MSG No. 202.24 $Fm'\bar{3}'$ [Type III, cubic]

Table 1: Wyckoff site: `4a`, site symmetry: `m'-3'`.

No.	position	mapping
1	[0, 0, 0]	[1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24]
2	$\left[0, \frac{1}{2}, \frac{1}{2}\right]$	[25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48]
3	$\left[\frac{1}{2}, 0, \frac{1}{2}\right]$	[49,50,51,52,53,54,55,56,57,58,59,60,61,62,63,64,65,66,67,68,69,70,71,72]
4	$\left[\frac{1}{2}, \frac{1}{2}, 0\right]$	[73,74,75,76,77,78,79,80,81,82,83,84,85,86,87,88,89,90,91,92,93,94,95,96]

Table 2: Wyckoff site: `4b`, site symmetry: `m'-3'`.

No.	position	mapping
1	$\left[\frac{1}{2}, \frac{1}{2}, \frac{1}{2}\right]$	[1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24]
2	$\left[\frac{1}{2}, 0, 0\right]$	[25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48]
3	$\left[0, \frac{1}{2}, 0\right]$	[49,50,51,52,53,54,55,56,57,58,59,60,61,62,63,64,65,66,67,68,69,70,71,72]
4	$\left[0, 0, \frac{1}{2}\right]$	[73,74,75,76,77,78,79,80,81,82,83,84,85,86,87,88,89,90,91,92,93,94,95,96]

Table 3: Wyckoff site: `8c`, site symmetry: `23`.

No.	position	mapping
1	$\left[\frac{1}{4}, \frac{1}{4}, \frac{1}{4}\right]$	[1,5,6,26,34,35,51,55,60,76,80,81]
2	$\left[\frac{1}{4}, \frac{3}{4}, \frac{3}{4}\right]$	[2,10,11,25,29,30,52,56,57,75,79,84]
3	$\left[\frac{3}{4}, \frac{1}{4}, \frac{3}{4}\right]$	[3,7,12,28,32,33,49,53,54,74,82,83]
4	$\left[\frac{3}{4}, \frac{3}{4}, \frac{1}{4}\right]$	[4,8,9,27,31,36,50,58,59,73,77,78]
5	$\left[\frac{3}{4}, \frac{3}{4}, \frac{3}{4}\right]$	[13,17,18,38,46,47,63,67,72,88,92,93]
6	$\left[\frac{3}{4}, \frac{1}{4}, \frac{1}{4}\right]$	[14,22,23,37,41,42,64,68,69,87,91,96]
7	$\left[\frac{1}{4}, \frac{3}{4}, \frac{1}{4}\right]$	[15,19,24,40,44,45,61,65,66,86,94,95]
8	$\left[\frac{1}{4}, \frac{1}{4}, \frac{3}{4}\right]$	[16,20,21,39,43,48,62,70,71,85,89,90]

Table 4: Wyckoff site: `24d`, site symmetry: `2/m'..`.

No.	position	mapping
1	$\left[0, \frac{1}{4}, \frac{1}{4}\right]$	[1,14,26,37]
2	$\left[0, \frac{3}{4}, \frac{3}{4}\right]$	[2,13,25,38]
3	$\left[0, \frac{1}{4}, \frac{3}{4}\right]$	[3,16,28,39]
4	$\left[0, \frac{3}{4}, \frac{1}{4}\right]$	[4,15,27,40]
5	$\left[\frac{1}{4}, 0, \frac{1}{4}\right]$	[5,24,60,65]
6	$\left[\frac{1}{4}, \frac{1}{4}, 0\right]$	[6,21,81,90]
7	$\left[\frac{3}{4}, \frac{1}{4}, 0\right]$	[7,23,83,91]
8	$\left[\frac{3}{4}, 0, \frac{1}{4}\right]$	[8,22,58,68]
9	$\left[\frac{3}{4}, \frac{3}{4}, 0\right]$	[9,18,78,93]

continued ...

