	0	0	0	0	0	$\frac{5\sqrt{462}}{363}$	0	0	0
881	$\mathbb{Q}_{6,-4}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{10\sqrt{165}}{121}$	0	0	0	0	0
		$-\frac{5\sqrt{462}}{363}$	0	0	0	0	0	0	$-\frac{10\sqrt{77}}{121}$	0	0	0	0
		0	$\frac{5\sqrt{770}}{363}$	0	0	0	0	0	0	$-\frac{10\sqrt{77}}{121}$	0	0	0
		0	0	$-\frac{10\sqrt{55}}{363}$	0	0	0	0	0	0	$\frac{10\sqrt{165}}{121}$	0	0

continued ...

Table 10

No.	multipole	matrix													
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{5\sqrt{5}}{33}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	$-\frac{5\sqrt{7}}{33}$	0	0	0	0	0	0
882	$\mathbb{Q}_{6,-5}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{10\sqrt{2}}{11}$	0	0	0	0	0	0	0
		$-\frac{5\sqrt{7}}{33}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	$\frac{5\sqrt{5}}{33}$	0	0	0	0	0	0	$-\frac{10\sqrt{2}}{11}$	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix													
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{10\sqrt{3}}{33}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{10\sqrt{2}}{11}$	0	0	0	0	0	0	0
		$-\frac{10\sqrt{3}}{33}$	0	0	0	0	0	0	$\frac{10\sqrt{2}}{11}$	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix													
884	$Q_{0,0}^{(1,1;a)}$	$-\frac{4\sqrt{3}}{3}$	0	0	0	0	0	0	0	0	0	0	0	0	
		0	$-\frac{4\sqrt{3}}{3}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$-\frac{4\sqrt{3}}{3}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$-\frac{4\sqrt{3}}{3}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{4\sqrt{3}}{3}$	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$-\frac{4\sqrt{3}}{3}$	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\sqrt{3}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	$\sqrt{3}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$\sqrt{3}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$\sqrt{3}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$\sqrt{3}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	$\sqrt{3}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\sqrt{3}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\sqrt{3}$

continued ...

Table 10

No.	multipole	matrix														
885	$Q_{2,2}^{(1,1;a)}$	0	0	$\frac{9\sqrt{35}}{49}$	0	0	0	0	0	$-\frac{4\sqrt{105}}{147}$	0	0	0	0		
		0	0	0	$\frac{27\sqrt{7}}{49}$	0	0	0	0	0	$-\frac{16\sqrt{21}}{147}$	0	0	0	0	
		0	0	0	0	$\frac{27\sqrt{7}}{49}$	0	0	0	0	0	$-\frac{4\sqrt{70}}{49}$	0	0	0	
		0	0	0	0	0	$\frac{9\sqrt{35}}{49}$	0	0	0	0	0	$-\frac{8\sqrt{210}}{147}$	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{4\sqrt{15}}{21}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	$\frac{4\sqrt{15}}{21}$	0	0	0	0	0	0	$-\frac{\sqrt{6}}{7}$	0	0	0	0	0	0
		0	0	$\frac{8\sqrt{210}}{147}$	0	0	0	0	0	0	$-\frac{3\sqrt{70}}{49}$	0	0	0	0	0
		0	0	0	$\frac{4\sqrt{70}}{49}$	0	0	0	0	0	0	$-\frac{2\sqrt{210}}{49}$	0	0	0	0
		0	0	0	0	$\frac{16\sqrt{21}}{147}$	0	0	0	0	0	0	$-\frac{2\sqrt{210}}{49}$	0	0	0
		0	0	0	0	0	$\frac{4\sqrt{105}}{147}$	0	0	0	0	0	0	$-\frac{3\sqrt{70}}{49}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{6}}{7}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix														
886	$Q_{2,1}^{(1,1;a)}$	0	$-\frac{9\sqrt{70}}{49}$	0	0	0	0	0	0	$\frac{10\sqrt{7}}{49}$	0	0	0	0		
		0	0	$-\frac{18\sqrt{7}}{49}$	0	0	0	0	0	0	$\frac{22\sqrt{21}}{147}$	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{42}}{21}$	0	0	0	
		0	0	0	0	$\frac{18\sqrt{7}}{49}$	0	0	0	0	0	0	$\frac{2\sqrt{70}}{49}$	0	0	
		0	0	0	0	0	$\frac{9\sqrt{70}}{49}$	0	0	0	0	0	0	$-\frac{2\sqrt{105}}{147}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{10\sqrt{3}}{21}$	
		$-\frac{10\sqrt{3}}{21}$	0	0	0	0	0	0	$\frac{3\sqrt{2}}{7}$	0	0	0	0	0	0	0
		0	$-\frac{2\sqrt{105}}{147}$	0	0	0	0	0	0	$\frac{4\sqrt{42}}{49}$	0	0	0	0	0	0
		0	0	$\frac{2\sqrt{70}}{49}$	0	0	0	0	0	0	$\frac{\sqrt{210}}{49}$	0	0	0	0	0
		0	0	0	$\frac{2\sqrt{42}}{21}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{22\sqrt{21}}{147}$	0	0	0	0	0	0	$-\frac{\sqrt{210}}{49}$	0	0	0
		0	0	0	0	0	$\frac{10\sqrt{7}}{49}$	0	0	0	0	0	0	$-\frac{4\sqrt{42}}{49}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{3\sqrt{2}}{7}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix													
887	$Q_{2,0}^{(1,1;a)}$	$\frac{15\sqrt{21}}{49}$	0	0	0	0	0	0	$-\frac{10\sqrt{14}}{49}$	0	0	0	0	0	0
		0	$-\frac{3\sqrt{21}}{49}$	0	0	0	0	0	0	$-\frac{2\sqrt{210}}{49}$	0	0	0	0	0
		0	0	$-\frac{12\sqrt{21}}{49}$	0	0	0	0	0	0	$-\frac{4\sqrt{7}}{49}$	0	0	0	0
		0	0	0	$-\frac{12\sqrt{21}}{49}$	0	0	0	0	0	0	$\frac{4\sqrt{7}}{49}$	0	0	0
		0	0	0	0	$-\frac{3\sqrt{21}}{49}$	0	0	0	0	0	0	$\frac{2\sqrt{210}}{49}$	0	0
		0	0	0	0	0	$\frac{15\sqrt{21}}{49}$	0	0	0	0	0	0	$\frac{10\sqrt{14}}{49}$	0
		0	0	0	0	0	0	$-\frac{\sqrt{21}}{7}$	0	0	0	0	0	0	0
		$-\frac{10\sqrt{14}}{49}$	0	0	0	0	0	0	$-\frac{\sqrt{21}}{49}$	0	0	0	0	0	0
		0	$-\frac{2\sqrt{210}}{49}$	0	0	0	0	0	0	$\frac{3\sqrt{21}}{49}$	0	0	0	0	0
		0	0	$-\frac{4\sqrt{7}}{49}$	0	0	0	0	0	0	$\frac{5\sqrt{21}}{49}$	0	0	0	0
		0	0	0	$\frac{4\sqrt{7}}{49}$	0	0	0	0	0	0	$\frac{5\sqrt{21}}{49}$	0	0	0
		0	0	0	0	$\frac{2\sqrt{210}}{49}$	0	0	0	0	0	0	$\frac{3\sqrt{21}}{49}$	0	0
		0	0	0	0	0	$\frac{10\sqrt{14}}{49}$	0	0	0	0	0	0	$-\frac{\sqrt{21}}{49}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{21}}{7}$

continued ...

Table 10

No.	multipole	matrix													
888	$Q_{2,-1}^{(1,1;a)}$	0	0	0	0	0	0	$\frac{10\sqrt{3}}{21}$	0	0	0	0	0	0	0
		$\frac{9\sqrt{70}}{49}$	0	0	0	0	0	0	$\frac{2\sqrt{105}}{147}$	0	0	0	0	0	0
		0	$\frac{18\sqrt{7}}{49}$	0	0	0	0	0	0	$-\frac{2\sqrt{70}}{49}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{42}}{21}$	0	0	0	0
		0	0	0	$-\frac{18\sqrt{7}}{49}$	0	0	0	0	0	0	$-\frac{22\sqrt{21}}{147}$	0	0	0
		0	0	0	0	$-\frac{9\sqrt{70}}{49}$	0	0	0	0	0	0	$-\frac{10\sqrt{7}}{49}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{3\sqrt{2}}{7}$	0	0	0	0	0	0	0
		$-\frac{10\sqrt{7}}{49}$	0	0	0	0	0	0	$-\frac{4\sqrt{42}}{49}$	0	0	0	0	0	0
		0	$-\frac{22\sqrt{21}}{147}$	0	0	0	0	0	0	$-\frac{\sqrt{210}}{49}$	0	0	0	0	0
		0	0	$-\frac{2\sqrt{42}}{21}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$-\frac{2\sqrt{70}}{49}$	0	0	0	0	0	0	$\frac{\sqrt{210}}{49}$	0	0	0
		0	0	0	0	$\frac{2\sqrt{105}}{147}$	0	0	0	0	0	0	$\frac{4\sqrt{42}}{49}$	0	0
		0	0	0	0	0	$\frac{10\sqrt{3}}{21}$	0	0	0	0	0	0	$\frac{3\sqrt{2}}{7}$	0

continued ...

Table 10

No.	multipole	matrix												
890	$Q_{4,4}^{(1,1;a)}$	0	0	0	0	$-\frac{10\sqrt{770}}{231}$	0	0	0	0	0	$\frac{80\sqrt{77}}{2541}$	0	0
		0	0	0	0	0	$-\frac{10\sqrt{770}}{231}$	0	0	0	0	0	$\frac{32\sqrt{1155}}{2541}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{8\sqrt{330}}{363}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$-\frac{8\sqrt{330}}{363}$	0	0	0	0	0	$\frac{5\sqrt{110}}{363}$	0	0	0
		0	0	0	0	$-\frac{32\sqrt{1155}}{2541}$	0	0	0	0	0	$\frac{25\sqrt{462}}{2541}$	0	0
		0	0	0	0	0	$-\frac{80\sqrt{77}}{2541}$	0	0	0	0	0	$\frac{25\sqrt{462}}{2541}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{5\sqrt{110}}{363}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix														
891	$\mathbb{Q}_{4,3}^{(1,1;a)}$	0	0	0	$\frac{10\sqrt{770}}{231}$	0	0	0	0	0	$-\frac{20\sqrt{2310}}{2541}$	0	0	0		
		0	0	0	0	0	0	0	0	0	0	$-\frac{4\sqrt{770}}{363}$	0	0	0	
		0	0	0	0	0	$-\frac{10\sqrt{770}}{231}$	0	0	0	0	0	$\frac{4\sqrt{1155}}{2541}$	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{4\sqrt{165}}{121}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	$\frac{4\sqrt{165}}{121}$	0	0	0	0	0	0	$-\frac{10\sqrt{55}}{363}$	0	0	0	0	0
		0	0	0	$\frac{4\sqrt{1155}}{2541}$	0	0	0	0	0	$-\frac{20\sqrt{385}}{2541}$	0	0	0	0	0
		0	0	0	0	$-\frac{4\sqrt{770}}{363}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$-\frac{20\sqrt{2310}}{2541}$	0	0	0	0	0	0	$\frac{20\sqrt{385}}{2541}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{10\sqrt{55}}{363}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix														
892	$Q_{4,2}^{(1,1;a)}$	0	0	$-\frac{10\sqrt{55}}{77}$	0	0	0	0	0	$\frac{80\sqrt{165}}{2541}$	0	0	0	0		
		0	0	0	$\frac{50\sqrt{11}}{231}$	0	0	0	0	0	$\frac{40\sqrt{33}}{2541}$	0	0	0	0	
		0	0	0	0	$\frac{50\sqrt{11}}{231}$	0	0	0	0	0	$-\frac{68\sqrt{110}}{2541}$	0	0	0	
		0	0	0	0	0	$-\frac{10\sqrt{55}}{77}$	0	0	0	0	0	$-\frac{12\sqrt{330}}{847}$	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{8\sqrt{1155}}{847}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	$-\frac{8\sqrt{1155}}{847}$	0	0	0	0	0	0	$\frac{25\sqrt{462}}{2541}$	0	0	0	0	0	0
		0	0	$\frac{12\sqrt{330}}{847}$	0	0	0	0	0	0	$\frac{5\sqrt{110}}{2541}$	0	0	0	0	0
		0	0	0	$\frac{68\sqrt{110}}{2541}$	0	0	0	0	0	0	$-\frac{20\sqrt{330}}{2541}$	0	0	0	0
		0	0	0	0	$-\frac{40\sqrt{33}}{2541}$	0	0	0	0	0	0	$-\frac{20\sqrt{330}}{2541}$	0	0	0
		0	0	0	0	0	$-\frac{80\sqrt{165}}{2541}$	0	0	0	0	0	0	$\frac{5\sqrt{110}}{2541}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{25\sqrt{462}}{2541}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix														
893	$Q_{4,1}^{(1,1;a)}$	0	$\frac{20\sqrt{55}}{231}$	0	0	0	0	0	0	$-\frac{200\sqrt{22}}{2541}$	0	0	0	0		
		0	0	$-\frac{50\sqrt{22}}{231}$	0	0	0	0	0	0	$\frac{40\sqrt{66}}{2541}$	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	$\frac{20\sqrt{33}}{363}$	0	0	0	
		0	0	0	0	$\frac{50\sqrt{22}}{231}$	0	0	0	0	0	0	$\frac{4\sqrt{55}}{2541}$	0	0	
		0	0	0	0	0	$-\frac{20\sqrt{55}}{231}$	0	0	0	0	0	0	$-\frac{52\sqrt{330}}{2541}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{20\sqrt{462}}{2541}$	
		$\frac{20\sqrt{462}}{2541}$	0	0	0	0	0	0	$-\frac{50\sqrt{77}}{2541}$	0	0	0	0	0	0	0
		0	$-\frac{52\sqrt{330}}{2541}$	0	0	0	0	0	0	$\frac{50\sqrt{33}}{2541}$	0	0	0	0	0	0
		0	0	$\frac{4\sqrt{55}}{2541}$	0	0	0	0	0	0	$\frac{10\sqrt{165}}{847}$	0	0	0	0	0
		0	0	0	$\frac{20\sqrt{33}}{363}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{40\sqrt{66}}{2541}$	0	0	0	0	0	0	$-\frac{10\sqrt{165}}{847}$	0	0	0
		0	0	0	0	0	$-\frac{200\sqrt{22}}{2541}$	0	0	0	0	0	0	$-\frac{50\sqrt{33}}{2541}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{50\sqrt{77}}{2541}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix														
894	$Q_{4,0}^{(1,1;a)}$	$-\frac{10\sqrt{55}}{231}$	0	0	0	0	0	0	$\frac{40\sqrt{330}}{2541}$	0	0	0	0	0	0	
		0	$\frac{10\sqrt{55}}{77}$	0	0	0	0	0	0	$-\frac{160\sqrt{22}}{2541}$	0	0	0	0	0	
		0	0	$-\frac{20\sqrt{55}}{231}$	0	0	0	0	0	0	$-\frac{40\sqrt{165}}{2541}$	0	0	0	0	0
		0	0	0	$-\frac{20\sqrt{55}}{231}$	0	0	0	0	0	0	$\frac{40\sqrt{165}}{2541}$	0	0	0	0
		0	0	0	0	$\frac{10\sqrt{55}}{77}$	0	0	0	0	0	0	$\frac{160\sqrt{22}}{2541}$	0	0	
		0	0	0	0	0	$-\frac{10\sqrt{55}}{231}$	0	0	0	0	0	0	$-\frac{40\sqrt{330}}{2541}$	0	
		0	0	0	0	0	0	$\frac{5\sqrt{55}}{363}$	0	0	0	0	0	0	0	0
		$\frac{40\sqrt{330}}{2541}$	0	0	0	0	0	0	$-\frac{65\sqrt{55}}{2541}$	0	0	0	0	0	0	0
		0	$-\frac{160\sqrt{22}}{2541}$	0	0	0	0	0	0	$-\frac{5\sqrt{55}}{847}$	0	0	0	0	0	0
		0	0	$-\frac{40\sqrt{165}}{2541}$	0	0	0	0	0	0	$\frac{15\sqrt{55}}{847}$	0	0	0	0	0
		0	0	0	$\frac{40\sqrt{165}}{2541}$	0	0	0	0	0	0	$\frac{15\sqrt{55}}{847}$	0	0	0	0
		0	0	0	0	$\frac{160\sqrt{22}}{2541}$	0	0	0	0	0	0	$-\frac{5\sqrt{55}}{847}$	0	0	0
		0	0	0	0	0	$-\frac{40\sqrt{330}}{2541}$	0	0	0	0	0	0	$-\frac{65\sqrt{55}}{2541}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{5\sqrt{55}}{363}$	

continued ...

Table 10

No.	multipole	matrix													
895	$\mathbb{Q}_{4,-1}^{(1,1;a)}$	0	0	0	0	0	0	$-\frac{20\sqrt{462}}{2541}$	0	0	0	0	0	0	0
		$-\frac{20\sqrt{55}}{231}$	0	0	0	0	0	0	$\frac{52\sqrt{330}}{2541}$	0	0	0	0	0	0
		0	$\frac{50\sqrt{22}}{231}$	0	0	0	0	0	0	$-\frac{4\sqrt{55}}{2541}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$-\frac{20\sqrt{33}}{363}$	0	0	0	0
		0	0	0	$-\frac{50\sqrt{22}}{231}$	0	0	0	0	0	0	$-\frac{40\sqrt{66}}{2541}$	0	0	0
		0	0	0	0	$\frac{20\sqrt{55}}{231}$	0	0	0	0	0	0	$\frac{200\sqrt{22}}{2541}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{50\sqrt{77}}{2541}$	0	0	0	0	0	0	0
		$\frac{200\sqrt{22}}{2541}$	0	0	0	0	0	0	$-\frac{50\sqrt{33}}{2541}$	0	0	0	0	0	0
		0	$-\frac{40\sqrt{66}}{2541}$	0	0	0	0	0	0	$-\frac{10\sqrt{165}}{847}$	0	0	0	0	0
		0	0	$-\frac{20\sqrt{33}}{363}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$-\frac{4\sqrt{55}}{2541}$	0	0	0	0	0	0	$\frac{10\sqrt{165}}{847}$	0	0	0
		0	0	0	0	$\frac{52\sqrt{330}}{2541}$	0	0	0	0	0	0	$\frac{50\sqrt{33}}{2541}$	0	0
		0	0	0	0	0	$-\frac{20\sqrt{462}}{2541}$	0	0	0	0	0	0	$-\frac{50\sqrt{77}}{2541}$	0

continued ...

Table 10

No.	multipole	matrix													
896	$Q_{4,-2}^{(1,1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{8\sqrt{1155}}{847}$	0	0	0	0	0	0	0
		$-\frac{10\sqrt{55}}{77}$	0	0	0	0	0	0	$\frac{12\sqrt{330}}{847}$	0	0	0	0	0	0
		0	$\frac{50\sqrt{11}}{231}$	0	0	0	0	0	0	$\frac{68\sqrt{110}}{2541}$	0	0	0	0	0
		0	0	$\frac{50\sqrt{11}}{231}$	0	0	0	0	0	0	$-\frac{40\sqrt{33}}{2541}$	0	0	0	0
		0	0	0	$-\frac{10\sqrt{55}}{77}$	0	0	0	0	0	0	$-\frac{80\sqrt{165}}{2541}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{25\sqrt{462}}{2541}$	0	0	0	0	0	0	0
		$\frac{80\sqrt{165}}{2541}$	0	0	0	0	0	0	$\frac{5\sqrt{110}}{2541}$	0	0	0	0	0	0
		0	$\frac{40\sqrt{33}}{2541}$	0	0	0	0	0	0	$-\frac{20\sqrt{330}}{2541}$	0	0	0	0	0
		0	0	$-\frac{68\sqrt{110}}{2541}$	0	0	0	0	0	0	$-\frac{20\sqrt{330}}{2541}$	0	0	0	0
		0	0	0	$-\frac{12\sqrt{330}}{847}$	0	0	0	0	0	0	$\frac{5\sqrt{110}}{2541}$	0	0	0
		0	0	0	0	$\frac{8\sqrt{1155}}{847}$	0	0	0	0	0	0	$\frac{25\sqrt{462}}{2541}$	0	0

continued ...