Table 4

No.	position	mapping
10	$\left[\frac{1}{4}, 0, \frac{3}{4}\right]$	`[10,20,56,70]`
11	$\left[\frac{1}{4}, \frac{3}{4}, 0\right]$	`[11,19,79,95]`
12	$\left[\frac{3}{4}, 0, \frac{3}{4}\right]$	`[12,17,53,72]`
13	$\left[\frac{1}{4}, \frac{1}{2}, \frac{3}{4}\right]$	`[29,48,84,89]`
14	$\left[\frac{1}{4}, \frac{3}{4}, \frac{1}{2}\right]$	`[30,45,57,66]`
15	$\left[\frac{3}{4}, \frac{3}{4}, \frac{1}{2}\right]$	`[31,47,59,67]`
16	$\left[\frac{3}{4}, \frac{1}{2}, \frac{3}{4}\right]$	`[32,46,82,92]`
17	$\left[\frac{3}{4}, \frac{1}{4}, \frac{1}{2}\right]$	`[33,42,54,69]`
18	$\left[\frac{1}{4}, \frac{1}{2}, \frac{1}{4}\right]$	`[34,44,80,94]`
19	$\left[\frac{1}{4}, \frac{1}{4}, \frac{1}{2}\right]$	`[35,43,55,71]`
20	$\left[\frac{3}{4}, \frac{1}{2}, \frac{1}{4}\right]$	`[36,41,77,96]`
21	$\left[\frac{1}{2}, \frac{1}{4}, \frac{3}{4}\right]$	`[49,62,74,85]`
22	$\left[\frac{1}{2}, \frac{3}{4}, \frac{1}{4}\right]$	`[50,61,73,86]`
23	$\left[\frac{1}{2}, \frac{1}{4}, \frac{1}{4}\right]$	`[51,64,76,87]`
24	$\left[\frac{1}{2}, \frac{3}{4}, \frac{3}{4}\right]$	`[52,63,75,88]`

Table 5: Wyckoff site: `24e`, site symmetry: `2m'm'..`

No.	position	mapping
1	$[x, 0, 0]$	`[1,2,15,16]`
2	$[-x, 0, 0]$	`[3,4,13,14]`
3	$[0, x, 0]$	`[5,12,20,22]`
4	$[0, 0, x]$	`[6,9,19,23]`
5	$[0, 0, -x]$	`[7,11,18,21]`
6	$[0, -x, 0]$	`[8,10,17,24]`
7	$\left[x, \frac{1}{2}, \frac{1}{2}\right]$	`[25,26,39,40]`
8	$\left[-x, \frac{1}{2}, \frac{1}{2}\right]$	`[27,28,37,38]`
9	$\left[0, x+\frac{1}{2}, \frac{1}{2}\right]$	`[29,36,44,46]`
10	$\left[0, \frac{1}{2}, x+\frac{1}{2}\right]$	`[30,33,43,47]`
11	$\left[0, \frac{1}{2}, \frac{1}{2}-x\right]$	`[31,35,42,45]`
12	$\left[0, \frac{1}{2}-x, \frac{1}{2}\right]$	`[32,34,41,48]`
13	$\left[x+\frac{1}{2}, 0, \frac{1}{2}\right]$	`[49,50,63,64]`
14	$\left[\frac{1}{2}-x, 0, \frac{1}{2}\right]$	`[51,52,61,62]`
15	$\left[\frac{1}{2}, x, \frac{1}{2}\right]$	`[53,60,68,70]`
16	$\left[\frac{1}{2}, 0, x+\frac{1}{2}\right]$	`[54,57,67,71]`
17	$\left[\frac{1}{2}, 0, \frac{1}{2}-x\right]$	`[55,59,66,69]`
18	$\left[\frac{1}{2}, -x, \frac{1}{2}\right]$	`[56,58,65,72]`
19	$\left[x+\frac{1}{2}, \frac{1}{2}, 0\right]$	`[73,74,87,88]`
20	$\left[\frac{1}{2}-x, \frac{1}{2}, 0\right]$	`[75,76,85,86]`
21	$\left[\frac{1}{2}, x+\frac{1}{2}, 0\right]$	`[77,84,92,94]`
22	$\left[\frac{1}{2}, \frac{1}{2}, x\right]$	`[78,81,91,95]`
23	$\left[\frac{1}{2}, \frac{1}{2}, -x\right]$	`[79,83,90,93]`
24	$\left[\frac{1}{2}, \frac{1}{2}-x, 0\right]$	`[80,82,89,96]`