Table 10

No.	multipole	matrix															
897	$\mathbb{Q}_{4,-3}^{(1,1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{4\sqrt{165}}{121}$	0	0	0	0	0	0	0	0	0
		$-\frac{10\sqrt{770}}{231}$	0	0	0	0	0	0	$-\frac{4\sqrt{1155}}{2541}$	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$\frac{4\sqrt{770}}{363}$	0	0	0	0	0	0	0
		0	0	$\frac{10\sqrt{770}}{231}$	0	0	0	0	0	0	$\frac{20\sqrt{2310}}{2541}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{10\sqrt{55}}{363}$	0	0	0	0	0	0	0	0	0
		$\frac{20\sqrt{2310}}{2541}$	0	0	0	0	0	0	$\frac{20\sqrt{385}}{2541}$	0	0	0	0	0	0	0	0
		0	$\frac{4\sqrt{770}}{363}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$-\frac{4\sqrt{1155}}{2541}$	0	0	0	0	0	0	$-\frac{20\sqrt{385}}{2541}$	0	0	0	0	0	0
		0	0	0	$-\frac{4\sqrt{165}}{121}$	0	0	0	0	0	0	0	$-\frac{10\sqrt{55}}{363}$	0	0	0	0

continued ...

Table 10

No.	multipole	matrix											
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{8\sqrt{330}}{363}$	0	0	0	0	0
		$-\frac{10\sqrt{770}}{231}$	0	0	0	0	0	0	$-\frac{32\sqrt{1155}}{2541}$	0	0	0	0
		0	$-\frac{10\sqrt{770}}{231}$	0	0	0	0	0	0	$-\frac{80\sqrt{77}}{2541}$	0	0	0
898	$\mathbb{Q}_{4,-4}^{(1,1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{5\sqrt{110}}{363}$	0	0	0	0	0
		$\frac{80\sqrt{77}}{2541}$	0	0	0	0	0	0	$\frac{25\sqrt{462}}{2541}$	0	0	0	0
		0	$\frac{32\sqrt{1155}}{2541}$	0	0	0	0	0	0	$\frac{25\sqrt{462}}{2541}$	0	0	0
		0	0	$\frac{8\sqrt{330}}{363}$	0	0	0	0	0	0	$\frac{5\sqrt{110}}{363}$	0	0

continued ...

Table 10

No.	multipole	matrix													
		0	0	0	0	0	0	0	0	$\frac{\sqrt{2}i}{2}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$\frac{\sqrt{6}i}{2}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$\sqrt{3}i$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	$\sqrt{5}i$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{30}i}{2}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{42}i}{2}$
899	$G_{1,1}^{(1,0;a)}$	$\frac{\sqrt{42}i}{2}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	$\frac{\sqrt{30}i}{2}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$\sqrt{5}i$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$\sqrt{3}i$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{\sqrt{6}i}{2}$	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$\frac{\sqrt{2}i}{2}$	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix														
900	$G_{1,0}^{(1,0;a)}$	0	0	0	0	0	0	0	$-\sqrt{3}i$	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	$-\sqrt{5}i$	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	$-\sqrt{6}i$	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	$-\sqrt{6}i$	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	$-\sqrt{5}i$	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$-\sqrt{3}i$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		$\sqrt{3}i$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	$\sqrt{5}i$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$\sqrt{6}i$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$\sqrt{6}i$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\sqrt{5}i$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$\sqrt{3}i$	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix														
901	$\mathbb{G}_{1,-1}^{(1,0;a)}$	0	0	0	0	0	0	$\frac{\sqrt{42}i}{2}$	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	$\frac{\sqrt{30}i}{2}$	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	$\sqrt{5}i$	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	$\sqrt{3}i$	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{6}i}{2}$	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{2}i}{2}$	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		$\frac{\sqrt{2}i}{2}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	$\frac{\sqrt{6}i}{2}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$\sqrt{3}i$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$\sqrt{5}i$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{\sqrt{30}i}{2}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$\frac{\sqrt{42}i}{2}$	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix												
		0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{2}i}{2}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{6}i}{2}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	$-\frac{3i}{2}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{7}i}{2}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
902	$\mathbb{G}_{3,3}^{(1,0;a)}$	0	0	$-\frac{\sqrt{7}i}{2}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	$-\frac{3i}{2}$	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{\sqrt{6}i}{2}$	0	0	0	0	0	0	0	0
		0	0	0	0	0	$-\frac{\sqrt{2}i}{2}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix													
		0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{3}i}{3}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{15}i}{3}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{2}i}{2}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{6}i}{6}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{21}i}{3}$
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
903	$G_{3,2}^{(1,0;a)}$	0	$\frac{\sqrt{21}i}{3}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$\frac{\sqrt{6}i}{6}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$-\frac{\sqrt{2}i}{2}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{\sqrt{15}i}{3}$	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$-\frac{2\sqrt{3}i}{3}$	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix													
		0	0	0	0	0	0	0	0	$-\sqrt{2}i$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{6}i}{3}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{3}i}{6}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{5}i}{2}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{30}i}{6}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{42}i}{6}$
904	$\mathbb{G}_{3,1}^{(1,0;a)}$	$-\frac{\sqrt{42}i}{6}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	$\frac{\sqrt{30}i}{6}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$\frac{\sqrt{5}i}{2}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$\frac{\sqrt{3}i}{6}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{\sqrt{6}i}{3}$	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$-\sqrt{2}i$	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix														
905	$\mathbb{G}_{3,0}^{(1,0;a)}$	0	0	0	0	0	0	0	$\sqrt{2}i$	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$-i$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$-i$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\sqrt{2}i$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		$-\sqrt{2}i$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	i	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	i	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$-\sqrt{2}i$	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix														
906	$\mathbb{G}_{3,-1}^{(1,0;a)}$	0	0	0	0	0	0	$-\frac{\sqrt{42i}}{6}$	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	$\frac{\sqrt{30i}}{6}$	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	$\frac{\sqrt{5i}}{2}$	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	$\frac{\sqrt{3i}}{6}$	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{6i}}{3}$	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	$-\sqrt{2i}$	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		$-\sqrt{2i}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	$-\frac{\sqrt{6i}}{3}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$\frac{\sqrt{3i}}{6}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$\frac{\sqrt{5i}}{2}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{\sqrt{30i}}{6}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$-\frac{\sqrt{42i}}{6}$	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix												
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{\sqrt{21}i}{3}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	$-\frac{\sqrt{6}i}{6}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	$\frac{\sqrt{2}i}{2}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	$\frac{\sqrt{15}i}{3}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{3}i}{3}$	0	0
907	$G_{3,-2}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		$-\frac{2\sqrt{3}i}{3}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	$-\frac{\sqrt{15}i}{3}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	$-\frac{\sqrt{2}i}{2}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	$\frac{\sqrt{6}i}{6}$	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{\sqrt{21}i}{3}$	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix											
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{\sqrt{7}i}{2}$	0	0	0	0	0
		0	0	0	0	0	0	0	$-\frac{3i}{2}$	0	0	0	0
		0	0	0	0	0	0	0	0	$-\frac{\sqrt{6}i}{2}$	0	0	0
		0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{2}i}{2}$	0	0
908	$\mathbb{G}_{3,-3}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		$-\frac{\sqrt{2}i}{2}$	0	0	0	0	0	0	0	0	0	0	0
		0	$-\frac{\sqrt{6}i}{2}$	0	0	0	0	0	0	0	0	0	0
		0	0	$-\frac{3i}{2}$	0	0	0	0	0	0	0	0	0
		0	0	0	$-\frac{\sqrt{7}i}{2}$	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix													
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{5\sqrt{35}i}{33}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{35i}{33}$
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
909	$\mathbb{G}_{5,5}^{(1,0;a)}$	0	0	0	0	$\frac{35i}{33}$	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$\frac{5\sqrt{35}i}{33}$	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix												
		0	0	0	0	0	0	0	0	0	0	$-\frac{5\sqrt{42}i}{33}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{70}i}{33}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{14\sqrt{5}i}{33}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
910	$\mathbb{G}_{5,4}^{(1,0;a)}$	0	0	0	$-\frac{14\sqrt{5}i}{33}$	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{\sqrt{70}i}{33}$	0	0	0	0	0	0	0	0
		0	0	0	0	0	$\frac{5\sqrt{42}i}{33}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix												
		0	0	0	0	0	0	0	0	0	$\frac{5\sqrt{35}i}{33}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{105}i}{33}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{70}i}{11}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{7\sqrt{10}i}{33}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
911	$\mathbb{G}_{5,3}^{(1,0;a)}$	0	0	$\frac{7\sqrt{10}i}{33}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	$-\frac{\sqrt{70}i}{11}$	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{\sqrt{105}i}{33}$	0	0	0	0	0	0	0	0
		0	0	0	0	0	$\frac{5\sqrt{35}i}{33}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix															
912	$G_{5,2}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	$-\frac{5\sqrt{210i}}{99}$	0	0	0	0		
		0	0	0	0	0	0	0	0	0	0	$\frac{10\sqrt{42i}}{99}$	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{35i}}{33}$	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{8\sqrt{105i}}{99}$	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{7\sqrt{30i}}{99}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	$-\frac{7\sqrt{30i}}{99}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$\frac{8\sqrt{105i}}{99}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$-\frac{2\sqrt{35i}}{33}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{10\sqrt{42i}}{99}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$\frac{5\sqrt{210i}}{99}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix														
913	$G_{5,1}^{(1,0;a)}$	0	0	0	0	0	0	0	0	$\frac{25\sqrt{2}i}{66}$	0	0	0	0		
		0	0	0	0	0	0	0	0	0	$-\frac{65\sqrt{6}i}{198}$	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	$\frac{5\sqrt{3}i}{99}$	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{5}i}{3}$	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{23\sqrt{30}i}{198}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{5\sqrt{42}i}{198}$	
		$\frac{5\sqrt{42}i}{198}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	$-\frac{23\sqrt{30}i}{198}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$\frac{\sqrt{5}i}{3}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$\frac{5\sqrt{3}i}{99}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{65\sqrt{6}i}{198}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$\frac{25\sqrt{2}i}{66}$	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix														
914	$\mathbb{G}_{5,0}^{(1,0;a)}$	0	0	0	0	0	0	0	$-\frac{5\sqrt{5}i}{33}$	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	$\frac{5\sqrt{3}i}{11}$	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	$-\frac{5\sqrt{10}i}{33}$	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	$-\frac{5\sqrt{10}i}{33}$	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	$\frac{5\sqrt{3}i}{11}$	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{5\sqrt{5}i}{33}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		$\frac{5\sqrt{5}i}{33}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	$-\frac{5\sqrt{3}i}{11}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$\frac{5\sqrt{10}i}{33}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$\frac{5\sqrt{10}i}{33}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{5\sqrt{3}i}{11}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$\frac{5\sqrt{5}i}{33}$	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix														
915	$G_{5,-1}^{(1,0;a)}$	0	0	0	0	0	0	$\frac{5\sqrt{42}i}{198}$	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	$-\frac{23\sqrt{30}i}{198}$	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	$\frac{\sqrt{5}i}{3}$	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	$\frac{5\sqrt{3}i}{99}$	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	$-\frac{65\sqrt{6}i}{198}$	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	$\frac{25\sqrt{2}i}{66}$	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		$\frac{25\sqrt{2}i}{66}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	$-\frac{65\sqrt{6}i}{198}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$\frac{5\sqrt{3}i}{99}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$\frac{\sqrt{5}i}{3}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{23\sqrt{30}i}{198}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$\frac{5\sqrt{42}i}{198}$	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix														
916	$G_{5,-2}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{7\sqrt{30}i}{99}$	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	$-\frac{8\sqrt{105}i}{99}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$\frac{2\sqrt{35}i}{33}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$\frac{10\sqrt{42}i}{99}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$-\frac{5\sqrt{210}i}{99}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		$\frac{5\sqrt{210}i}{99}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	$-\frac{10\sqrt{42}i}{99}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$-\frac{2\sqrt{35}i}{33}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$\frac{8\sqrt{105}i}{99}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{7\sqrt{30}i}{99}$	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix												
917	$G_{5,-3}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{7\sqrt{10}i}{33}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	$-\frac{\sqrt{70}i}{11}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	$-\frac{\sqrt{105}i}{33}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	$\frac{5\sqrt{35}i}{33}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		$\frac{5\sqrt{35}i}{33}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	$-\frac{\sqrt{105}i}{33}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	$-\frac{\sqrt{70}i}{11}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	$\frac{7\sqrt{10}i}{33}$	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix													
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{14\sqrt{5}i}{33}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	$-\frac{\sqrt{70}i}{33}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$-\frac{5\sqrt{42}i}{33}$	0	0	0	0	0
918	$G_{5,-4}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		$\frac{5\sqrt{42}i}{33}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	$\frac{\sqrt{70}i}{33}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$-\frac{14\sqrt{5}i}{33}$	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix																																																																																																																																																																																																																																																													
		0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	$\frac{35i}{33}$	0	0	0	0	0	0	0			0	0	0	0	0	0	0	$\frac{5\sqrt{35}i}{33}$	0	0	0	0	0	0	919	$G_{5,-5}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			$\frac{5\sqrt{35}i}{33}$	0	0	0	0	0	0	0	0	0	0	0	0	0			0	$\frac{35i}{33}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	$\frac{35i}{33}$	0	0	0	0	0	0	0			0	0	0	0	0	0	0	$\frac{5\sqrt{35}i}{33}$	0	0	0	0	0	0	919	$G_{5,-5}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			$\frac{5\sqrt{35}i}{33}$	0	0	0	0	0	0	0	0	0	0	0	0	0			0	$\frac{35i}{33}$	0	0	0	0	0	0	0	0	0	0	0	0																
		0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	$\frac{35i}{33}$	0	0	0	0	0	0	0			0	0	0	0	0	0	0	$\frac{5\sqrt{35}i}{33}$	0	0	0	0	0	0	919	$G_{5,-5}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			$\frac{5\sqrt{35}i}{33}$	0	0	0	0	0	0	0	0	0	0	0	0	0			0	$\frac{35i}{33}$	0	0	0	0	0	0	0	0	0	0	0	0																																
		0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	$\frac{35i}{33}$	0	0	0	0	0	0	0			0	0	0	0	0	0	0	$\frac{5\sqrt{35}i}{33}$	0	0	0	0	0	0	919	$G_{5,-5}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			$\frac{5\sqrt{35}i}{33}$	0	0	0	0	0	0	0	0	0	0	0	0	0			0	$\frac{35i}{33}$	0	0	0	0	0	0	0	0	0	0	0	0																																																
		0	0	0	0	0	0	$\frac{35i}{33}$	0	0	0	0	0	0	0			0	0	0	0	0	0	0	$\frac{5\sqrt{35}i}{33}$	0	0	0	0	0	0	919	$G_{5,-5}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			$\frac{5\sqrt{35}i}{33}$	0	0	0	0	0	0	0	0	0	0	0	0	0			0	$\frac{35i}{33}$	0	0	0	0	0	0	0	0	0	0	0	0																																																																
		0	0	0	0	0	0	0	$\frac{5\sqrt{35}i}{33}$	0	0	0	0	0	0	919	$G_{5,-5}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			$\frac{5\sqrt{35}i}{33}$	0	0	0	0	0	0	0	0	0	0	0	0	0			0	$\frac{35i}{33}$	0	0	0	0	0	0	0	0	0	0	0	0																																																																																
919	$G_{5,-5}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			$\frac{5\sqrt{35}i}{33}$	0	0	0	0	0	0	0	0	0	0	0	0	0			0	$\frac{35i}{33}$	0	0	0	0	0	0	0	0	0	0	0	0																																																																																																
		0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			$\frac{5\sqrt{35}i}{33}$	0	0	0	0	0	0	0	0	0	0	0	0	0			0	$\frac{35i}{33}$	0	0	0	0	0	0	0	0	0	0	0	0																																																																																																																
		0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			$\frac{5\sqrt{35}i}{33}$	0	0	0	0	0	0	0	0	0	0	0	0	0			0	$\frac{35i}{33}$	0	0	0	0	0	0	0	0	0	0	0	0																																																																																																																																
		0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			$\frac{5\sqrt{35}i}{33}$	0	0	0	0	0	0	0	0	0	0	0	0	0			0	$\frac{35i}{33}$	0	0	0	0	0	0	0	0	0	0	0	0																																																																																																																																																
		0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			$\frac{5\sqrt{35}i}{33}$	0	0	0	0	0	0	0	0	0	0	0	0	0			0	$\frac{35i}{33}$	0	0	0	0	0	0	0	0	0	0	0	0																																																																																																																																																																
		0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			$\frac{5\sqrt{35}i}{33}$	0	0	0	0	0	0	0	0	0	0	0	0	0			0	$\frac{35i}{33}$	0	0	0	0	0	0	0	0	0	0	0	0																																																																																																																																																																																
		0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			$\frac{5\sqrt{35}i}{33}$	0	0	0	0	0	0	0	0	0	0	0	0	0			0	$\frac{35i}{33}$	0	0	0	0	0	0	0	0	0	0	0	0																																																																																																																																																																																																
		0	0	0	0	0	0	0	0	0	0	0	0	0	0			$\frac{5\sqrt{35}i}{33}$	0	0	0	0	0	0	0	0	0	0	0	0	0			0	$\frac{35i}{33}$	0	0	0	0	0	0	0	0	0	0	0	0																																																																																																																																																																																																																
		$\frac{5\sqrt{35}i}{33}$	0	0	0	0	0	0	0	0	0	0	0	0	0			0	$\frac{35i}{33}$	0	0	0	0	0	0	0	0	0	0	0	0																																																																																																																																																																																																																																
		0	$\frac{35i}{33}$	0	0	0	0	0	0	0	0	0	0	0	0																																																																																																																																																																																																																																																