Table 6: Wyckoff site: `32f`, site symmetry: `.3.`

No.	position	mapping
1	$[x,\ x,\ x]$	`[1,5,6]`
2	$[x,\ -x,\ -x]$	`[2,10,11]`
3	$[-x,\ x,\ -x]$	`[3,7,12]`
4	$[-x,\ -x,\ x]$	`[4,8,9]`
5	$[-x,\ -x,\ -x]$	`[13,17,18]`
6	$[-x,\ x,\ x]$	`[14,22,23]`
7	$[x,\ -x,\ x]$	`[15,19,24]`
8	$[x,\ x,\ -x]$	`[16,20,21]`
9	$\left[x,\ x+\frac{1}{2},\ x+\frac{1}{2}\right]$	`[25,29,30]`
10	$\left[x,\ \frac{1}{2}-x,\ \frac{1}{2}-x\right]$	`[26,34,35]`
11	$\left[-x,\ x+\frac{1}{2},\ \frac{1}{2}-x\right]$	`[27,31,36]`
12	$\left[-x,\ \frac{1}{2}-x,\ x+\frac{1}{2}\right]$	`[28,32,33]`
13	$\left[-x,\ \frac{1}{2}-x,\ \frac{1}{2}-x\right]$	`[37,41,42]`
14	$\left[-x,\ x+\frac{1}{2},\ x+\frac{1}{2}\right]$	`[38,46,47]`
15	$\left[x,\ \frac{1}{2}-x,\ x+\frac{1}{2}\right]$	`[39,43,48]`
16	$\left[x,\ x+\frac{1}{2},\ \frac{1}{2}-x\right]$	`[40,44,45]`
17	$\left[x+\frac{1}{2},\ x,\ x+\frac{1}{2}\right]$	`[49,53,54]`
18	$\left[x+\frac{1}{2},\ -x,\ \frac{1}{2}-x\right]$	`[50,58,59]`
19	$\left[\frac{1}{2}-x,\ x,\ \frac{1}{2}-x\right]$	`[51,55,60]`
20	$\left[\frac{1}{2}-x,\ -x,\ x+\frac{1}{2}\right]$	`[52,56,57]`
21	$\left[\frac{1}{2}-x,\ -x,\ \frac{1}{2}-x\right]$	`[61,65,66]`
22	$\left[\frac{1}{2}-x,\ x,\ x+\frac{1}{2}\right]$	`[62,70,71]`
23	$\left[x+\frac{1}{2},\ -x,\ x+\frac{1}{2}\right]$	`[63,67,72]`
24	$\left[x+\frac{1}{2},\ x,\ \frac{1}{2}-x\right]$	`[64,68,69]`
25	$\left[x+\frac{1}{2},\ x+\frac{1}{2},\ x\right]$	`[73,77,78]`
26	$\left[x+\frac{1}{2},\ \frac{1}{2}-x,\ -x\right]$	`[74,82,83]`
27	$\left[\frac{1}{2}-x,\ x+\frac{1}{2},\ -x\right]$	`[75,79,84]`
28	$\left[\frac{1}{2}-x,\ \frac{1}{2}-x,\ x\right]$	`[76,80,81]`
29	$\left[\frac{1}{2}-x,\ \frac{1}{2}-x,\ -x\right]$	`[85,89,90]`
30	$\left[\frac{1}{2}-x,\ x+\frac{1}{2},\ x\right]$	`[86,94,95]`
31	$\left[x+\frac{1}{2},\ \frac{1}{2}-x,\ x\right]$	`[87,91,96]`
32	$\left[x+\frac{1}{2},\ x+\frac{1}{2},\ -x\right]$	`[88,92,93]`

Table 7: Wyckoff site: `48g`, site symmetry: `2..`

No.	position	mapping
1	$\left[x,\ \frac{1}{4},\ \frac{1}{4}\right]$	`[1,26]`
2	$\left[x,\ \frac{3}{4},\ \frac{3}{4}\right]$	`[2,25]`
3	$\left[-x,\ \frac{1}{4},\ \frac{3}{4}\right]$	`[3,28]`
4	$\left[-x,\ \frac{3}{4},\ \frac{1}{4}\right]$	`[4,27]`
5	$\left[\frac{1}{4},\ x,\ \frac{1}{4}\right]$	`[5,60]`
6	$\left[\frac{1}{4},\ \frac{1}{4},\ x\right]$	`[6,81]`
7	$\left[\frac{3}{4},\ \frac{1}{4},\ -x\right]$	`[7,83]`

continued ...