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Table 10

No.	multipole	matrix													
		0	0	0	0	0	0	0	0	0	$\frac{\sqrt{30}i}{45}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$\frac{4\sqrt{6}i}{45}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{5}i}{15}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{4\sqrt{15}i}{45}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{210}i}{45}$
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
920	$\mathbb{T}_{2,2}^{(1,0;a)}$	0	$\frac{\sqrt{210}i}{45}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$\frac{4\sqrt{15}i}{45}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$\frac{2\sqrt{5}i}{15}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{4\sqrt{6}i}{45}$	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$\frac{\sqrt{30}i}{45}$	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix													
		0	0	0	0	0	0	0	0	$-\frac{\sqrt{2}i}{6}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$-\frac{11\sqrt{6}i}{90}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$-\frac{7\sqrt{3}i}{45}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{5}i}{15}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{30}i}{90}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{42}i}{18}$
921	$\mathbb{T}_{2,1}^{(1,0;a)}$	$-\frac{\sqrt{42}i}{18}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	$-\frac{\sqrt{30}i}{90}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$\frac{\sqrt{5}i}{15}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$\frac{7\sqrt{3}i}{45}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{11\sqrt{6}i}{90}$	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$\frac{\sqrt{2}i}{6}$	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix														
922	$\mathbb{T}_{2,0}^{(1,0;a)}$	0	0	0	0	0	0	0	$\frac{i}{3}$	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	$\frac{\sqrt{15}i}{15}$	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	$\frac{\sqrt{2}i}{15}$	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{2}i}{15}$	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{15}i}{15}$	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{i}{3}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		$-\frac{i}{3}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	$-\frac{\sqrt{15}i}{15}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$-\frac{\sqrt{2}i}{15}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$\frac{\sqrt{2}i}{15}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{\sqrt{15}i}{15}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$\frac{i}{3}$	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix														
923	$\mathbb{T}_{2,-1}^{(1,0;a)}$	0	0	0	0	0	0	$-\frac{\sqrt{42i}}{18}$	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	$-\frac{\sqrt{30i}}{90}$	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	$\frac{\sqrt{5i}}{15}$	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	$\frac{7\sqrt{3i}}{45}$	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	$\frac{11\sqrt{6i}}{90}$	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{2i}}{6}$	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		$-\frac{\sqrt{2i}}{6}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	$-\frac{11\sqrt{6i}}{90}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$-\frac{7\sqrt{3i}}{45}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$-\frac{\sqrt{5i}}{15}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{\sqrt{30i}}{90}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$\frac{\sqrt{42i}}{18}$	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix														
925	$\mathbb{T}_{4,4}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{7}i}{33}$	0	0		
		0	0	0	0	0	0	0	0	0	0	0	$-\frac{4\sqrt{105}i}{165}$	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{7\sqrt{30}i}{165}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	$-\frac{7\sqrt{30}i}{165}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{4\sqrt{105}i}{165}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$-\frac{2\sqrt{7}i}{33}$	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix												
		0	0	0	0	0	0	0	0	0	$\frac{\sqrt{210i}}{66}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	$\frac{7\sqrt{70i}}{330}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{105i}}{330}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{7\sqrt{15i}}{110}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
926	$\mathbb{T}_{4,3}^{(1,0;a)}$	0	0	$\frac{7\sqrt{15i}}{110}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	$\frac{\sqrt{105i}}{330}$	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{7\sqrt{70i}}{330}$	0	0	0	0	0	0	0	0
		0	0	0	0	0	$-\frac{\sqrt{210i}}{66}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix													
		0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{15}i}{33}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{3}i}{33}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	$\frac{17\sqrt{10}i}{330}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{3\sqrt{30}i}{110}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{105}i}{55}$
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
927	$\mathbb{T}_{4,2}^{(1,0;a)}$	0	$-\frac{\sqrt{105}i}{55}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$\frac{3\sqrt{30}i}{110}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$\frac{17\sqrt{10}i}{330}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{\sqrt{3}i}{33}$	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$-\frac{2\sqrt{15}i}{33}$	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix													
		0	0	0	0	0	0	0	0	$\frac{5\sqrt{2}i}{33}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{6}i}{33}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$-\frac{7\sqrt{3}i}{66}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{5}i}{330}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{13\sqrt{30}i}{330}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{42}i}{66}$
928	$\mathbb{T}_{4,1}^{(1,0;a)}$	$\frac{\sqrt{42}i}{66}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	$-\frac{13\sqrt{30}i}{330}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$\frac{\sqrt{5}i}{330}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$\frac{7\sqrt{3}i}{66}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{\sqrt{6}i}{33}$	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$-\frac{5\sqrt{2}i}{33}$	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix															
929	$\mathbb{T}_{4,0}^{(1,0;a)}$	0	0	0	0	0	0	0	$-\frac{\sqrt{30}i}{33}$	0	0	0	0	0	0		
		0	0	0	0	0	0	0	0	0	$\frac{4\sqrt{2}i}{33}$	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{15}i}{33}$	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{15}i}{33}$	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{4\sqrt{2}i}{33}$	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{30}i}{33}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		$\frac{\sqrt{30}i}{33}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	$-\frac{4\sqrt{2}i}{33}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$-\frac{\sqrt{15}i}{33}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$\frac{\sqrt{15}i}{33}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{4\sqrt{2}i}{33}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$-\frac{\sqrt{30}i}{33}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix															
930	$\mathbb{T}_{4,-1}^{(1,0;a)}$	0	0	0	0	0	0	$\frac{\sqrt{42i}}{66}$	0	0	0	0	0	0	0		
		0	0	0	0	0	0	0	$-\frac{13\sqrt{30i}}{330}$	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	$\frac{\sqrt{5i}}{330}$	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	$\frac{7\sqrt{3i}}{66}$	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{6i}}{33}$	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	$-\frac{5\sqrt{2i}}{33}$	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		$\frac{5\sqrt{2i}}{33}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	$-\frac{\sqrt{6i}}{33}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$-\frac{7\sqrt{3i}}{66}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$-\frac{\sqrt{5i}}{330}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{13\sqrt{30i}}{330}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$-\frac{\sqrt{42i}}{66}$	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix											
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$\frac{7\sqrt{15}i}{110}$	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{\sqrt{105}i}{330}$	0	0	0	0	0
		0	0	0	0	0	0	0	$-\frac{7\sqrt{70}i}{330}$	0	0	0	0
		0	0	0	0	0	0	0	0	$-\frac{\sqrt{210}i}{66}$	0	0	0
932	$\mathbb{T}_{4,-3}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		$\frac{\sqrt{210}i}{66}$	0	0	0	0	0	0	0	0	0	0	0
		0	$\frac{7\sqrt{70}i}{330}$	0	0	0	0	0	0	0	0	0	0
		0	0	$-\frac{\sqrt{105}i}{330}$	0	0	0	0	0	0	0	0	0
		0	0	0	$-\frac{7\sqrt{15}i}{110}$	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix																																																																																																																																																																																																																																													
		0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	$\frac{7\sqrt{30}i}{165}$	0	0	0	0	0	0	0			0	0	0	0	0	0	0	$\frac{4\sqrt{105}i}{165}$	0	0	0	0	0	0			0	0	0	0	0	0	0	0	$\frac{2\sqrt{7}i}{33}$	0	0	0	0	0	933	$\mathbb{T}_{4,-4}^{(1,0;\alpha)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			$\frac{2\sqrt{7}i}{33}$	0	0	0	0	0	0	0	0	0	0	0	0	0			0	$\frac{4\sqrt{105}i}{165}$	0	0	0	0	0	0	0	0	0	0	0	0			0	0	$\frac{7\sqrt{30}i}{165}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	$\frac{7\sqrt{30}i}{165}$	0	0	0	0	0	0	0			0	0	0	0	0	0	0	$\frac{4\sqrt{105}i}{165}$	0	0	0	0	0	0			0	0	0	0	0	0	0	0	$\frac{2\sqrt{7}i}{33}$	0	0	0	0	0	933	$\mathbb{T}_{4,-4}^{(1,0;\alpha)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			$\frac{2\sqrt{7}i}{33}$	0	0	0	0	0	0	0	0	0	0	0	0	0			0	$\frac{4\sqrt{105}i}{165}$	0	0	0	0	0	0	0	0	0	0	0	0			0	0	$\frac{7\sqrt{30}i}{165}$	0	0	0	0	0	0	0	0	0	0	0																
		0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	$\frac{7\sqrt{30}i}{165}$	0	0	0	0	0	0	0			0	0	0	0	0	0	0	$\frac{4\sqrt{105}i}{165}$	0	0	0	0	0	0			0	0	0	0	0	0	0	0	$\frac{2\sqrt{7}i}{33}$	0	0	0	0	0	933	$\mathbb{T}_{4,-4}^{(1,0;\alpha)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			$\frac{2\sqrt{7}i}{33}$	0	0	0	0	0	0	0	0	0	0	0	0	0			0	$\frac{4\sqrt{105}i}{165}$	0	0	0	0	0	0	0	0	0	0	0	0			0	0	$\frac{7\sqrt{30}i}{165}$	0	0	0	0	0	0	0	0	0	0	0																																
		0	0	0	0	0	0	$\frac{7\sqrt{30}i}{165}$	0	0	0	0	0	0	0			0	0	0	0	0	0	0	$\frac{4\sqrt{105}i}{165}$	0	0	0	0	0	0			0	0	0	0	0	0	0	0	$\frac{2\sqrt{7}i}{33}$	0	0	0	0	0	933	$\mathbb{T}_{4,-4}^{(1,0;\alpha)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			$\frac{2\sqrt{7}i}{33}$	0	0	0	0	0	0	0	0	0	0	0	0	0			0	$\frac{4\sqrt{105}i}{165}$	0	0	0	0	0	0	0	0	0	0	0	0			0	0	$\frac{7\sqrt{30}i}{165}$	0	0	0	0	0	0	0	0	0	0	0																																																
		0	0	0	0	0	0	0	$\frac{4\sqrt{105}i}{165}$	0	0	0	0	0	0			0	0	0	0	0	0	0	0	$\frac{2\sqrt{7}i}{33}$	0	0	0	0	0	933	$\mathbb{T}_{4,-4}^{(1,0;\alpha)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			$\frac{2\sqrt{7}i}{33}$	0	0	0	0	0	0	0	0	0	0	0	0	0			0	$\frac{4\sqrt{105}i}{165}$	0	0	0	0	0	0	0	0	0	0	0	0			0	0	$\frac{7\sqrt{30}i}{165}$	0	0	0	0	0	0	0	0	0	0	0																																																																
		0	0	0	0	0	0	0	0	$\frac{2\sqrt{7}i}{33}$	0	0	0	0	0	933	$\mathbb{T}_{4,-4}^{(1,0;\alpha)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			$\frac{2\sqrt{7}i}{33}$	0	0	0	0	0	0	0	0	0	0	0	0	0			0	$\frac{4\sqrt{105}i}{165}$	0	0	0	0	0	0	0	0	0	0	0	0			0	0	$\frac{7\sqrt{30}i}{165}$	0	0	0	0	0	0	0	0	0	0	0																																																																																
933	$\mathbb{T}_{4,-4}^{(1,0;\alpha)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			$\frac{2\sqrt{7}i}{33}$	0	0	0	0	0	0	0	0	0	0	0	0	0			0	$\frac{4\sqrt{105}i}{165}$	0	0	0	0	0	0	0	0	0	0	0	0			0	0	$\frac{7\sqrt{30}i}{165}$	0	0	0	0	0	0	0	0	0	0	0																																																																																																
		0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			$\frac{2\sqrt{7}i}{33}$	0	0	0	0	0	0	0	0	0	0	0	0	0			0	$\frac{4\sqrt{105}i}{165}$	0	0	0	0	0	0	0	0	0	0	0	0			0	0	$\frac{7\sqrt{30}i}{165}$	0	0	0	0	0	0	0	0	0	0	0																																																																																																																
		0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			$\frac{2\sqrt{7}i}{33}$	0	0	0	0	0	0	0	0	0	0	0	0	0			0	$\frac{4\sqrt{105}i}{165}$	0	0	0	0	0	0	0	0	0	0	0	0			0	0	$\frac{7\sqrt{30}i}{165}$	0	0	0	0	0	0	0	0	0	0	0																																																																																																																																
		0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			$\frac{2\sqrt{7}i}{33}$	0	0	0	0	0	0	0	0	0	0	0	0	0			0	$\frac{4\sqrt{105}i}{165}$	0	0	0	0	0	0	0	0	0	0	0	0			0	0	$\frac{7\sqrt{30}i}{165}$	0	0	0	0	0	0	0	0	0	0	0																																																																																																																																																
		0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0			$\frac{2\sqrt{7}i}{33}$	0	0	0	0	0	0	0	0	0	0	0	0	0			0	$\frac{4\sqrt{105}i}{165}$	0	0	0	0	0	0	0	0	0	0	0	0			0	0	$\frac{7\sqrt{30}i}{165}$	0	0	0	0	0	0	0	0	0	0	0																																																																																																																																																																
		0	0	0	0	0	0	0	0	0	0	0	0	0	0			$\frac{2\sqrt{7}i}{33}$	0	0	0	0	0	0	0	0	0	0	0	0	0			0	$\frac{4\sqrt{105}i}{165}$	0	0	0	0	0	0	0	0	0	0	0	0			0	0	$\frac{7\sqrt{30}i}{165}$	0	0	0	0	0	0	0	0	0	0	0																																																																																																																																																																																
		$\frac{2\sqrt{7}i}{33}$	0	0	0	0	0	0	0	0	0	0	0	0	0			0	$\frac{4\sqrt{105}i}{165}$	0	0	0	0	0	0	0	0	0	0	0	0			0	0	$\frac{7\sqrt{30}i}{165}$	0	0	0	0	0	0	0	0	0	0	0																																																																																																																																																																																																
		0	$\frac{4\sqrt{105}i}{165}$	0	0	0	0	0	0	0	0	0	0	0	0			0	0	$\frac{7\sqrt{30}i}{165}$	0	0	0	0	0	0	0	0	0	0	0																																																																																																																																																																																																																
		0	0	$\frac{7\sqrt{30}i}{165}$	0	0	0	0	0	0	0	0	0	0	0																																																																																																																																																																																																																																

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Table 10

No.	multipole	matrix												
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{10\sqrt{231}i}{429}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
934	$\mathbb{T}_{6,6}^{(1,0;a)}$	0	0	0	0	0	$\frac{10\sqrt{231}i}{429}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix												
		0	0	0	0	0	0	0	0	0	0	0	$-\frac{35\sqrt{11}i}{429}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{5\sqrt{385}i}{429}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
935	$\mathbb{T}_{6,5}^{(1,0;a)}$	0	0	0	0	$-\frac{5\sqrt{385}i}{429}$	0	0	0	0	0	0	0	0
		0	0	0	0	0	$\frac{35\sqrt{11}i}{429}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix												
		0	0	0	0	0	0	0	0	0	0	$\frac{35\sqrt{6}i}{429}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	$-\frac{35\sqrt{10}i}{429}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{10\sqrt{35}i}{429}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
936	$\mathbb{T}_{6,4}^{(1,0;a)}$	0	0	0	$\frac{10\sqrt{35}i}{429}$	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{35\sqrt{10}i}{429}$	0	0	0	0	0	0	0	0
		0	0	0	0	0	$\frac{35\sqrt{6}i}{429}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix														
937	$\mathbb{T}_{6,3}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	$-\frac{35\sqrt{3}i}{429}$	0	0	0		
		0	0	0	0	0	0	0	0	0	0	$\frac{35i}{143}$	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	$-\frac{35\sqrt{6}i}{429}$	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{5\sqrt{42}i}{429}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$-\frac{5\sqrt{42}i}{429}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$\frac{35\sqrt{6}i}{429}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{35i}{143}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$\frac{35\sqrt{3}i}{429}$	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix															
938	$\mathbb{T}_{6,2}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	$\frac{70\sqrt{3}i}{1287}$	0	0	0	0		
		0	0	0	0	0	0	0	0	0	0	$-\frac{70\sqrt{15}i}{1287}$	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	$\frac{70\sqrt{2}i}{429}$	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{70\sqrt{6}i}{1287}$	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{10\sqrt{21}i}{1287}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	$\frac{10\sqrt{21}i}{1287}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$-\frac{70\sqrt{6}i}{1287}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$\frac{70\sqrt{2}i}{429}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{70\sqrt{15}i}{1287}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$\frac{70\sqrt{3}i}{1287}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix													
939	$\mathbb{T}_{6,1}^{(1,0;a)}$	0	0	0	0	0	0	0	0	$-\frac{35\sqrt{2}i}{858}$	0	0	0	0	
		0	0	0	0	0	0	0	0	0	$\frac{175\sqrt{6}i}{2574}$	0	0	0	
		0	0	0	0	0	0	0	0	0	0	$-\frac{175\sqrt{3}i}{1287}$	0	0	
		0	0	0	0	0	0	0	0	0	0	0	$\frac{35\sqrt{5}i}{429}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{35\sqrt{30}i}{2574}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{5\sqrt{42}i}{2574}$
		$-\frac{5\sqrt{42}i}{2574}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	$\frac{35\sqrt{30}i}{2574}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$-\frac{35\sqrt{5}i}{429}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$\frac{175\sqrt{3}i}{1287}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{175\sqrt{6}i}{2574}$	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$\frac{35\sqrt{2}i}{858}$	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0		

continued ...