Table 7

No.	position	mapping
8	$\left[\frac{3}{4}, -x, \frac{1}{4}\right]$	[8,58]
9	$\left[\frac{3}{4}, \frac{3}{4}, x\right]$	[9,78]
10	$\left[\frac{1}{4}, -x, \frac{3}{4}\right]$	[10,56]
11	$\left[\frac{1}{4}, \frac{3}{4}, -x\right]$	[11,79]
12	$\left[\frac{3}{4}, x, \frac{3}{4}\right]$	[12,53]
13	$\left[-x, \frac{3}{4}, \frac{3}{4}\right]$	[13,38]
14	$\left[-x, \frac{1}{4}, \frac{1}{4}\right]$	[14,37]
15	$\left[x, \frac{3}{4}, \frac{1}{4}\right]$	[15,40]
16	$\left[x, \frac{1}{4}, \frac{3}{4}\right]$	[16,39]
17	$\left[\frac{3}{4}, -x, \frac{3}{4}\right]$	[17,72]
18	$\left[\frac{3}{4}, \frac{3}{4}, -x\right]$	[18,93]
19	$\left[\frac{1}{4}, \frac{3}{4}, x\right]$	[19,95]
20	$\left[\frac{1}{4}, x, \frac{3}{4}\right]$	[20,70]
21	$\left[\frac{1}{4}, \frac{1}{4}, -x\right]$	[21,90]
22	$\left[\frac{3}{4}, x, \frac{1}{4}\right]$	[22,68]
23	$\left[\frac{3}{4}, \frac{1}{4}, x\right]$	[23,91]
24	$\left[\frac{1}{4}, -x, \frac{1}{4}\right]$	[24,65]
25	$\left[\frac{1}{4}, x+\frac{1}{2}, \frac{3}{4}\right]$	[29,84]
26	$\left[\frac{1}{4}, \frac{3}{4}, x+\frac{1}{2}\right]$	[30,57]
27	$\left[\frac{3}{4}, \frac{3}{4}, \frac{1}{2}-x\right]$	[31,59]
28	$\left[\frac{3}{4}, \frac{1}{2}-x, \frac{3}{4}\right]$	[32,82]
29	$\left[\frac{3}{4}, \frac{1}{4}, x+\frac{1}{2}\right]$	[33,54]
30	$\left[\frac{1}{4}, \frac{1}{2}-x, \frac{1}{4}\right]$	[34,80]
31	$\left[\frac{1}{4}, \frac{1}{4}, \frac{1}{2}-x\right]$	[35,55]
32	$\left[\frac{3}{4}, x+\frac{1}{2}, \frac{1}{4}\right]$	[36,77]
33	$\left[\frac{3}{4}, \frac{1}{2}-x, \frac{1}{4}\right]$	[41,96]
34	$\left[\frac{3}{4}, \frac{1}{4}, \frac{1}{2}-x\right]$	[42,69]
35	$\left[\frac{1}{4}, \frac{1}{4}, x+\frac{1}{2}\right]$	[43,71]
36	$\left[\frac{1}{4}, x+\frac{1}{2}, \frac{1}{4}\right]$	[44,94]
37	$\left[\frac{1}{4}, \frac{3}{4}, \frac{1}{2}-x\right]$	[45,66]
38	$\left[\frac{3}{4}, x+\frac{1}{2}, \frac{3}{4}\right]$	[46,92]
39	$\left[\frac{3}{4}, \frac{3}{4}, x+\frac{1}{2}\right]$	[47,67]
40	$\left[\frac{1}{4}, \frac{1}{2}-x, \frac{3}{4}\right]$	[48,89]
41	$\left[x+\frac{1}{2}, \frac{1}{4}, \frac{3}{4}\right]$	[49,74]
42	$\left[x+\frac{1}{2}, \frac{3}{4}, \frac{1}{4}\right]$	[50,73]
43	$\left[\frac{1}{2}-x, \frac{1}{4}, \frac{1}{4}\right]$	[51,76]
44	$\left[\frac{1}{2}-x, \frac{3}{4}, \frac{3}{4}\right]$	[52,75]
45	$\left[\frac{1}{2}-x, \frac{3}{4}, \frac{1}{4}\right]$	[61,86]
46	$\left[\frac{1}{2}-x, \frac{1}{4}, \frac{3}{4}\right]$	[62,85]
47	$\left[x+\frac{1}{2}, \frac{3}{4}, \frac{3}{4}\right]$	[63,88]
48	$\left[x+\frac{1}{2}, \frac{1}{4}, \frac{1}{4}\right]$	[64,87]