Table 10

No.	multipole	matrix															
940	$\mathbb{T}_{6,0}^{(1,0;a)}$	0	0	0	0	0	0	0	$\frac{5\sqrt{7}i}{429}$	0	0	0	0	0	0		
		0	0	0	0	0	0	0	0	0	$-\frac{5\sqrt{105}i}{429}$	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	$\frac{25\sqrt{14}i}{429}$	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	$-\frac{25\sqrt{14}i}{429}$	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{5\sqrt{105}i}{429}$	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{5\sqrt{7}i}{429}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		$-\frac{5\sqrt{7}i}{429}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	$\frac{5\sqrt{105}i}{429}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$-\frac{25\sqrt{14}i}{429}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$\frac{25\sqrt{14}i}{429}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{5\sqrt{105}i}{429}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$\frac{5\sqrt{7}i}{429}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix														
941	$\mathbb{T}_{6,-1}^{(1,0;a)}$	0	0	0	0	0	0	$-\frac{5\sqrt{42i}}{2574}$	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	$\frac{35\sqrt{30i}}{2574}$	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	$-\frac{35\sqrt{5i}}{429}$	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	$\frac{175\sqrt{3i}}{1287}$	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	$-\frac{175\sqrt{6i}}{2574}$	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	$\frac{35\sqrt{2i}}{858}$	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		$-\frac{35\sqrt{2i}}{858}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	$\frac{175\sqrt{6i}}{2574}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$-\frac{175\sqrt{3i}}{1287}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$\frac{35\sqrt{5i}}{429}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{35\sqrt{30i}}{2574}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$\frac{5\sqrt{42i}}{2574}$	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix													
942	$\mathbb{T}_{6,-2}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{10\sqrt{21}i}{1287}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	$\frac{70\sqrt{6}i}{1287}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$-\frac{70\sqrt{2}i}{429}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$\frac{70\sqrt{15}i}{1287}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$-\frac{70\sqrt{3}i}{1287}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		$-\frac{70\sqrt{3}i}{1287}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	$\frac{70\sqrt{15}i}{1287}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$-\frac{70\sqrt{2}i}{429}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$\frac{70\sqrt{6}i}{1287}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{10\sqrt{21}i}{1287}$	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix												
943	$\mathbb{T}_{6,-3}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{5\sqrt{42}i}{429}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	$\frac{35\sqrt{6}i}{429}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	$-\frac{35i}{143}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	$\frac{35\sqrt{3}i}{429}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		$-\frac{35\sqrt{3}i}{429}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	$\frac{35i}{143}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	$-\frac{35\sqrt{6}i}{429}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	$\frac{5\sqrt{42}i}{429}$	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix													
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{10\sqrt{35}i}{429}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	$\frac{35\sqrt{10}i}{429}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$-\frac{35\sqrt{6}i}{429}$	0	0	0	0	0
944	$\mathbb{T}_{6,-4}^{(1,0;\alpha)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		$-\frac{35\sqrt{6}i}{429}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	$\frac{35\sqrt{10}i}{429}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$-\frac{10\sqrt{35}i}{429}$	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix													
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{5\sqrt{385}i}{429}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{35\sqrt{11}i}{429}$	0	0	0	0	0	0	0
945	$\mathbb{T}_{6,-5}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		$-\frac{35\sqrt{11}i}{429}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	$\frac{5\sqrt{385}i}{429}$	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix											
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{10\sqrt{231}i}{429}$	0	0	0	0	0
946	$\mathbb{T}_{6,-6}^{(1,0;\alpha)}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		$-\frac{10\sqrt{231}i}{429}$	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix													
947	$M_{1,1}^{(a)}$	0	$-\frac{4\sqrt{10}}{7}$	0	0	0	0	0	0	$-\frac{1}{7}$	0	0	0	0	
		0	0	$-\frac{16}{7}$	0	0	0	0	0	0	$-\frac{\sqrt{3}}{7}$	0	0	0	0
		0	0	0	$-\frac{12\sqrt{2}}{7}$	0	0	0	0	0	0	$-\frac{\sqrt{6}}{7}$	0	0	0
		0	0	0	0	$-\frac{16}{7}$	0	0	0	0	0	0	$-\frac{\sqrt{10}}{7}$	0	0
		0	0	0	0	0	$-\frac{4\sqrt{10}}{7}$	0	0	0	0	0	0	$-\frac{\sqrt{15}}{7}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{21}}{7}$
		$\frac{\sqrt{21}}{7}$	0	0	0	0	0	0	$-\frac{3\sqrt{14}}{7}$	0	0	0	0	0	0
		0	$\frac{\sqrt{15}}{7}$	0	0	0	0	0	0	$-\frac{6\sqrt{6}}{7}$	0	0	0	0	0
		0	0	$\frac{\sqrt{10}}{7}$	0	0	0	0	0	0	$-\frac{3\sqrt{30}}{7}$	0	0	0	0
		0	0	0	$\frac{\sqrt{6}}{7}$	0	0	0	0	0	0	$-\frac{12\sqrt{2}}{7}$	0	0	0
		0	0	0	0	$\frac{\sqrt{3}}{7}$	0	0	0	0	0	0	$-\frac{3\sqrt{30}}{7}$	0	0
		0	0	0	0	0	$\frac{1}{7}$	0	0	0	0	0	0	$-\frac{6\sqrt{6}}{7}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{3\sqrt{14}}{7}$
		0	0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix														
948	$M_{1,0}^{(a)}$	$\frac{20}{7}$	0	0	0	0	0	0	$\frac{\sqrt{6}}{7}$	0	0	0	0	0	0	
		0	$\frac{12}{7}$	0	0	0	0	0	0	$\frac{\sqrt{10}}{7}$	0	0	0	0	0	
		0	0	$\frac{4}{7}$	0	0	0	0	0	0	$\frac{2\sqrt{3}}{7}$	0	0	0	0	
		0	0	0	$-\frac{4}{7}$	0	0	0	0	0	0	$\frac{2\sqrt{3}}{7}$	0	0	0	
		0	0	0	0	$-\frac{12}{7}$	0	0	0	0	0	0	$\frac{\sqrt{10}}{7}$	0	0	
		0	0	0	0	0	$-\frac{20}{7}$	0	0	0	0	0	0	$\frac{\sqrt{6}}{7}$	0	
		0	0	0	0	0	0	3	0	0	0	0	0	0	0	
		$\frac{\sqrt{6}}{7}$	0	0	0	0	0	0	$\frac{15}{7}$	0	0	0	0	0	0	0
		0	$\frac{\sqrt{10}}{7}$	0	0	0	0	0	0	$\frac{9}{7}$	0	0	0	0	0	0
		0	0	$\frac{2\sqrt{3}}{7}$	0	0	0	0	0	0	$\frac{3}{7}$	0	0	0	0	0
		0	0	0	$\frac{2\sqrt{3}}{7}$	0	0	0	0	0	0	$-\frac{3}{7}$	0	0	0	0
		0	0	0	0	$\frac{\sqrt{10}}{7}$	0	0	0	0	0	0	$-\frac{9}{7}$	0	0	0
		0	0	0	0	0	$\frac{\sqrt{6}}{7}$	0	0	0	0	0	0	$-\frac{15}{7}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	-3

continued ...

Table 10

No.	multipole	matrix													
949	$M_{1,-1}^{(a)}$	0	0	0	0	0	0	$-\frac{\sqrt{21}}{7}$	0	0	0	0	0	0	0
		$\frac{4\sqrt{10}}{7}$	0	0	0	0	0	0	0	$-\frac{\sqrt{15}}{7}$	0	0	0	0	0
		0	$\frac{16}{7}$	0	0	0	0	0	0	0	$-\frac{\sqrt{10}}{7}$	0	0	0	0
		0	0	$\frac{12\sqrt{2}}{7}$	0	0	0	0	0	0	0	$-\frac{\sqrt{6}}{7}$	0	0	0
		0	0	0	$\frac{16}{7}$	0	0	0	0	0	0	0	$-\frac{\sqrt{3}}{7}$	0	0
		0	0	0	0	$\frac{4\sqrt{10}}{7}$	0	0	0	0	0	0	0	$-\frac{1}{7}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	$\frac{3\sqrt{14}}{7}$	0	0	0	0	0	0
		$\frac{1}{7}$	0	0	0	0	0	0	0	$\frac{6\sqrt{6}}{7}$	0	0	0	0	0
		0	$\frac{\sqrt{3}}{7}$	0	0	0	0	0	0	0	$\frac{3\sqrt{30}}{7}$	0	0	0	0
		0	0	$\frac{\sqrt{6}}{7}$	0	0	0	0	0	0	0	$\frac{12\sqrt{2}}{7}$	0	0	0
		0	0	0	$\frac{\sqrt{10}}{7}$	0	0	0	0	0	0	0	$\frac{3\sqrt{30}}{7}$	0	0
		0	0	0	0	$\frac{\sqrt{15}}{7}$	0	0	0	0	0	0	0	$\frac{6\sqrt{6}}{7}$	0
		0	0	0	0	0	$\frac{\sqrt{21}}{7}$	0	0	0	0	0	0	0	$\frac{3\sqrt{14}}{7}$

continued ...

Table 10

No.	multipole	matrix													
950	$M_{3,3}^{(a)}$	0	0	0	$\frac{5\sqrt{2}}{7}$	0	0	0	0	0	$\frac{\sqrt{6}}{7}$	0	0	0	
		0	0	0	0	$\frac{4\sqrt{5}}{7}$	0	0	0	0	0	$\frac{3\sqrt{2}}{7}$	0	0	
		0	0	0	0	0	$\frac{5\sqrt{2}}{7}$	0	0	0	0	0	$\frac{3\sqrt{3}}{7}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{21}}{7}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	$-\frac{\sqrt{21}}{7}$	0	0	0	0	0	$\frac{2\sqrt{7}}{7}$	0	0	0	0	0
		0	0	0	$-\frac{3\sqrt{3}}{7}$	0	0	0	0	0	$\frac{8}{7}$	0	0	0	0
		0	0	0	0	$-\frac{3\sqrt{2}}{7}$	0	0	0	0	0	$\frac{4\sqrt{5}}{7}$	0	0	0
		0	0	0	0	0	$-\frac{\sqrt{6}}{7}$	0	0	0	0	0	$\frac{8}{7}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{7}}{7}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix												
		0	0	$-\frac{5\sqrt{3}}{7}$	0	0	0	0	0	$-\frac{4}{7}$	0	0	0	0
		0	0	0	$-\frac{\sqrt{15}}{7}$	0	0	0	0	0	$-\frac{2\sqrt{5}}{7}$	0	0	0
		0	0	0	0	$\frac{\sqrt{15}}{7}$	0	0	0	0	0	$-\frac{\sqrt{6}}{7}$	0	0
		0	0	0	0	0	$\frac{5\sqrt{3}}{7}$	0	0	0	0	0	$\frac{\sqrt{2}}{7}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{7}}{7}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
951	$M_{3,2}^{(a)}$	0	$\frac{2\sqrt{7}}{7}$	0	0	0	0	0	$-\frac{\sqrt{70}}{7}$	0	0	0	0	0
		0	0	$\frac{\sqrt{2}}{7}$	0	0	0	0	0	$-\frac{3\sqrt{6}}{7}$	0	0	0	0
		0	0	0	$-\frac{\sqrt{6}}{7}$	0	0	0	0	0	$-\frac{2\sqrt{2}}{7}$	0	0	0
		0	0	0	0	$-\frac{2\sqrt{5}}{7}$	0	0	0	0	0	$\frac{2\sqrt{2}}{7}$	0	0
		0	0	0	0	0	$-\frac{4}{7}$	0	0	0	0	0	$\frac{3\sqrt{6}}{7}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{70}}{7}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix															
952	$M_{3,1}^{(a)}$	0	$\frac{2\sqrt{15}}{7}$	0	0	0	0	0	0	$\frac{2\sqrt{6}}{7}$	0	0	0	0	0		
		0	0	$-\frac{\sqrt{6}}{7}$	0	0	0	0	0	0	$\frac{2\sqrt{2}}{7}$	0	0	0	0	0	
		0	0	0	$-\frac{4\sqrt{3}}{7}$	0	0	0	0	0	0	$-\frac{1}{7}$	0	0	0	0	
		0	0	0	0	$-\frac{\sqrt{6}}{7}$	0	0	0	0	0	0	$-\frac{\sqrt{15}}{7}$	0	0	0	
		0	0	0	0	0	$\frac{2\sqrt{15}}{7}$	0	0	0	0	0	0	$-\frac{\sqrt{10}}{7}$	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{14}}{7}$	0	
		$-\frac{\sqrt{14}}{7}$	0	0	0	0	0	0	$\frac{2\sqrt{21}}{7}$	0	0	0	0	0	0	0	0
		0	$\frac{\sqrt{10}}{7}$	0	0	0	0	0	0	$\frac{2}{7}$	0	0	0	0	0	0	0
		0	0	$\frac{\sqrt{15}}{7}$	0	0	0	0	0	0	$-\frac{2\sqrt{5}}{7}$	0	0	0	0	0	0
		0	0	0	$\frac{1}{7}$	0	0	0	0	0	0	$-\frac{4\sqrt{3}}{7}$	0	0	0	0	0
		0	0	0	0	$-\frac{2\sqrt{2}}{7}$	0	0	0	0	0	0	$-\frac{2\sqrt{5}}{7}$	0	0	0	0
		0	0	0	0	0	$-\frac{2\sqrt{6}}{7}$	0	0	0	0	0	0	$\frac{2}{7}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{21}}{7}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix														
953	$M_{3,0}^{(a)}$	$-\frac{5}{7}$	0	0	0	0	0	0	$-\frac{2\sqrt{6}}{7}$	0	0	0	0	0	0	
		0	1	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	$\frac{4}{7}$	0	0	0	0	0	0	0	$\frac{2\sqrt{3}}{7}$	0	0	0	0
		0	0	0	$-\frac{4}{7}$	0	0	0	0	0	0	0	$\frac{2\sqrt{3}}{7}$	0	0	0
		0	0	0	0	-1	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$\frac{5}{7}$	0	0	0	0	0	0	0	$-\frac{2\sqrt{6}}{7}$	0
		0	0	0	0	0	0	-1	0	0	0	0	0	0	0	0
		$-\frac{2\sqrt{6}}{7}$	0	0	0	0	0	0	0	$\frac{5}{7}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
		0	0	$\frac{2\sqrt{3}}{7}$	0	0	0	0	0	0	0	$\frac{3}{7}$	0	0	0	0
		0	0	0	$\frac{2\sqrt{3}}{7}$	0	0	0	0	0	0	0	$-\frac{3}{7}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	-1	0	0
		0	0	0	0	0	0	$-\frac{2\sqrt{6}}{7}$	0	0	0	0	0	0	$-\frac{5}{7}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	1

continued ...

Table 10

No.	multipole	matrix													
954	$M_{3,-1}^{(a)}$	0	0	0	0	0	0	$\frac{\sqrt{14}}{7}$	0	0	0	0	0	0	0
		$-\frac{2\sqrt{15}}{7}$	0	0	0	0	0	0	$-\frac{\sqrt{10}}{7}$	0	0	0	0	0	0
		0	$\frac{\sqrt{6}}{7}$	0	0	0	0	0	0	$-\frac{\sqrt{15}}{7}$	0	0	0	0	0
		0	0	$\frac{4\sqrt{3}}{7}$	0	0	0	0	0	0	$-\frac{1}{7}$	0	0	0	0
		0	0	0	$\frac{\sqrt{6}}{7}$	0	0	0	0	0	0	$\frac{2\sqrt{2}}{7}$	0	0	0
		0	0	0	0	$-\frac{2\sqrt{15}}{7}$	0	0	0	0	0	0	$\frac{2\sqrt{6}}{7}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{2\sqrt{21}}{7}$	0	0	0	0	0	0	0
		$-\frac{2\sqrt{6}}{7}$	0	0	0	0	0	0	$-\frac{2}{7}$	0	0	0	0	0	0
		0	$-\frac{2\sqrt{2}}{7}$	0	0	0	0	0	0	$\frac{2\sqrt{5}}{7}$	0	0	0	0	0
		0	0	$\frac{1}{7}$	0	0	0	0	0	0	$\frac{4\sqrt{3}}{7}$	0	0	0	0
		0	0	0	$\frac{\sqrt{15}}{7}$	0	0	0	0	0	0	$\frac{2\sqrt{5}}{7}$	0	0	0
		0	0	0	0	$\frac{\sqrt{10}}{7}$	0	0	0	0	0	0	$-\frac{2}{7}$	0	0
		0	0	0	0	0	$-\frac{\sqrt{14}}{7}$	0	0	0	0	0	0	$-\frac{2\sqrt{21}}{7}$	0

continued ...

Table 10

No.	multipole	matrix											
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{\sqrt{21}}{7}$	0	0	0	0	0
		$-\frac{5\sqrt{2}}{7}$	0	0	0	0	0	0	$\frac{3\sqrt{3}}{7}$	0	0	0	0
		0	$-\frac{4\sqrt{5}}{7}$	0	0	0	0	0	0	$\frac{3\sqrt{2}}{7}$	0	0	0
		0	0	$-\frac{5\sqrt{2}}{7}$	0	0	0	0	0	0	$\frac{\sqrt{6}}{7}$	0	0
956	$M_{3,-3}^{(a)}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{2\sqrt{7}}{7}$	0	0	0	0	0
		$-\frac{\sqrt{6}}{7}$	0	0	0	0	0	0	$-\frac{8}{7}$	0	0	0	0
		0	$-\frac{3\sqrt{2}}{7}$	0	0	0	0	0	0	$-\frac{4\sqrt{5}}{7}$	0	0	0
		0	0	$-\frac{3\sqrt{3}}{7}$	0	0	0	0	0	0	$-\frac{8}{7}$	0	0
		0	0	0	$-\frac{\sqrt{21}}{7}$	0	0	0	0	0	0	$-\frac{2\sqrt{7}}{7}$	0

continued ...

Table 10

No.	multipole	matrix													
957	$M_{5,5}^{(a)}$	0	0	0	0	0	$-\frac{20\sqrt{7}}{77}$	0	0	0	0	0	0	$-\frac{25\sqrt{42}}{231}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{5\sqrt{30}}{33}$
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$\frac{5\sqrt{30}}{33}$	0	0	0	0	0	0	$-\frac{10\sqrt{3}}{33}$	0
		0	0	0	0	0	$\frac{25\sqrt{42}}{231}$	0	0	0	0	0	0	$-\frac{20\sqrt{7}}{77}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{10\sqrt{3}}{33}$
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix													
		0	0	0	0	$\frac{10\sqrt{14}}{77}$	0	0	0	0	0	0	$\frac{10\sqrt{35}}{77}$	0	0
		0	0	0	0	0	$-\frac{10\sqrt{14}}{77}$	0	0	0	0	0	0	$\frac{10\sqrt{21}}{231}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{10\sqrt{6}}{33}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
958	$M_{5,4}^{(a)}$	0	0	0	$-\frac{10\sqrt{6}}{33}$	0	0	0	0	0	0	$\frac{5\sqrt{2}}{11}$	0	0	0
		0	0	0	0	$\frac{10\sqrt{21}}{231}$	0	0	0	0	0	0	$\frac{5\sqrt{210}}{231}$	0	0
		0	0	0	0	0	$\frac{10\sqrt{35}}{77}$	0	0	0	0	0	0	$-\frac{5\sqrt{210}}{231}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{5\sqrt{2}}{11}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix															
959	$M_{5,3}^{(a)}$	0	0	0	$-\frac{20\sqrt{14}}{231}$	0	0	0	0	0	0	$-\frac{25\sqrt{42}}{231}$	0	0	0		
		0	0	0	0	$\frac{20\sqrt{35}}{231}$	0	0	0	0	0	0	$\frac{5\sqrt{14}}{77}$	0	0	0	
		0	0	0	0	0	$-\frac{20\sqrt{14}}{231}$	0	0	0	0	0	0	$\frac{10\sqrt{21}}{77}$	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{10\sqrt{3}}{33}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	$\frac{10\sqrt{3}}{33}$	0	0	0	0	0	0	$-\frac{20}{33}$	0	0	0	0	0	0
		0	0	0	$-\frac{10\sqrt{21}}{77}$	0	0	0	0	0	0	$\frac{10\sqrt{7}}{231}$	0	0	0	0	0
		0	0	0	0	$-\frac{5\sqrt{14}}{77}$	0	0	0	0	0	0	$\frac{20\sqrt{35}}{231}$	0	0	0	0
		0	0	0	0	0	$\frac{25\sqrt{42}}{231}$	0	0	0	0	0	0	$\frac{10\sqrt{7}}{231}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{20}{33}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix														
960	$M_{5,2}^{(a)}$	0	0	$\frac{10\sqrt{21}}{231}$	0	0	0	0	0	$\frac{50\sqrt{7}}{231}$	0	0	0	0		
		0	0	0	$-\frac{10\sqrt{105}}{231}$	0	0	0	0	0	$-\frac{20\sqrt{35}}{231}$	0	0	0	0	
		0	0	0	0	$\frac{10\sqrt{105}}{231}$	0	0	0	0	0	$-\frac{10\sqrt{42}}{231}$	0	0	0	
		0	0	0	0	0	$-\frac{10\sqrt{21}}{231}$	0	0	0	0	0	$\frac{40\sqrt{14}}{231}$	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{10}{33}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	$-\frac{10}{33}$	0	0	0	0	0	0	$\frac{5\sqrt{10}}{33}$	0	0	0	0	0	0
		0	0	$\frac{40\sqrt{14}}{231}$	0	0	0	0	0	0	$-\frac{5\sqrt{42}}{77}$	0	0	0	0	0
		0	0	0	$-\frac{10\sqrt{42}}{231}$	0	0	0	0	0	0	$-\frac{20\sqrt{14}}{231}$	0	0	0	0
		0	0	0	0	$-\frac{20\sqrt{35}}{231}$	0	0	0	0	0	0	$\frac{20\sqrt{14}}{231}$	0	0	0
		0	0	0	0	0	$\frac{50\sqrt{7}}{231}$	0	0	0	0	0	0	$\frac{5\sqrt{42}}{77}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{5\sqrt{10}}{33}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix													
961	$M_{5,1}^{(a)}$	0	$-\frac{10\sqrt{6}}{231}$	0	0	0	0	0	0	$-\frac{25\sqrt{15}}{231}$	0	0	0	0	
		0	0	$\frac{20\sqrt{15}}{231}$	0	0	0	0	0	0	$\frac{65\sqrt{5}}{231}$	0	0	0	0
		0	0	0	$-\frac{20\sqrt{30}}{231}$	0	0	0	0	0	0	$-\frac{5\sqrt{10}}{231}$	0	0	0
		0	0	0	0	$\frac{20\sqrt{15}}{231}$	0	0	0	0	0	0	$-\frac{5\sqrt{6}}{21}$	0	0
		0	0	0	0	0	$-\frac{10\sqrt{6}}{231}$	0	0	0	0	0	0	$\frac{115}{231}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{5\sqrt{35}}{231}$
		$\frac{5\sqrt{35}}{231}$	0	0	0	0	0	0	$-\frac{5\sqrt{210}}{231}$	0	0	0	0	0	0
		0	$-\frac{115}{231}$	0	0	0	0	0	0	$\frac{40\sqrt{10}}{231}$	0	0	0	0	0
		0	0	$\frac{5\sqrt{6}}{21}$	0	0	0	0	0	0	$-\frac{5\sqrt{2}}{231}$	0	0	0	0
		0	0	0	$\frac{5\sqrt{10}}{231}$	0	0	0	0	0	0	$-\frac{20\sqrt{30}}{231}$	0	0	0
		0	0	0	0	$-\frac{65\sqrt{5}}{231}$	0	0	0	0	0	0	$-\frac{5\sqrt{2}}{231}$	0	0
		0	0	0	0	0	$\frac{25\sqrt{15}}{231}$	0	0	0	0	0	0	$\frac{40\sqrt{10}}{231}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{5\sqrt{210}}{231}$
0	0	0	0	0	0	0	0	0	0	0	0	0	0		

continued ...

Table 10

No.	multipole	matrix													
962	$M_{5,0}^{(a)}$	$\frac{10}{231}$	0	0	0	0	0	0	$\frac{25\sqrt{6}}{231}$	0	0	0	0	0	0
		0	$-\frac{50}{231}$	0	0	0	0	0	0	$-\frac{15\sqrt{10}}{77}$	0	0	0	0	0
		0	0	$\frac{100}{231}$	0	0	0	0	0	0	$\frac{50\sqrt{3}}{231}$	0	0	0	0
		0	0	0	$-\frac{100}{231}$	0	0	0	0	0	0	$\frac{50\sqrt{3}}{231}$	0	0	0
		0	0	0	0	$\frac{50}{231}$	0	0	0	0	0	0	$-\frac{15\sqrt{10}}{77}$	0	0
		0	0	0	0	0	$-\frac{10}{231}$	0	0	0	0	0	0	$\frac{25\sqrt{6}}{231}$	0
		0	0	0	0	0	0	$\frac{5}{33}$	0	0	0	0	0	0	0
		$\frac{25\sqrt{6}}{231}$	0	0	0	0	0	0	$-\frac{115}{231}$	0	0	0	0	0	0
		0	$-\frac{15\sqrt{10}}{77}$	0	0	0	0	0	0	$\frac{85}{231}$	0	0	0	0	0
		0	0	$\frac{50\sqrt{3}}{231}$	0	0	0	0	0	0	$\frac{25}{77}$	0	0	0	0
		0	0	0	$\frac{50\sqrt{3}}{231}$	0	0	0	0	0	0	$-\frac{25}{77}$	0	0	0
		0	0	0	0	$-\frac{15\sqrt{10}}{77}$	0	0	0	0	0	0	$-\frac{85}{231}$	0	0
		0	0	0	0	0	$\frac{25\sqrt{6}}{231}$	0	0	0	0	0	0	$\frac{115}{231}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{5}{33}$

continued ...

Table 10

No.	multipole	matrix													
963	$M_{5,-1}^{(a)}$	0	0	0	0	0	0	$-\frac{5\sqrt{35}}{231}$	0	0	0	0	0	0	0
		$\frac{10\sqrt{6}}{231}$	0	0	0	0	0	0	$\frac{115}{231}$	0	0	0	0	0	0
		0	$-\frac{20\sqrt{15}}{231}$	0	0	0	0	0	0	$-\frac{5\sqrt{6}}{21}$	0	0	0	0	0
		0	0	$\frac{20\sqrt{30}}{231}$	0	0	0	0	0	0	$-\frac{5\sqrt{10}}{231}$	0	0	0	0
		0	0	0	$-\frac{20\sqrt{15}}{231}$	0	0	0	0	0	0	$\frac{65\sqrt{5}}{231}$	0	0	0
		0	0	0	0	$\frac{10\sqrt{6}}{231}$	0	0	0	0	0	0	$-\frac{25\sqrt{15}}{231}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{5\sqrt{210}}{231}$	0	0	0	0	0	0	0
		$\frac{25\sqrt{15}}{231}$	0	0	0	0	0	0	$-\frac{40\sqrt{10}}{231}$	0	0	0	0	0	0
		0	$-\frac{65\sqrt{5}}{231}$	0	0	0	0	0	0	$\frac{5\sqrt{2}}{231}$	0	0	0	0	0
		0	0	$\frac{5\sqrt{10}}{231}$	0	0	0	0	0	0	$\frac{20\sqrt{30}}{231}$	0	0	0	0
		0	0	0	$\frac{5\sqrt{6}}{21}$	0	0	0	0	0	0	$\frac{5\sqrt{2}}{231}$	0	0	0
		0	0	0	0	$-\frac{115}{231}$	0	0	0	0	0	0	$-\frac{40\sqrt{10}}{231}$	0	0
		0	0	0	0	0	$\frac{5\sqrt{35}}{231}$	0	0	0	0	0	0	$\frac{5\sqrt{210}}{231}$	0

continued ...

Table 10

No.	multipole	matrix												
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{10}{33}$	0	0	0	0	0	0
		$\frac{10\sqrt{21}}{231}$	0	0	0	0	0	0	$\frac{40\sqrt{14}}{231}$	0	0	0	0	0
		0	$-\frac{10\sqrt{105}}{231}$	0	0	0	0	0	0	$-\frac{10\sqrt{42}}{231}$	0	0	0	0
		0	0	$\frac{10\sqrt{105}}{231}$	0	0	0	0	0	0	$-\frac{20\sqrt{35}}{231}$	0	0	0
		0	0	0	$-\frac{10\sqrt{21}}{231}$	0	0	0	0	0	0	$\frac{50\sqrt{7}}{231}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{5\sqrt{10}}{33}$	0	0	0	0	0	0
		$\frac{50\sqrt{7}}{231}$	0	0	0	0	0	0	$-\frac{5\sqrt{42}}{77}$	0	0	0	0	0
		0	$-\frac{20\sqrt{35}}{231}$	0	0	0	0	0	0	$-\frac{20\sqrt{14}}{231}$	0	0	0	0
		0	0	$-\frac{10\sqrt{42}}{231}$	0	0	0	0	0	0	$\frac{20\sqrt{14}}{231}$	0	0	0
		0	0	0	$\frac{40\sqrt{14}}{231}$	0	0	0	0	0	0	$\frac{5\sqrt{42}}{77}$	0	0
		0	0	0	0	$-\frac{10}{33}$	0	0	0	0	0	0	$-\frac{5\sqrt{10}}{33}$	0

continued ...

Table 10

No.	multipole	matrix																			
966	$M_{5,-4}^{(a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	$-\frac{10\sqrt{6}}{33}$	0	0	0	0	0	0	0	0	0	0	0	0
		$\frac{10\sqrt{14}}{77}$	0	0	0	0	0	0	0	$\frac{10\sqrt{21}}{231}$	0	0	0	0	0	0	0	0	0	0	0
		0	$-\frac{10\sqrt{14}}{77}$	0	0	0	0	0	0	0	$\frac{10\sqrt{35}}{77}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	$\frac{5\sqrt{2}}{11}$	0	0	0	0	0	0	0	0	0	0	0	0
		$\frac{10\sqrt{35}}{77}$	0	0	0	0	0	0	0	$\frac{5\sqrt{210}}{231}$	0	0	0	0	0	0	0	0	0	0	0
		0	$\frac{10\sqrt{21}}{231}$	0	0	0	0	0	0	0	$-\frac{5\sqrt{210}}{231}$	0	0	0	0	0	0	0	0	0	0
		0	0	$-\frac{10\sqrt{6}}{33}$	0	0	0	0	0	0	0	0	$-\frac{5\sqrt{2}}{11}$	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix																																																																																																																																																																																																															
		0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	$-\frac{5\sqrt{30}}{33}$	0	0	0	0	0			$\frac{20\sqrt{7}}{77}$	0	0	0	0	0	$-\frac{25\sqrt{42}}{231}$	0	0	0	0	0	967	$M_{5,-5}^{(a)}$	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	$\frac{10\sqrt{3}}{33}$	0	0	0	0	0			$\frac{25\sqrt{42}}{231}$	0	0	0	0	0	$\frac{20\sqrt{7}}{77}$	0	0	0	0	0			0	$\frac{5\sqrt{30}}{33}$	0	0	0	0	0	0	$\frac{10\sqrt{3}}{33}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	$-\frac{5\sqrt{30}}{33}$	0	0	0	0	0			$\frac{20\sqrt{7}}{77}$	0	0	0	0	0	$-\frac{25\sqrt{42}}{231}$	0	0	0	0	0	967	$M_{5,-5}^{(a)}$	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	$\frac{10\sqrt{3}}{33}$	0	0	0	0	0			$\frac{25\sqrt{42}}{231}$	0	0	0	0	0	$\frac{20\sqrt{7}}{77}$	0	0	0	0	0			0	$\frac{5\sqrt{30}}{33}$	0	0	0	0	0	0	$\frac{10\sqrt{3}}{33}$	0	0	0														
		0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	$-\frac{5\sqrt{30}}{33}$	0	0	0	0	0			$\frac{20\sqrt{7}}{77}$	0	0	0	0	0	$-\frac{25\sqrt{42}}{231}$	0	0	0	0	0	967	$M_{5,-5}^{(a)}$	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	$\frac{10\sqrt{3}}{33}$	0	0	0	0	0			$\frac{25\sqrt{42}}{231}$	0	0	0	0	0	$\frac{20\sqrt{7}}{77}$	0	0	0	0	0			0	$\frac{5\sqrt{30}}{33}$	0	0	0	0	0	0	$\frac{10\sqrt{3}}{33}$	0	0	0																												
		0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	$-\frac{5\sqrt{30}}{33}$	0	0	0	0	0			$\frac{20\sqrt{7}}{77}$	0	0	0	0	0	$-\frac{25\sqrt{42}}{231}$	0	0	0	0	0	967	$M_{5,-5}^{(a)}$	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	$\frac{10\sqrt{3}}{33}$	0	0	0	0	0			$\frac{25\sqrt{42}}{231}$	0	0	0	0	0	$\frac{20\sqrt{7}}{77}$	0	0	0	0	0			0	$\frac{5\sqrt{30}}{33}$	0	0	0	0	0	0	$\frac{10\sqrt{3}}{33}$	0	0	0																																										
		0	0	0	0	0	0	$-\frac{5\sqrt{30}}{33}$	0	0	0	0	0			$\frac{20\sqrt{7}}{77}$	0	0	0	0	0	$-\frac{25\sqrt{42}}{231}$	0	0	0	0	0	967	$M_{5,-5}^{(a)}$	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	$\frac{10\sqrt{3}}{33}$	0	0	0	0	0			$\frac{25\sqrt{42}}{231}$	0	0	0	0	0	$\frac{20\sqrt{7}}{77}$	0	0	0	0	0			0	$\frac{5\sqrt{30}}{33}$	0	0	0	0	0	0	$\frac{10\sqrt{3}}{33}$	0	0	0																																																								
		$\frac{20\sqrt{7}}{77}$	0	0	0	0	0	$-\frac{25\sqrt{42}}{231}$	0	0	0	0	0	967	$M_{5,-5}^{(a)}$	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	$\frac{10\sqrt{3}}{33}$	0	0	0	0	0			$\frac{25\sqrt{42}}{231}$	0	0	0	0	0	$\frac{20\sqrt{7}}{77}$	0	0	0	0	0			0	$\frac{5\sqrt{30}}{33}$	0	0	0	0	0	0	$\frac{10\sqrt{3}}{33}$	0	0	0																																																																						
967	$M_{5,-5}^{(a)}$	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	$\frac{10\sqrt{3}}{33}$	0	0	0	0	0			$\frac{25\sqrt{42}}{231}$	0	0	0	0	0	$\frac{20\sqrt{7}}{77}$	0	0	0	0	0			0	$\frac{5\sqrt{30}}{33}$	0	0	0	0	0	0	$\frac{10\sqrt{3}}{33}$	0	0	0																																																																																				
		0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	$\frac{10\sqrt{3}}{33}$	0	0	0	0	0			$\frac{25\sqrt{42}}{231}$	0	0	0	0	0	$\frac{20\sqrt{7}}{77}$	0	0	0	0	0			0	$\frac{5\sqrt{30}}{33}$	0	0	0	0	0	0	$\frac{10\sqrt{3}}{33}$	0	0	0																																																																																																		
		0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	$\frac{10\sqrt{3}}{33}$	0	0	0	0	0			$\frac{25\sqrt{42}}{231}$	0	0	0	0	0	$\frac{20\sqrt{7}}{77}$	0	0	0	0	0			0	$\frac{5\sqrt{30}}{33}$	0	0	0	0	0	0	$\frac{10\sqrt{3}}{33}$	0	0	0																																																																																																																
		0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	$\frac{10\sqrt{3}}{33}$	0	0	0	0	0			$\frac{25\sqrt{42}}{231}$	0	0	0	0	0	$\frac{20\sqrt{7}}{77}$	0	0	0	0	0			0	$\frac{5\sqrt{30}}{33}$	0	0	0	0	0	0	$\frac{10\sqrt{3}}{33}$	0	0	0																																																																																																																														
		0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	$\frac{10\sqrt{3}}{33}$	0	0	0	0	0			$\frac{25\sqrt{42}}{231}$	0	0	0	0	0	$\frac{20\sqrt{7}}{77}$	0	0	0	0	0			0	$\frac{5\sqrt{30}}{33}$	0	0	0	0	0	0	$\frac{10\sqrt{3}}{33}$	0	0	0																																																																																																																																												
		0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	$\frac{10\sqrt{3}}{33}$	0	0	0	0	0			$\frac{25\sqrt{42}}{231}$	0	0	0	0	0	$\frac{20\sqrt{7}}{77}$	0	0	0	0	0			0	$\frac{5\sqrt{30}}{33}$	0	0	0	0	0	0	$\frac{10\sqrt{3}}{33}$	0	0	0																																																																																																																																																										
		0	0	0	0	0	0	$\frac{10\sqrt{3}}{33}$	0	0	0	0	0			$\frac{25\sqrt{42}}{231}$	0	0	0	0	0	$\frac{20\sqrt{7}}{77}$	0	0	0	0	0			0	$\frac{5\sqrt{30}}{33}$	0	0	0	0	0	0	$\frac{10\sqrt{3}}{33}$	0	0	0																																																																																																																																																																								
		$\frac{25\sqrt{42}}{231}$	0	0	0	0	0	$\frac{20\sqrt{7}}{77}$	0	0	0	0	0			0	$\frac{5\sqrt{30}}{33}$	0	0	0	0	0	0	$\frac{10\sqrt{3}}{33}$	0	0	0																																																																																																																																																																																						
		0	$\frac{5\sqrt{30}}{33}$	0	0	0	0	0	0	$\frac{10\sqrt{3}}{33}$	0	0	0																																																																																																																																																																																																				

continued ...

Table 10

No.	multipole	matrix															
968	$M_{1,1}^{(1,-1;a)}$	0	$\frac{\sqrt{10}}{7}$	0	0	0	0	0	0	$\frac{2}{7}$	0	0	0	0	0		
		0	0	$\frac{4}{7}$	0	0	0	0	0	0	$\frac{2\sqrt{3}}{7}$	0	0	0	0	0	
		0	0	0	$\frac{3\sqrt{2}}{7}$	0	0	0	0	0	0	$\frac{2\sqrt{6}}{7}$	0	0	0	0	
		0	0	0	0	$\frac{4}{7}$	0	0	0	0	0	0	$\frac{2\sqrt{10}}{7}$	0	0	0	
		0	0	0	0	0	$\frac{\sqrt{10}}{7}$	0	0	0	0	0	0	$\frac{2\sqrt{15}}{7}$	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{21}}{7}$	0	
		$-\frac{2\sqrt{21}}{7}$	0	0	0	0	0	0	$-\frac{\sqrt{14}}{7}$	0	0	0	0	0	0	0	0
		0	$-\frac{2\sqrt{15}}{7}$	0	0	0	0	0	0	$-\frac{2\sqrt{6}}{7}$	0	0	0	0	0	0	0
		0	0	$-\frac{2\sqrt{10}}{7}$	0	0	0	0	0	0	$-\frac{\sqrt{30}}{7}$	0	0	0	0	0	0
		0	0	0	$-\frac{2\sqrt{6}}{7}$	0	0	0	0	0	0	$-\frac{4\sqrt{2}}{7}$	0	0	0	0	0
		0	0	0	0	$-\frac{2\sqrt{3}}{7}$	0	0	0	0	0	0	$-\frac{\sqrt{30}}{7}$	0	0	0	0
		0	0	0	0	0	$-\frac{2}{7}$	0	0	0	0	0	0	$-\frac{2\sqrt{6}}{7}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{14}}{7}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix													
969	$M_{1,0}^{(1,-1;a)}$	$-\frac{5}{7}$	0	0	0	0	0	0	$-\frac{2\sqrt{6}}{7}$	0	0	0	0	0	0
		0	$-\frac{3}{7}$	0	0	0	0	0	0	$-\frac{2\sqrt{10}}{7}$	0	0	0	0	0
		0	0	$-\frac{1}{7}$	0	0	0	0	0	0	$-\frac{4\sqrt{3}}{7}$	0	0	0	0
		0	0	0	$\frac{1}{7}$	0	0	0	0	0	0	$-\frac{4\sqrt{3}}{7}$	0	0	0
		0	0	0	0	$\frac{3}{7}$	0	0	0	0	0	0	$-\frac{2\sqrt{10}}{7}$	0	0
		0	0	0	0	0	$\frac{5}{7}$	0	0	0	0	0	0	$-\frac{2\sqrt{6}}{7}$	0
		0	0	0	0	0	0	1	0	0	0	0	0	0	0
		$-\frac{2\sqrt{6}}{7}$	0	0	0	0	0	0	$\frac{5}{7}$	0	0	0	0	0	0
		0	$-\frac{2\sqrt{10}}{7}$	0	0	0	0	0	0	$\frac{3}{7}$	0	0	0	0	0
		0	0	$-\frac{4\sqrt{3}}{7}$	0	0	0	0	0	0	$\frac{1}{7}$	0	0	0	0
		0	0	0	$-\frac{4\sqrt{3}}{7}$	0	0	0	0	0	0	$-\frac{1}{7}$	0	0	0
		0	0	0	0	$-\frac{2\sqrt{10}}{7}$	0	0	0	0	0	0	$-\frac{3}{7}$	0	0
		0	0	0	0	0	$-\frac{2\sqrt{6}}{7}$	0	0	0	0	0	0	$-\frac{5}{7}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	-1

continued ...

Table 10

No.	multipole	matrix															
970	$M_{1,-1}^{(1,-1;a)}$	0	0	0	0	0	0	$\frac{2\sqrt{21}}{7}$	0	0	0	0	0	0	0		
		$-\frac{\sqrt{10}}{7}$	0	0	0	0	0	0	0	$\frac{2\sqrt{15}}{7}$	0	0	0	0	0	0	
		0	$-\frac{4}{7}$	0	0	0	0	0	0	0	$\frac{2\sqrt{10}}{7}$	0	0	0	0	0	
		0	0	$-\frac{3\sqrt{2}}{7}$	0	0	0	0	0	0	0	$\frac{2\sqrt{6}}{7}$	0	0	0	0	
		0	0	0	$-\frac{4}{7}$	0	0	0	0	0	0	0	$\frac{2\sqrt{3}}{7}$	0	0	0	
		0	0	0	0	$-\frac{\sqrt{10}}{7}$	0	0	0	0	0	0	0	$\frac{2}{7}$	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	$\frac{\sqrt{14}}{7}$	0	0	0	0	0	0	0	0
		$-\frac{2}{7}$	0	0	0	0	0	0	0	$\frac{2\sqrt{6}}{7}$	0	0	0	0	0	0	0
		0	$-\frac{2\sqrt{3}}{7}$	0	0	0	0	0	0	0	$\frac{\sqrt{30}}{7}$	0	0	0	0	0	0
		0	0	$-\frac{2\sqrt{6}}{7}$	0	0	0	0	0	0	0	$\frac{4\sqrt{2}}{7}$	0	0	0	0	0
		0	0	0	$-\frac{2\sqrt{10}}{7}$	0	0	0	0	0	0	0	$\frac{\sqrt{30}}{7}$	0	0	0	0
		0	0	0	0	$-\frac{2\sqrt{15}}{7}$	0	0	0	0	0	0	0	$\frac{2\sqrt{6}}{7}$	0	0	0
		0	0	0	0	0	$-\frac{2\sqrt{21}}{7}$	0	0	0	0	0	0	0	0	$\frac{\sqrt{14}}{7}$	0

continued ...

Table 10

No.	multipole	matrix														
971	$M_{3,3}^{(1,-1;a)}$	0	0	0	$-\frac{2\sqrt{30}}{105}$	0	0	0	0	0	$-\frac{4\sqrt{10}}{105}$	0	0	0		
		0	0	0	0	$-\frac{8\sqrt{3}}{105}$	0	0	0	0	0	$-\frac{4\sqrt{30}}{105}$	0	0	0	
		0	0	0	0	0	$-\frac{2\sqrt{30}}{105}$	0	0	0	0	0	$-\frac{4\sqrt{5}}{35}$	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{4\sqrt{35}}{105}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	$\frac{4\sqrt{35}}{105}$	0	0	0	0	0	$\frac{2\sqrt{105}}{105}$	0	0	0	0	0	0
		0	0	0	$\frac{4\sqrt{5}}{35}$	0	0	0	0	0	$\frac{8\sqrt{15}}{105}$	0	0	0	0	0
		0	0	0	0	$\frac{4\sqrt{30}}{105}$	0	0	0	0	0	$\frac{4\sqrt{3}}{21}$	0	0	0	0
		0	0	0	0	0	$\frac{4\sqrt{10}}{105}$	0	0	0	0	0	$\frac{8\sqrt{15}}{105}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{105}}{105}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix														
972	$M_{3,2}^{(1,-1;a)}$	0	0	$\frac{2\sqrt{5}}{35}$	0	0	0	0	0	$\frac{16\sqrt{15}}{315}$	0	0	0	0		
		0	0	0	$\frac{2}{35}$	0	0	0	0	0	$\frac{8\sqrt{3}}{63}$	0	0	0	0	
		0	0	0	0	$-\frac{2}{35}$	0	0	0	0	0	$\frac{4\sqrt{10}}{105}$	0	0	0	
		0	0	0	0	0	$-\frac{2\sqrt{5}}{35}$	0	0	0	0	0	$-\frac{4\sqrt{30}}{315}$	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{8\sqrt{105}}{315}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	$-\frac{8\sqrt{105}}{315}$	0	0	0	0	0	0	$-\frac{\sqrt{42}}{21}$	0	0	0	0	0	0
		0	0	$-\frac{4\sqrt{30}}{315}$	0	0	0	0	0	0	$-\frac{3\sqrt{10}}{35}$	0	0	0	0	0
		0	0	0	$\frac{4\sqrt{10}}{105}$	0	0	0	0	0	0	$-\frac{2\sqrt{30}}{105}$	0	0	0	0
		0	0	0	0	$\frac{8\sqrt{3}}{63}$	0	0	0	0	0	0	$\frac{2\sqrt{30}}{105}$	0	0	0
		0	0	0	0	0	$\frac{16\sqrt{15}}{315}$	0	0	0	0	0	0	$\frac{3\sqrt{10}}{35}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{42}}{21}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix													
973	$M_{3,1}^{(1,-1;a)}$	0	$-\frac{4}{35}$	0	0	0	0	0	0	$-\frac{8\sqrt{10}}{105}$	0	0	0	0	
		0	0	$\frac{2\sqrt{10}}{175}$	0	0	0	0	0	0	$-\frac{8\sqrt{30}}{315}$	0	0	0	0
		0	0	0	$\frac{8\sqrt{5}}{175}$	0	0	0	0	0	0	$\frac{4\sqrt{15}}{315}$	0	0	0
		0	0	0	0	$\frac{2\sqrt{10}}{175}$	0	0	0	0	0	0	$\frac{4}{21}$	0	0
		0	0	0	0	0	$-\frac{4}{35}$	0	0	0	0	0	0	$\frac{4\sqrt{6}}{63}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{4\sqrt{210}}{315}$
		$\frac{4\sqrt{210}}{315}$	0	0	0	0	0	0	$\frac{2\sqrt{35}}{35}$	0	0	0	0	0	0
		0	$-\frac{4\sqrt{6}}{63}$	0	0	0	0	0	0	$\frac{2\sqrt{15}}{105}$	0	0	0	0	0
		0	0	$-\frac{4}{21}$	0	0	0	0	0	0	$-\frac{2\sqrt{3}}{21}$	0	0	0	0
		0	0	0	$-\frac{4\sqrt{15}}{315}$	0	0	0	0	0	0	$-\frac{4\sqrt{5}}{35}$	0	0	0
		0	0	0	0	$\frac{8\sqrt{30}}{315}$	0	0	0	0	0	0	$-\frac{2\sqrt{3}}{21}$	0	0
		0	0	0	0	0	$\frac{8\sqrt{10}}{105}$	0	0	0	0	0	0	$\frac{2\sqrt{15}}{105}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{35}}{35}$
		0	0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix													
974	$M_{3,0}^{(1,-1;a)}$	$\frac{2\sqrt{15}}{105}$	0	0	0	0	0	0	$\frac{8\sqrt{10}}{105}$	0	0	0	0	0	0
		0	$-\frac{2\sqrt{15}}{75}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$-\frac{8\sqrt{15}}{525}$	0	0	0	0	0	0	$-\frac{8\sqrt{5}}{105}$	0	0	0	0
		0	0	0	$\frac{8\sqrt{15}}{525}$	0	0	0	0	0	0	$-\frac{8\sqrt{5}}{105}$	0	0	0
		0	0	0	0	$\frac{2\sqrt{15}}{75}$	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$-\frac{2\sqrt{15}}{105}$	0	0	0	0	0	0	$\frac{8\sqrt{10}}{105}$	0
		0	0	0	0	0	0	$-\frac{\sqrt{15}}{15}$	0	0	0	0	0	0	0
		$\frac{8\sqrt{10}}{105}$	0	0	0	0	0	0	$\frac{\sqrt{15}}{21}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$\frac{\sqrt{15}}{15}$	0	0	0	0	0
		0	0	$-\frac{8\sqrt{5}}{105}$	0	0	0	0	0	0	$\frac{\sqrt{15}}{35}$	0	0	0	0
		0	0	0	$-\frac{8\sqrt{5}}{105}$	0	0	0	0	0	0	$-\frac{\sqrt{15}}{35}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{15}}{15}$	0	0
		0	0	0	0	0	$\frac{8\sqrt{10}}{105}$	0	0	0	0	0	0	$-\frac{\sqrt{15}}{21}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{15}}{15}$

continued ...

Table 10

No.	multipole	matrix													
975	$M_{3,-1}^{(1,-1;a)}$	0	0	0	0	0	0	$-\frac{4\sqrt{210}}{315}$	0	0	0	0	0	0	0
		$\frac{4}{35}$	0	0	0	0	0	0	$\frac{4\sqrt{6}}{63}$	0	0	0	0	0	0
		0	$-\frac{2\sqrt{10}}{175}$	0	0	0	0	0	0	$\frac{4}{21}$	0	0	0	0	0
		0	0	$-\frac{8\sqrt{5}}{175}$	0	0	0	0	0	0	$\frac{4\sqrt{15}}{315}$	0	0	0	0
		0	0	0	$-\frac{2\sqrt{10}}{175}$	0	0	0	0	0	0	$-\frac{8\sqrt{30}}{315}$	0	0	0
		0	0	0	0	$\frac{4}{35}$	0	0	0	0	0	0	$-\frac{8\sqrt{10}}{105}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{2\sqrt{35}}{35}$	0	0	0	0	0	0	0
		$\frac{8\sqrt{10}}{105}$	0	0	0	0	0	0	$-\frac{2\sqrt{15}}{105}$	0	0	0	0	0	0
		0	$\frac{8\sqrt{30}}{315}$	0	0	0	0	0	0	$\frac{2\sqrt{3}}{21}$	0	0	0	0	0
		0	0	$-\frac{4\sqrt{15}}{315}$	0	0	0	0	0	0	$\frac{4\sqrt{5}}{35}$	0	0	0	0
		0	0	0	$-\frac{4}{21}$	0	0	0	0	0	0	$\frac{2\sqrt{3}}{21}$	0	0	0
		0	0	0	0	$-\frac{4\sqrt{6}}{63}$	0	0	0	0	0	0	$-\frac{2\sqrt{15}}{105}$	0	0
		0	0	0	0	0	$\frac{4\sqrt{210}}{315}$	0	0	0	0	0	0	$-\frac{2\sqrt{35}}{35}$	0

continued ...

Table 10

No.	multipole	matrix															
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{8\sqrt{105}}{315}$	0	0	0	0	0	0	0	0	0
		$\frac{2\sqrt{5}}{35}$	0	0	0	0	0	0	$-\frac{4\sqrt{30}}{315}$	0	0	0	0	0	0	0	0
		0	$\frac{2}{35}$	0	0	0	0	0	0	$\frac{4\sqrt{10}}{105}$	0	0	0	0	0	0	0
		0	0	$-\frac{2}{35}$	0	0	0	0	0	0	$\frac{8\sqrt{3}}{63}$	0	0	0	0	0	0
		0	0	0	$-\frac{2\sqrt{5}}{35}$	0	0	0	0	0	0	$\frac{16\sqrt{15}}{315}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{\sqrt{42}}{21}$	0	0	0	0	0	0	0	0	0
		$\frac{16\sqrt{15}}{315}$	0	0	0	0	0	0	$-\frac{3\sqrt{10}}{35}$	0	0	0	0	0	0	0	0
		0	$\frac{8\sqrt{3}}{63}$	0	0	0	0	0	0	$-\frac{2\sqrt{30}}{105}$	0	0	0	0	0	0	0
		0	0	$\frac{4\sqrt{10}}{105}$	0	0	0	0	0	0	$\frac{2\sqrt{30}}{105}$	0	0	0	0	0	0
		0	0	0	$-\frac{4\sqrt{30}}{315}$	0	0	0	0	0	0	$\frac{3\sqrt{10}}{35}$	0	0	0	0	0
976	$M_{3,-2}^{(1,-1;a)}$	0	0	0	0	$-\frac{8\sqrt{105}}{315}$	0	0	0	0	0	0	0	0	$\frac{\sqrt{42}}{21}$	0	0

continued ...

Table 10

No.	multipole	matrix													
977	$M_{3,-3}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{4\sqrt{35}}{105}$	0	0	0	0	0	0	0
		$\frac{2\sqrt{30}}{105}$	0	0	0	0	0	0	$-\frac{4\sqrt{5}}{35}$	0	0	0	0	0	0
		0	$\frac{8\sqrt{3}}{105}$	0	0	0	0	0	0	$-\frac{4\sqrt{30}}{105}$	0	0	0	0	0
		0	0	$\frac{2\sqrt{30}}{105}$	0	0	0	0	0	0	$-\frac{4\sqrt{10}}{105}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{2\sqrt{105}}{105}$	0	0	0	0	0	0	0
		$\frac{4\sqrt{10}}{105}$	0	0	0	0	0	0	$-\frac{8\sqrt{15}}{105}$	0	0	0	0	0	0
		0	$\frac{4\sqrt{30}}{105}$	0	0	0	0	0	0	$-\frac{4\sqrt{3}}{21}$	0	0	0	0	0
		0	0	$\frac{4\sqrt{5}}{35}$	0	0	0	0	0	0	$-\frac{8\sqrt{15}}{105}$	0	0	0	0
		0	0	0	$\frac{4\sqrt{35}}{105}$	0	0	0	0	0	0	$-\frac{2\sqrt{105}}{105}$	0	0	0

continued ...

Table 10

No.	multipole	matrix													
		0	0	0	0	0	$\frac{2\sqrt{35}}{231}$	0	0	0	0	0	0	$\frac{2\sqrt{210}}{231}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{6}}{33}$
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
978	$M_{5,5}^{(1,-1;a)}$	0	0	0	0	$-\frac{2\sqrt{6}}{33}$	0	0	0	0	0	0	$-\frac{2\sqrt{15}}{33}$	0	
		0	0	0	0	0	$-\frac{2\sqrt{210}}{231}$	0	0	0	0	0	0	$-\frac{4\sqrt{35}}{77}$	
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{15}}{33}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	

continued ...

Table 10

No.	multipole	matrix													
		0	0	0	0	$-\frac{\sqrt{70}}{231}$	0	0	0	0	0	0	$-\frac{4\sqrt{7}}{77}$	0	0
		0	0	0	0	0	$\frac{\sqrt{70}}{231}$	0	0	0	0	0	0	$-\frac{4\sqrt{105}}{1155}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{4\sqrt{30}}{165}$
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
979	$M_{5,4}^{(1,-1;a)}$	0	0	0	$\frac{4\sqrt{30}}{165}$	0	0	0	0	0	$\frac{\sqrt{10}}{11}$	0	0	0	
		0	0	0	0	$-\frac{4\sqrt{105}}{1155}$	0	0	0	0	0	$\frac{5\sqrt{42}}{231}$	0	0	
		0	0	0	0	0	$-\frac{4\sqrt{7}}{77}$	0	0	0	0	0	$-\frac{5\sqrt{42}}{231}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{10}}{11}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	

continued ...

Table 10

No.	multipole	matrix												
		0	0	0	$\frac{2\sqrt{70}}{693}$	0	0	0	0	0	$\frac{2\sqrt{210}}{231}$	0	0	0
		0	0	0	0	$-\frac{10\sqrt{7}}{693}$	0	0	0	0	0	$-\frac{2\sqrt{70}}{385}$	0	0
		0	0	0	0	0	$\frac{2\sqrt{70}}{693}$	0	0	0	0	0	$-\frac{4\sqrt{105}}{385}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{4\sqrt{15}}{165}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
980	$M_{5,3}^{(1,-1;a)}$	0	0	$-\frac{4\sqrt{15}}{165}$	0	0	0	0	0	$-\frac{4\sqrt{5}}{33}$	0	0	0	0
		0	0	0	$\frac{4\sqrt{105}}{385}$	0	0	0	0	0	$\frac{2\sqrt{35}}{231}$	0	0	0
		0	0	0	0	$\frac{2\sqrt{70}}{385}$	0	0	0	0	0	$\frac{20\sqrt{7}}{231}$	0	0
		0	0	0	0	0	$-\frac{2\sqrt{210}}{231}$	0	0	0	0	0	$\frac{2\sqrt{35}}{231}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{4\sqrt{5}}{33}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix														
981	$M_{5,2}^{(1,-1;a)}$	0	0	$-\frac{\sqrt{105}}{693}$	0	0	0	0	0	$-\frac{4\sqrt{35}}{231}$	0	0	0	0		
		0	0	0	$\frac{5\sqrt{21}}{693}$	0	0	0	0	0	$\frac{8\sqrt{7}}{231}$	0	0	0	0	
		0	0	0	0	$-\frac{5\sqrt{21}}{693}$	0	0	0	0	0	$\frac{4\sqrt{210}}{1155}$	0	0	0	
		0	0	0	0	0	$\frac{\sqrt{105}}{693}$	0	0	0	0	0	$-\frac{16\sqrt{70}}{1155}$	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{4\sqrt{5}}{165}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	$\frac{4\sqrt{5}}{165}$	0	0	0	0	0	0	$\frac{5\sqrt{2}}{33}$	0	0	0	0	0	0
		0	0	$-\frac{16\sqrt{70}}{1155}$	0	0	0	0	0	0	$-\frac{\sqrt{210}}{77}$	0	0	0	0	0
		0	0	0	$\frac{4\sqrt{210}}{1155}$	0	0	0	0	0	$-\frac{4\sqrt{70}}{231}$	0	0	0	0	0
		0	0	0	0	$\frac{8\sqrt{7}}{231}$	0	0	0	0	0	0	$\frac{4\sqrt{70}}{231}$	0	0	0
		0	0	0	0	0	$-\frac{4\sqrt{35}}{231}$	0	0	0	0	0	0	$\frac{\sqrt{210}}{77}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{5\sqrt{2}}{33}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix														
982	$M_{5,1}^{(1,-1;a)}$	0	$\frac{\sqrt{30}}{693}$	0	0	0	0	0	0	$\frac{10\sqrt{3}}{231}$	0	0	0	0		
		0	0	$-\frac{10\sqrt{3}}{693}$	0	0	0	0	0	0	$-\frac{26}{231}$	0	0	0	0	
		0	0	0	$\frac{10\sqrt{6}}{693}$	0	0	0	0	0	0	$\frac{2\sqrt{2}}{231}$	0	0	0	
		0	0	0	0	$-\frac{10\sqrt{3}}{693}$	0	0	0	0	0	0	$\frac{2\sqrt{30}}{105}$	0	0	
		0	0	0	0	0	$\frac{\sqrt{30}}{693}$	0	0	0	0	0	0	$-\frac{46\sqrt{5}}{1155}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{7}}{231}$	
		$-\frac{2\sqrt{7}}{231}$	0	0	0	0	0	0	$-\frac{5\sqrt{42}}{231}$	0	0	0	0	0	0	0
		0	$\frac{46\sqrt{5}}{1155}$	0	0	0	0	0	0	$\frac{40\sqrt{2}}{231}$	0	0	0	0	0	0
		0	0	$-\frac{2\sqrt{30}}{105}$	0	0	0	0	0	0	$-\frac{\sqrt{10}}{231}$	0	0	0	0	0
		0	0	0	$-\frac{2\sqrt{2}}{231}$	0	0	0	0	0	0	$-\frac{20\sqrt{6}}{231}$	0	0	0	0
		0	0	0	0	$\frac{26}{231}$	0	0	0	0	0	0	$-\frac{\sqrt{10}}{231}$	0	0	0
		0	0	0	0	0	$-\frac{10\sqrt{3}}{231}$	0	0	0	0	0	0	$\frac{40\sqrt{2}}{231}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{5\sqrt{42}}{231}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix													
983	$M_{5,0}^{(1,-1;a)}$	$-\frac{\sqrt{5}}{693}$	0	0	0	0	0	0	$-\frac{2\sqrt{30}}{231}$	0	0	0	0	0	0
		0	$\frac{5\sqrt{5}}{693}$	0	0	0	0	0	0	$\frac{6\sqrt{2}}{77}$	0	0	0	0	0
		0	0	$-\frac{10\sqrt{5}}{693}$	0	0	0	0	0	0	$-\frac{4\sqrt{15}}{231}$	0	0	0	0
		0	0	0	$\frac{10\sqrt{5}}{693}$	0	0	0	0	0	0	$-\frac{4\sqrt{15}}{231}$	0	0	0
		0	0	0	0	$-\frac{5\sqrt{5}}{693}$	0	0	0	0	0	0	$\frac{6\sqrt{2}}{77}$	0	0
		0	0	0	0	0	$\frac{\sqrt{5}}{693}$	0	0	0	0	0	0	$-\frac{2\sqrt{30}}{231}$	0
		0	0	0	0	0	0	$\frac{\sqrt{5}}{33}$	0	0	0	0	0	0	0
		$-\frac{2\sqrt{30}}{231}$	0	0	0	0	0	0	$-\frac{23\sqrt{5}}{231}$	0	0	0	0	0	0
		0	$\frac{6\sqrt{2}}{77}$	0	0	0	0	0	0	$\frac{17\sqrt{5}}{231}$	0	0	0	0	0
		0	0	$-\frac{4\sqrt{15}}{231}$	0	0	0	0	0	0	$\frac{5\sqrt{5}}{77}$	0	0	0	0
		0	0	0	$-\frac{4\sqrt{15}}{231}$	0	0	0	0	0	0	$-\frac{5\sqrt{5}}{77}$	0	0	0
		0	0	0	0	$\frac{6\sqrt{2}}{77}$	0	0	0	0	0	0	$-\frac{17\sqrt{5}}{231}$	0	0
		0	0	0	0	0	$-\frac{2\sqrt{30}}{231}$	0	0	0	0	0	0	$\frac{23\sqrt{5}}{231}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{5}}{33}$

continued ...

Table 10

No.	multipole	matrix													
984	$M_{5,-1}^{(1,-1;a)}$	0	0	0	0	0	0	$\frac{2\sqrt{7}}{231}$	0	0	0	0	0	0	0
		$-\frac{\sqrt{30}}{693}$	0	0	0	0	0	0	$-\frac{46\sqrt{5}}{1155}$	0	0	0	0	0	0
		0	$\frac{10\sqrt{3}}{693}$	0	0	0	0	0	0	$\frac{2\sqrt{30}}{105}$	0	0	0	0	0
		0	0	$-\frac{10\sqrt{6}}{693}$	0	0	0	0	0	0	$\frac{2\sqrt{2}}{231}$	0	0	0	0
		0	0	0	$\frac{10\sqrt{3}}{693}$	0	0	0	0	0	0	$-\frac{26}{231}$	0	0	0
		0	0	0	0	$-\frac{\sqrt{30}}{693}$	0	0	0	0	0	0	$\frac{10\sqrt{3}}{231}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{5\sqrt{42}}{231}$	0	0	0	0	0	0	0
		$-\frac{10\sqrt{3}}{231}$	0	0	0	0	0	0	$-\frac{40\sqrt{2}}{231}$	0	0	0	0	0	0
		0	$\frac{26}{231}$	0	0	0	0	0	0	$\frac{\sqrt{10}}{231}$	0	0	0	0	0
		0	0	$-\frac{2\sqrt{2}}{231}$	0	0	0	0	0	0	$\frac{20\sqrt{6}}{231}$	0	0	0	0
		0	0	0	$-\frac{2\sqrt{30}}{105}$	0	0	0	0	0	0	$\frac{\sqrt{10}}{231}$	0	0	0
		0	0	0	0	$\frac{46\sqrt{5}}{1155}$	0	0	0	0	0	0	$-\frac{40\sqrt{2}}{231}$	0	0
		0	0	0	0	0	$-\frac{2\sqrt{7}}{231}$	0	0	0	0	0	0	$\frac{5\sqrt{42}}{231}$	0

continued ...

Table 10

No.	multipole	matrix														
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{4\sqrt{5}}{165}$	0	0	0	0	0	0	0	0
		$-\frac{\sqrt{105}}{693}$	0	0	0	0	0	0	$-\frac{16\sqrt{70}}{1155}$	0	0	0	0	0	0	0
		0	$\frac{5\sqrt{21}}{693}$	0	0	0	0	0	0	$\frac{4\sqrt{210}}{1155}$	0	0	0	0	0	0
		0	0	$-\frac{5\sqrt{21}}{693}$	0	0	0	0	0	0	$\frac{8\sqrt{7}}{231}$	0	0	0	0	0
		0	0	0	$\frac{\sqrt{105}}{693}$	0	0	0	0	0	0	$-\frac{4\sqrt{35}}{231}$	0	0	0	0
985	$M_{5,-2}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{5\sqrt{2}}{33}$	0	0	0	0	0	0	0	0
		$-\frac{4\sqrt{35}}{231}$	0	0	0	0	0	0	$-\frac{\sqrt{210}}{77}$	0	0	0	0	0	0	0
		0	$\frac{8\sqrt{7}}{231}$	0	0	0	0	0	0	$-\frac{4\sqrt{70}}{231}$	0	0	0	0	0	0
		0	0	$\frac{4\sqrt{210}}{1155}$	0	0	0	0	0	0	$\frac{4\sqrt{70}}{231}$	0	0	0	0	0
		0	0	0	$-\frac{16\sqrt{70}}{1155}$	0	0	0	0	0	0	$\frac{\sqrt{210}}{77}$	0	0	0	0
		0	0	0	0	$\frac{4\sqrt{5}}{165}$	0	0	0	0	0	0	$-\frac{5\sqrt{2}}{33}$	0	0	0

continued ...

Table 10

No.	multipole	matrix																
986	$M_{5,-3}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	$\frac{4\sqrt{15}}{165}$	0	0	0	0	0	0	0	0	0	
		$-\frac{2\sqrt{70}}{693}$	0	0	0	0	0	0	$-\frac{4\sqrt{105}}{385}$	0	0	0	0	0	0	0	0	0
		0	$\frac{10\sqrt{7}}{693}$	0	0	0	0	0	0	$-\frac{2\sqrt{70}}{385}$	0	0	0	0	0	0	0	0
		0	0	$-\frac{2\sqrt{70}}{693}$	0	0	0	0	0	0	$\frac{2\sqrt{210}}{231}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{4\sqrt{5}}{33}$	0	0	0	0	0	0	0	0	0	0
		$-\frac{2\sqrt{210}}{231}$	0	0	0	0	0	0	$-\frac{2\sqrt{35}}{231}$	0	0	0	0	0	0	0	0	0
		0	$\frac{2\sqrt{70}}{385}$	0	0	0	0	0	0	$-\frac{20\sqrt{7}}{231}$	0	0	0	0	0	0	0	0
		0	0	$\frac{4\sqrt{105}}{385}$	0	0	0	0	0	0	$-\frac{2\sqrt{35}}{231}$	0	0	0	0	0	0	0
		0	0	0	$-\frac{4\sqrt{15}}{165}$	0	0	0	0	0	0	0	0	$\frac{4\sqrt{5}}{33}$	0	0	0	0

continued ...

Table 10

No.	multipole	matrix
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
989	$M_{7,7}^{(1,-1;a)}$	0 0 0 0 0 0 0 0 0 0 0 0 0 0 $\frac{10\sqrt{462}}{429}$
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

continued ...

Table 10

No.	multipole	matrix															
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
990	$M_{7,6}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{10\sqrt{231}}{429}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{10\sqrt{231}}{429}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix															
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
991	$M_{7,5}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	$\frac{10\sqrt{2002}}{1859}$	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{70\sqrt{858}}{5577}$	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{10\sqrt{2002}}{1859}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix													
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
992	$M_{7,4}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	$-\frac{5\sqrt{30030}}{5577}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	$\frac{35\sqrt{286}}{1859}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	$-\frac{35\sqrt{286}}{1859}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{5\sqrt{30030}}{5577}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix													
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
993	$M_{7,3}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	$\frac{10\sqrt{2730}}{5577}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$-\frac{70\sqrt{390}}{5577}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$\frac{70\sqrt{78}}{1859}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	$-\frac{70\sqrt{390}}{5577}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{10\sqrt{2730}}{5577}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix													
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
994	$M_{7,2}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	$-\frac{10\sqrt{91}}{1859}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	$\frac{70\sqrt{195}}{5577}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$-\frac{70\sqrt{65}}{1859}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$\frac{70\sqrt{65}}{1859}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	$-\frac{70\sqrt{195}}{5577}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{10\sqrt{91}}{1859}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix													
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
995	$M_{7,1}^{(1,-1;a)}$	0	0	0	0	0	0	$\frac{10\sqrt{182}}{5577}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	$-\frac{70\sqrt{78}}{5577}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$\frac{70\sqrt{390}}{5577}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$-\frac{350\sqrt{26}}{5577}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$\frac{70\sqrt{390}}{5577}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	$-\frac{70\sqrt{78}}{5577}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{10\sqrt{182}}{5577}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix													
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
996	$M_{7,0}^{(1,-1;a)}$	0	0	0	0	0	0	$-\frac{5\sqrt{91}}{5577}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{35\sqrt{91}}{5577}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	$-\frac{35\sqrt{91}}{1859}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$\frac{175\sqrt{91}}{5577}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$-\frac{175\sqrt{91}}{5577}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$\frac{35\sqrt{91}}{1859}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	$-\frac{35\sqrt{91}}{5577}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{5\sqrt{91}}{5577}$	0

continued ...

Table 10

No.	multipole	matrix													
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
997	$M_{7,-1}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{10\sqrt{182}}{5577}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	$\frac{70\sqrt{78}}{5577}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$-\frac{70\sqrt{390}}{5577}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$\frac{350\sqrt{26}}{5577}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$-\frac{70\sqrt{390}}{5577}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	$\frac{70\sqrt{78}}{5577}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{10\sqrt{182}}{5577}$	0

continued ...

Table 10

No.	multipole	matrix															
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
999	$M_{7,-3}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{10\sqrt{2730}}{5577}$	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{70\sqrt{390}}{5577}$	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	$-\frac{70\sqrt{78}}{1859}$	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$\frac{70\sqrt{390}}{5577}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$-\frac{10\sqrt{2730}}{5577}$	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix													
1004	$M_{1,1}^{(1,1;a)}$	0	$-\frac{8}{35}$	0	0	0	0	0	0	$\frac{\sqrt{10}}{70}$	0	0	0	0	
		0	0	$-\frac{16\sqrt{10}}{175}$	0	0	0	0	0	0	$\frac{\sqrt{30}}{70}$	0	0	0	0
		0	0	0	$-\frac{24\sqrt{5}}{175}$	0	0	0	0	0	0	$\frac{\sqrt{15}}{35}$	0	0	0
		0	0	0	0	$-\frac{16\sqrt{10}}{175}$	0	0	0	0	0	0	$\frac{1}{7}$	0	0
		0	0	0	0	0	$-\frac{8}{35}$	0	0	0	0	0	0	$\frac{\sqrt{6}}{14}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{210}}{70}$
		$-\frac{\sqrt{210}}{70}$	0	0	0	0	0	0	$\frac{2\sqrt{35}}{105}$	0	0	0	0	0	0
		0	$-\frac{\sqrt{6}}{14}$	0	0	0	0	0	0	$\frac{4\sqrt{15}}{105}$	0	0	0	0	0
		0	0	$-\frac{1}{7}$	0	0	0	0	0	0	$\frac{2\sqrt{3}}{21}$	0	0	0	0
		0	0	0	$-\frac{\sqrt{15}}{35}$	0	0	0	0	0	0	$\frac{8\sqrt{5}}{105}$	0	0	0
		0	0	0	0	$-\frac{\sqrt{30}}{70}$	0	0	0	0	0	0	$\frac{2\sqrt{3}}{21}$	0	0
		0	0	0	0	0	$-\frac{\sqrt{10}}{70}$	0	0	0	0	0	0	$\frac{4\sqrt{15}}{105}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{35}}{105}$
		0	0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix													
1005	$M_{1,0}^{(1,1;a)}$	$\frac{4\sqrt{10}}{35}$	0	0	0	0	0	0	$-\frac{\sqrt{15}}{35}$	0	0	0	0	0	0
		0	$\frac{12\sqrt{10}}{175}$	0	0	0	0	0	0	$-\frac{1}{7}$	0	0	0	0	0
		0	0	$\frac{4\sqrt{10}}{175}$	0	0	0	0	0	0	$-\frac{\sqrt{30}}{35}$	0	0	0	0
		0	0	0	$-\frac{4\sqrt{10}}{175}$	0	0	0	0	0	0	$-\frac{\sqrt{30}}{35}$	0	0	0
		0	0	0	0	$-\frac{12\sqrt{10}}{175}$	0	0	0	0	0	0	$-\frac{1}{7}$	0	0
		0	0	0	0	0	$-\frac{4\sqrt{10}}{35}$	0	0	0	0	0	0	$-\frac{\sqrt{15}}{35}$	0
		0	0	0	0	0	0	$-\frac{\sqrt{10}}{15}$	0	0	0	0	0	0	0
		$-\frac{\sqrt{15}}{35}$	0	0	0	0	0	0	$-\frac{\sqrt{10}}{21}$	0	0	0	0	0	0
		0	$-\frac{1}{7}$	0	0	0	0	0	0	$-\frac{\sqrt{10}}{35}$	0	0	0	0	0
		0	0	$-\frac{\sqrt{30}}{35}$	0	0	0	0	0	0	$-\frac{\sqrt{10}}{105}$	0	0	0	0
		0	0	0	$-\frac{\sqrt{30}}{35}$	0	0	0	0	0	0	$\frac{\sqrt{10}}{105}$	0	0	0
		0	0	0	0	$-\frac{1}{7}$	0	0	0	0	0	0	$\frac{\sqrt{10}}{35}$	0	0
		0	0	0	0	0	$-\frac{\sqrt{15}}{35}$	0	0	0	0	0	0	$\frac{\sqrt{10}}{21}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{10}}{15}$

continued ...

Table 10

No.	multipole	matrix															
1006	$M_{1,-1}^{(1,1;a)}$	0	0	0	0	0	0	$\frac{\sqrt{210}}{70}$	0	0	0	0	0	0	0		
		$\frac{8}{35}$	0	0	0	0	0	0	$\frac{\sqrt{6}}{14}$	0	0	0	0	0	0	0	
		0	$\frac{16\sqrt{10}}{175}$	0	0	0	0	0	0	$\frac{1}{7}$	0	0	0	0	0	0	
		0	0	$\frac{24\sqrt{5}}{175}$	0	0	0	0	0	0	$\frac{\sqrt{15}}{35}$	0	0	0	0	0	
		0	0	0	$\frac{16\sqrt{10}}{175}$	0	0	0	0	0	0	$\frac{\sqrt{30}}{70}$	0	0	0	0	
		0	0	0	0	$\frac{8}{35}$	0	0	0	0	0	0	$\frac{\sqrt{10}}{70}$	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	$-\frac{2\sqrt{35}}{105}$	0	0	0	0	0	0	0	0	
		$-\frac{\sqrt{10}}{70}$	0	0	0	0	0	0	$-\frac{4\sqrt{15}}{105}$	0	0	0	0	0	0	0	0
		0	$-\frac{\sqrt{30}}{70}$	0	0	0	0	0	0	$-\frac{2\sqrt{3}}{21}$	0	0	0	0	0	0	0
		0	0	$-\frac{\sqrt{15}}{35}$	0	0	0	0	0	0	$-\frac{8\sqrt{5}}{105}$	0	0	0	0	0	
		0	0	0	$-\frac{1}{7}$	0	0	0	0	0	0	$-\frac{2\sqrt{3}}{21}$	0	0	0	0	
		0	0	0	0	$-\frac{\sqrt{6}}{14}$	0	0	0	0	0	0	$-\frac{4\sqrt{15}}{105}$	0	0	0	
		0	0	0	0	0	$-\frac{\sqrt{210}}{70}$	0	0	0	0	0	0	0	$-\frac{2\sqrt{35}}{105}$	0	

continued ...

Table 10

No.	multipole	matrix												
		0	0	0	$\frac{10\sqrt{2}}{63}$	0	0	0	0	0	$-\frac{\sqrt{6}}{42}$	0	0	0
		0	0	0	0	$\frac{8\sqrt{5}}{63}$	0	0	0	0	0	$-\frac{\sqrt{2}}{14}$	0	0
		0	0	0	0	0	$\frac{10\sqrt{2}}{63}$	0	0	0	0	0	$-\frac{\sqrt{3}}{14}$	0
		0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{21}}{42}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
1007	$M_{3,3}^{(1,1;a)}$	0	0	$\frac{\sqrt{21}}{42}$	0	0	0	0	0	$-\frac{4\sqrt{7}}{231}$	0	0	0	0
		0	0	0	$\frac{\sqrt{3}}{14}$	0	0	0	0	0	$-\frac{16}{231}$	0	0	0
		0	0	0	0	$\frac{\sqrt{2}}{14}$	0	0	0	0	0	$-\frac{8\sqrt{5}}{231}$	0	0
		0	0	0	0	0	$\frac{\sqrt{6}}{42}$	0	0	0	0	0	$-\frac{16}{231}$	0
		0	0	0	0	0	0	0	0	0	0	0	$-\frac{4\sqrt{7}}{231}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix														
1008	$M_{3,2}^{(1,1;a)}$	0	0	$-\frac{10\sqrt{3}}{63}$	0	0	0	0	0	0	$\frac{2}{21}$	0	0	0		
		0	0	0	$-\frac{2\sqrt{15}}{63}$	0	0	0	0	0	0	$\frac{\sqrt{5}}{21}$	0	0	0	
		0	0	0	0	$\frac{2\sqrt{15}}{63}$	0	0	0	0	0	0	$\frac{\sqrt{6}}{42}$	0	0	
		0	0	0	0	0	$\frac{10\sqrt{3}}{63}$	0	0	0	0	0	0	$-\frac{\sqrt{2}}{42}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{7}}{21}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	$-\frac{\sqrt{7}}{21}$	0	0	0	0	0	0	$\frac{2\sqrt{70}}{231}$	0	0	0	0	0	0
		0	0	$-\frac{\sqrt{2}}{42}$	0	0	0	0	0	0	$\frac{2\sqrt{6}}{77}$	0	0	0	0	0
		0	0	0	$\frac{\sqrt{6}}{42}$	0	0	0	0	0	0	$\frac{4\sqrt{2}}{231}$	0	0	0	0
		0	0	0	0	$\frac{\sqrt{5}}{21}$	0	0	0	0	0	0	$-\frac{4\sqrt{2}}{231}$	0	0	0
		0	0	0	0	0	$\frac{2}{21}$	0	0	0	0	0	0	$-\frac{2\sqrt{6}}{77}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{70}}{231}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix													
1009	$M_{3,1}^{(1,1;a)}$	0	$\frac{4\sqrt{15}}{63}$	0	0	0	0	0	0	$-\frac{\sqrt{6}}{21}$	0	0	0	0	
		0	0	$-\frac{2\sqrt{6}}{63}$	0	0	0	0	0	0	$-\frac{\sqrt{2}}{21}$	0	0	0	0
		0	0	0	$-\frac{8\sqrt{3}}{63}$	0	0	0	0	0	0	$\frac{1}{42}$	0	0	0
		0	0	0	0	$-\frac{2\sqrt{6}}{63}$	0	0	0	0	0	0	$\frac{\sqrt{15}}{42}$	0	0
		0	0	0	0	0	$\frac{4\sqrt{15}}{63}$	0	0	0	0	0	0	$\frac{\sqrt{10}}{42}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{14}}{42}$
		$\frac{\sqrt{14}}{42}$	0	0	0	0	0	0	$-\frac{4\sqrt{21}}{231}$	0	0	0	0	0	0
		0	$-\frac{\sqrt{10}}{42}$	0	0	0	0	0	0	$-\frac{4}{231}$	0	0	0	0	0
		0	0	$-\frac{\sqrt{15}}{42}$	0	0	0	0	0	0	$\frac{4\sqrt{5}}{231}$	0	0	0	0
		0	0	0	$-\frac{1}{42}$	0	0	0	0	0	0	$\frac{8\sqrt{3}}{231}$	0	0	0
		0	0	0	0	$\frac{\sqrt{2}}{21}$	0	0	0	0	0	0	$\frac{4\sqrt{5}}{231}$	0	0
		0	0	0	0	0	$\frac{\sqrt{6}}{21}$	0	0	0	0	0	0	$-\frac{4}{231}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{4\sqrt{21}}{231}$
		0	0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix														
1010	$M_{3,0}^{(1,1;a)}$	$-\frac{10}{63}$	0	0	0	0	0	0	$\frac{\sqrt{6}}{21}$	0	0	0	0	0	0	
		0	$\frac{2}{9}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$\frac{8}{63}$	0	0	0	0	0	0	$-\frac{\sqrt{3}}{21}$	0	0	0	0	0
		0	0	0	$-\frac{8}{63}$	0	0	0	0	0	0	$-\frac{\sqrt{3}}{21}$	0	0	0	0
		0	0	0	0	$-\frac{2}{9}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$\frac{10}{63}$	0	0	0	0	0	0	$\frac{\sqrt{6}}{21}$	0	0
		0	0	0	0	0	0	$\frac{2}{33}$	0	0	0	0	0	0	0	0
		$\frac{\sqrt{6}}{21}$	0	0	0	0	0	0	$-\frac{10}{231}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$-\frac{2}{33}$	0	0	0	0	0	0
		0	0	$-\frac{\sqrt{3}}{21}$	0	0	0	0	0	0	$-\frac{2}{77}$	0	0	0	0	0
		0	0	0	$-\frac{\sqrt{3}}{21}$	0	0	0	0	0	0	$\frac{2}{77}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	$\frac{2}{33}$	0	0	0
		0	0	0	0	0	0	$\frac{\sqrt{6}}{21}$	0	0	0	0	0	0	$\frac{10}{231}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{2}{33}$

continued ...

Table 10

No.	multipole	matrix													
		0	0	0	0	0	0	$-\frac{\sqrt{14}}{42}$	0	0	0	0	0	0	0
		$-\frac{4\sqrt{15}}{63}$	0	0	0	0	0	0	$\frac{\sqrt{10}}{42}$	0	0	0	0	0	0
		0	$\frac{2\sqrt{6}}{63}$	0	0	0	0	0	0	$\frac{\sqrt{15}}{42}$	0	0	0	0	0
		0	0	$\frac{8\sqrt{3}}{63}$	0	0	0	0	0	0	$\frac{1}{42}$	0	0	0	0
		0	0	0	$\frac{2\sqrt{6}}{63}$	0	0	0	0	0	0	$-\frac{\sqrt{2}}{21}$	0	0	0
		0	0	0	0	$-\frac{4\sqrt{15}}{63}$	0	0	0	0	0	0	$-\frac{\sqrt{6}}{21}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{4\sqrt{21}}{231}$	0	0	0	0	0	0	0
		$\frac{\sqrt{6}}{21}$	0	0	0	0	0	0	$\frac{4}{231}$	0	0	0	0	0	0
		0	$\frac{\sqrt{2}}{21}$	0	0	0	0	0	0	$-\frac{4\sqrt{5}}{231}$	0	0	0	0	0
		0	0	$-\frac{1}{42}$	0	0	0	0	0	0	$-\frac{8\sqrt{3}}{231}$	0	0	0	0
		0	0	0	$-\frac{\sqrt{15}}{42}$	0	0	0	0	0	0	$-\frac{4\sqrt{5}}{231}$	0	0	0
		0	0	0	0	$-\frac{\sqrt{10}}{42}$	0	0	0	0	0	0	$\frac{4}{231}$	0	0
		0	0	0	0	0	$\frac{\sqrt{14}}{42}$	0	0	0	0	0	0	$\frac{4\sqrt{21}}{231}$	0

continued ...

Table 10

No.	multipole	matrix															
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{\sqrt{7}}{21}$	0	0	0	0	0	0	0	0	0
		$-\frac{10\sqrt{3}}{63}$	0	0	0	0	0	0	$-\frac{\sqrt{2}}{42}$	0	0	0	0	0	0	0	0
		0	$-\frac{2\sqrt{15}}{63}$	0	0	0	0	0	0	$\frac{\sqrt{6}}{42}$	0	0	0	0	0	0	0
		0	0	$\frac{2\sqrt{15}}{63}$	0	0	0	0	0	0	$\frac{\sqrt{5}}{21}$	0	0	0	0	0	0
		0	0	0	$\frac{10\sqrt{3}}{63}$	0	0	0	0	0	0	$\frac{2}{21}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{2\sqrt{70}}{231}$	0	0	0	0	0	0	0	0	0
		$\frac{2}{21}$	0	0	0	0	0	0	$\frac{2\sqrt{6}}{77}$	0	0	0	0	0	0	0	0
		0	$\frac{\sqrt{5}}{21}$	0	0	0	0	0	0	$\frac{4\sqrt{2}}{231}$	0	0	0	0	0	0	0
		0	0	$\frac{\sqrt{6}}{42}$	0	0	0	0	0	0	$-\frac{4\sqrt{2}}{231}$	0	0	0	0	0	0
		0	0	0	$-\frac{\sqrt{2}}{42}$	0	0	0	0	0	0	$-\frac{2\sqrt{6}}{77}$	0	0	0	0	0
		0	0	0	0	$-\frac{\sqrt{7}}{21}$	0	0	0	0	0	0	0	$-\frac{2\sqrt{70}}{231}$	0	0	0

continued ...

Table 10

No.	multipole	matrix											
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{\sqrt{21}}{42}$	0	0	0	0	0
		$-\frac{10\sqrt{2}}{63}$	0	0	0	0	0	0	$-\frac{\sqrt{3}}{14}$	0	0	0	0
		0	$-\frac{8\sqrt{5}}{63}$	0	0	0	0	0	0	$-\frac{\sqrt{2}}{14}$	0	0	0
		0	0	$-\frac{10\sqrt{2}}{63}$	0	0	0	0	0	0	$-\frac{\sqrt{6}}{42}$	0	0
1013	$M_{3,-3}^{(1,1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{4\sqrt{7}}{231}$	0	0	0	0	0
		$\frac{\sqrt{6}}{42}$	0	0	0	0	0	0	$\frac{16}{231}$	0	0	0	0
		0	$\frac{\sqrt{2}}{14}$	0	0	0	0	0	0	$\frac{8\sqrt{5}}{231}$	0	0	0
		0	0	$\frac{\sqrt{3}}{14}$	0	0	0	0	0	0	$\frac{16}{231}$	0	0
		0	0	0	$\frac{\sqrt{21}}{42}$	0	0	0	0	0	0	$\frac{4\sqrt{7}}{231}$	0

continued ...

Table 10

No.	multipole	matrix													
		0	0	0	0	0	$-\frac{20\sqrt{546}}{1001}$	0	0	0	0	0	0	$\frac{25\sqrt{91}}{3003}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{5\sqrt{65}}{429}$
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
1014	$M_{5,5}^{(1,1;a)}$	0	0	0	0	0	$-\frac{5\sqrt{65}}{429}$	0	0	0	0	0	$\frac{10\sqrt{26}}{1859}$	0	
		0	0	0	0	0	$-\frac{25\sqrt{91}}{3003}$	0	0	0	0	0	0	$\frac{20\sqrt{546}}{13013}$	
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{10\sqrt{26}}{1859}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	

continued ...

Table 10

No.	multipole	matrix													
		0	0	0	0	$\frac{20\sqrt{273}}{1001}$	0	0	0	0	0	0	$-\frac{5\sqrt{2730}}{3003}$	0	0
		0	0	0	0	0	$-\frac{20\sqrt{273}}{1001}$	0	0	0	0	0	0	$-\frac{5\sqrt{182}}{3003}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{10\sqrt{13}}{429}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
1015	$M_{5,4}^{(1,1;a)}$	0	0	0	0	$\frac{10\sqrt{13}}{429}$	0	0	0	0	0	$-\frac{10\sqrt{39}}{1859}$	0	0	0
		0	0	0	0	$-\frac{5\sqrt{182}}{3003}$	0	0	0	0	0	0	$-\frac{10\sqrt{455}}{13013}$	0	0
		0	0	0	0	0	$-\frac{5\sqrt{2730}}{3003}$	0	0	0	0	0	0	$\frac{10\sqrt{455}}{13013}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{10\sqrt{39}}{1859}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix													
1016	$M_{5,3}^{(1,1;a)}$	0	0	0	$-\frac{40\sqrt{273}}{3003}$	0	0	0	0	0	$\frac{25\sqrt{91}}{3003}$	0	0	0	
		0	0	0	0	$\frac{20\sqrt{2730}}{3003}$	0	0	0	0	0	$-\frac{5\sqrt{273}}{3003}$	0	0	
		0	0	0	0	0	$-\frac{40\sqrt{273}}{3003}$	0	0	0	0	0	$-\frac{5\sqrt{182}}{1001}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{5\sqrt{26}}{429}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	$-\frac{5\sqrt{26}}{429}$	0	0	0	0	0	0	$\frac{20\sqrt{78}}{5577}$	0	0	0	0
		0	0	0	$\frac{5\sqrt{182}}{1001}$	0	0	0	0	0	$-\frac{10\sqrt{546}}{39039}$	0	0	0	0
		0	0	0	0	$\frac{5\sqrt{273}}{3003}$	0	0	0	0	0	$-\frac{20\sqrt{2730}}{39039}$	0	0	0
		0	0	0	0	0	$-\frac{25\sqrt{91}}{3003}$	0	0	0	0	0	$-\frac{10\sqrt{546}}{39039}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{20\sqrt{78}}{5577}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix														
1017	$M_{5,2}^{(1,1;a)}$	0	0	$\frac{10\sqrt{182}}{1001}$	0	0	0	0	0	$-\frac{25\sqrt{546}}{9009}$	0	0	0	0		
		0	0	0	$-\frac{10\sqrt{910}}{1001}$	0	0	0	0	0	$\frac{10\sqrt{2730}}{9009}$	0	0	0	0	
		0	0	0	0	$\frac{10\sqrt{910}}{1001}$	0	0	0	0	0	$\frac{10\sqrt{91}}{3003}$	0	0	0	
		0	0	0	0	0	$-\frac{10\sqrt{182}}{1001}$	0	0	0	0	0	$-\frac{40\sqrt{273}}{9009}$	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{5\sqrt{78}}{1287}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	$\frac{5\sqrt{78}}{1287}$	0	0	0	0	0	0	$-\frac{10\sqrt{195}}{5577}$	0	0	0	0	0	0
		0	0	$-\frac{40\sqrt{273}}{9009}$	0	0	0	0	0	0	$\frac{30\sqrt{91}}{13013}$	0	0	0	0	0
		0	0	0	$\frac{10\sqrt{91}}{3003}$	0	0	0	0	0	0	$\frac{40\sqrt{273}}{39039}$	0	0	0	0
		0	0	0	0	$\frac{10\sqrt{2730}}{9009}$	0	0	0	0	0	0	$-\frac{40\sqrt{273}}{39039}$	0	0	0
		0	0	0	0	0	$-\frac{25\sqrt{546}}{9009}$	0	0	0	0	0	0	$-\frac{30\sqrt{91}}{13013}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{10\sqrt{195}}{5577}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix													
1018	$M_{5,1}^{(1,1;a)}$	0	$-\frac{20\sqrt{13}}{1001}$	0	0	0	0	0	0	$\frac{25\sqrt{130}}{6006}$	0	0	0	0	
		0	0	$\frac{20\sqrt{130}}{1001}$	0	0	0	0	0	0	$-\frac{5\sqrt{390}}{1386}$	0	0	0	0
		0	0	0	$-\frac{40\sqrt{65}}{1001}$	0	0	0	0	0	0	$\frac{5\sqrt{195}}{9009}$	0	0	0
		0	0	0	0	$\frac{20\sqrt{130}}{1001}$	0	0	0	0	0	0	$\frac{5\sqrt{13}}{273}$	0	0
		0	0	0	0	0	$-\frac{20\sqrt{13}}{1001}$	0	0	0	0	0	0	$-\frac{115\sqrt{78}}{18018}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{5\sqrt{2730}}{18018}$
		$-\frac{5\sqrt{2730}}{18018}$	0	0	0	0	0	0	$\frac{10\sqrt{455}}{13013}$	0	0	0	0	0	0
		0	$\frac{115\sqrt{78}}{18018}$	0	0	0	0	0	0	$-\frac{80\sqrt{195}}{39039}$	0	0	0	0	0
		0	0	$-\frac{5\sqrt{13}}{273}$	0	0	0	0	0	0	$\frac{10\sqrt{39}}{39039}$	0	0	0	0
		0	0	0	$-\frac{5\sqrt{195}}{9009}$	0	0	0	0	0	0	$\frac{40\sqrt{65}}{13013}$	0	0	0
		0	0	0	0	$\frac{5\sqrt{390}}{1386}$	0	0	0	0	0	0	$\frac{10\sqrt{39}}{39039}$	0	0
		0	0	0	0	0	$-\frac{25\sqrt{130}}{6006}$	0	0	0	0	0	0	$-\frac{80\sqrt{195}}{39039}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{10\sqrt{455}}{13013}$
0	0	0	0	0	0	0	0	0	0	0	0	0	0		

continued ...

Table 10

No.	multipole	matrix													
1019	$M_{5,0}^{(1,1;a)}$	$\frac{10\sqrt{78}}{3003}$	0	0	0	0	0	0	$-\frac{25\sqrt{13}}{3003}$	0	0	0	0	0	
		0	$-\frac{50\sqrt{78}}{3003}$	0	0	0	0	0	0	$\frac{5\sqrt{195}}{1001}$	0	0	0	0	
		0	0	$\frac{100\sqrt{78}}{3003}$	0	0	0	0	0	0	$-\frac{25\sqrt{26}}{3003}$	0	0	0	0
		0	0	0	$-\frac{100\sqrt{78}}{3003}$	0	0	0	0	0	0	$-\frac{25\sqrt{26}}{3003}$	0	0	0
		0	0	0	0	$\frac{50\sqrt{78}}{3003}$	0	0	0	0	0	0	$\frac{5\sqrt{195}}{1001}$	0	0
		0	0	0	0	0	$-\frac{10\sqrt{78}}{3003}$	0	0	0	0	0	0	$-\frac{25\sqrt{13}}{3003}$	0
		0	0	0	0	0	0	$-\frac{5\sqrt{78}}{5577}$	0	0	0	0	0	0	0
		$-\frac{25\sqrt{13}}{3003}$	0	0	0	0	0	0	$\frac{115\sqrt{78}}{39039}$	0	0	0	0	0	0
		0	$\frac{5\sqrt{195}}{1001}$	0	0	0	0	0	0	$-\frac{85\sqrt{78}}{39039}$	0	0	0	0	0
		0	0	$-\frac{25\sqrt{26}}{3003}$	0	0	0	0	0	0	$-\frac{25\sqrt{78}}{13013}$	0	0	0	0
		0	0	0	$-\frac{25\sqrt{26}}{3003}$	0	0	0	0	0	0	$\frac{25\sqrt{78}}{13013}$	0	0	0
		0	0	0	0	$\frac{5\sqrt{195}}{1001}$	0	0	0	0	0	0	$\frac{85\sqrt{78}}{39039}$	0	0
		0	0	0	0	0	$-\frac{25\sqrt{13}}{3003}$	0	0	0	0	0	0	$-\frac{115\sqrt{78}}{39039}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{5\sqrt{78}}{5577}$

continued ...

Table 10

No.	multipole	matrix															
1020	$M_{5,-1}^{(1,1;a)}$	0	0	0	0	0	0	$\frac{5\sqrt{2730}}{18018}$	0	0	0	0	0	0	0		
		$\frac{20\sqrt{13}}{1001}$	0	0	0	0	0	0	$-\frac{115\sqrt{78}}{18018}$	0	0	0	0	0	0	0	
		0	$-\frac{20\sqrt{130}}{1001}$	0	0	0	0	0	0	0	$\frac{5\sqrt{13}}{273}$	0	0	0	0	0	
		0	0	$\frac{40\sqrt{65}}{1001}$	0	0	0	0	0	0	0	$\frac{5\sqrt{195}}{9009}$	0	0	0	0	
		0	0	0	$-\frac{20\sqrt{130}}{1001}$	0	0	0	0	0	0	0	$-\frac{5\sqrt{390}}{1386}$	0	0	0	
		0	0	0	0	$\frac{20\sqrt{13}}{1001}$	0	0	0	0	0	0	0	$\frac{25\sqrt{130}}{6006}$	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	$-\frac{10\sqrt{455}}{13013}$	0	0	0	0	0	0	0	0
		$-\frac{25\sqrt{130}}{6006}$	0	0	0	0	0	0	0	$\frac{80\sqrt{195}}{39039}$	0	0	0	0	0	0	0
		0	$\frac{5\sqrt{390}}{1386}$	0	0	0	0	0	0	0	$-\frac{10\sqrt{39}}{39039}$	0	0	0	0	0	0
		0	0	$-\frac{5\sqrt{195}}{9009}$	0	0	0	0	0	0	0	$-\frac{40\sqrt{65}}{13013}$	0	0	0	0	0
		0	0	0	$-\frac{5\sqrt{13}}{273}$	0	0	0	0	0	0	0	$-\frac{10\sqrt{39}}{39039}$	0	0	0	0
		0	0	0	0	$\frac{115\sqrt{78}}{18018}$	0	0	0	0	0	0	0	$\frac{80\sqrt{195}}{39039}$	0	0	0
		0	0	0	0	0	$-\frac{5\sqrt{2730}}{18018}$	0	0	0	0	0	0	0	0	$-\frac{10\sqrt{455}}{13013}$	0

continued ...

Table 10

No.	multipole	matrix												
1021	$M_{5,-2}^{(1,1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{5\sqrt{78}}{1287}$	0	0	0	0	0	0
		$\frac{10\sqrt{182}}{1001}$	0	0	0	0	0	0	$-\frac{40\sqrt{273}}{9009}$	0	0	0	0	0
		0	$-\frac{10\sqrt{910}}{1001}$	0	0	0	0	0	0	$\frac{10\sqrt{91}}{3003}$	0	0	0	0
		0	0	$\frac{10\sqrt{910}}{1001}$	0	0	0	0	0	0	$\frac{10\sqrt{2730}}{9009}$	0	0	0
		0	0	0	$-\frac{10\sqrt{182}}{1001}$	0	0	0	0	0	0	$-\frac{25\sqrt{546}}{9009}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{10\sqrt{195}}{5577}$	0	0	0	0	0	0
		$-\frac{25\sqrt{546}}{9009}$	0	0	0	0	0	0	$\frac{30\sqrt{91}}{13013}$	0	0	0	0	0
		0	$\frac{10\sqrt{2730}}{9009}$	0	0	0	0	0	0	$\frac{40\sqrt{273}}{39039}$	0	0	0	0
		0	0	$\frac{10\sqrt{91}}{3003}$	0	0	0	0	0	0	$-\frac{40\sqrt{273}}{39039}$	0	0	0
		0	0	0	$-\frac{40\sqrt{273}}{9009}$	0	0	0	0	0	0	$-\frac{30\sqrt{91}}{13013}$	0	0
		0	0	0	0	0	$\frac{5\sqrt{78}}{1287}$	0	0	0	0	0	$\frac{10\sqrt{195}}{5577}$	0

continued ...

Table 10

No.	multipole	matrix													
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{5\sqrt{65}}{429}$	0	0	0	0	0	0	0
		$\frac{20\sqrt{546}}{1001}$	0	0	0	0	0	0	$\frac{25\sqrt{91}}{3003}$	0	0	0	0	0	0
1024	$M_{5,-5}^{(1,1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{10\sqrt{26}}{1859}$	0	0	0	0	0	0	0
		$-\frac{25\sqrt{91}}{3003}$	0	0	0	0	0	0	$-\frac{20\sqrt{546}}{13013}$	0	0	0	0	0	0
		0	$-\frac{5\sqrt{65}}{429}$	0	0	0	0	0	0	$-\frac{10\sqrt{26}}{1859}$	0	0	0	0	0