Table 8: Wyckoff site: `48h`, site symmetry: `m'..`

No.	position	mapping
1	$[0,\ y,\ z]$	`[1,14]`
2	$[0,\ -y,\ -z]$	`[2,13]`
3	$[0,\ y,\ -z]$	`[3,16]`
4	$[0,\ -y,\ z]$	`[4,15]`
5	$[z,\ 0,\ y]$	`[5,24]`
6	$[y,\ z,\ 0]$	`[6,21]`
7	$[-y,\ z,\ 0]$	`[7,23]`
8	$[-z,\ 0,\ y]$	`[8,22]`
9	$[-y,\ -z,\ 0]$	`[9,18]`
10	$[z,\ 0,\ -y]$	`[10,20]`
11	$[y,\ -z,\ 0]$	`[11,19]`
12	$[-z,\ 0,\ -y]$	`[12,17]`
13	$\left[0,\ y+\frac{1}{2},\ z+\frac{1}{2}\right]$	`[25,38]`
14	$\left[0,\ \frac{1}{2}-y,\ \frac{1}{2}-z\right]$	`[26,37]`
15	$\left[0,\ y+\frac{1}{2},\ \frac{1}{2}-z\right]$	`[27,40]`
16	$\left[0,\ \frac{1}{2}-y,\ z+\frac{1}{2}\right]$	`[28,39]`
17	$\left[z,\ \frac{1}{2},\ y+\frac{1}{2}\right]$	`[29,48]`
18	$\left[y,\ z+\frac{1}{2},\ \frac{1}{2}\right]$	`[30,45]`
19	$\left[-y,\ z+\frac{1}{2},\ \frac{1}{2}\right]$	`[31,47]`
20	$\left[-z,\ \frac{1}{2},\ y+\frac{1}{2}\right]$	`[32,46]`
21	$\left[-y,\ \frac{1}{2}-z,\ \frac{1}{2}\right]$	`[33,42]`
22	$\left[z,\ \frac{1}{2},\ \frac{1}{2}-y\right]$	`[34,44]`
23	$\left[y,\ \frac{1}{2}-z,\ \frac{1}{2}\right]$	`[35,43]`
24	$\left[-z,\ \frac{1}{2},\ \frac{1}{2}-y\right]$	`[36,41]`
25	$\left[\frac{1}{2},\ y,\ z+\frac{1}{2}\right]$	`[49,62]`
26	$\left[\frac{1}{2},\ -y,\ \frac{1}{2}-z\right]$	`[50,61]`
27	$\left[\frac{1}{2},\ y,\ \frac{1}{2}-z\right]$	`[51,64]`
28	$\left[\frac{1}{2},\ -y,\ z+\frac{1}{2}\right]$	`[52,63]`
29	$\left[z+\frac{1}{2},\ 0,\ y+\frac{1}{2}\right]$	`[53,72]`
30	$\left[y+\frac{1}{2},\ z,\ \frac{1}{2}\right]$	`[54,69]`
31	$\left[\frac{1}{2}-y,\ z,\ \frac{1}{2}\right]$	`[55,71]`
32	$\left[\frac{1}{2}-z,\ 0,\ y+\frac{1}{2}\right]$	`[56,70]`
33	$\left[\frac{1}{2}-y,\ -z,\ \frac{1}{2}\right]$	`[57,66]`
34	$\left[z+\frac{1}{2},\ 0,\ \frac{1}{2}-y\right]$	`[58,68]`
35	$\left[y+\frac{1}{2},\ -z,\ \frac{1}{2}\right]$	`[59,67]`
36	$\left[\frac{1}{2}-z,\ 0,\ \frac{1}{2}-y\right]$	`[60,65]`
37	$\left[\frac{1}{2},\ y+\frac{1}{2},\ z\right]$	`[73,86]`
38	$\left[\frac{1}{2},\ \frac{1}{2}-y,\ -z\right]$	`[74,85]`
39	$\left[\frac{1}{2},\ y+\frac{1}{2},\ -z\right]$	`[75,88]`
40	$\left[\frac{1}{2},\ \frac{1}{2}-y,\ z\right]$	`[76,87]`
41	$\left[z+\frac{1}{2},\ \frac{1}{2},\ y\right]$	`[77,96]`
42	$\left[y+\frac{1}{2},\ z+\frac{1}{2},\ 0\right]$	`[78,93]`
43	$\left[\frac{1}{2}-y,\ z+\frac{1}{2},\ 0\right]$	`[79,95]`
44	$\left[\frac{1}{2}-z,\ \frac{1}{2},\ y\right]$	`[80,94]`
45	$\left[\frac{1}{2}-y,\ \frac{1}{2}-z,\ 0\right]$	`[81,90]`
46	$\left[z+\frac{1}{2},\ \frac{1}{2},\ -y\right]$	`[82,92]`

continued ...

Table 8

No.	position	mapping
47	$\left[y+\frac{1}{2},\ \frac{1}{2}-z,\ 0\right]$	[83,91]
48	$\left[\frac{1}{2}-z,\ \frac{1}{2},\ -y\right]$	[84,89]

Table 9: Wyckoff site: 96i, site symmetry: 1

No.	position	mapping
1	$[x,\ y,\ z]$	[1]
2	$[x,\ -y,\ -z]$	[2]
3	$[-x,\ y,\ -z]$	[3]
4	$[-x,\ -y,\ z]$	[4]
5	$[z,\ x,\ y]$	[5]
6	$[y,\ z,\ x]$	[6]
7	$[-y,\ z,\ -x]$	[7]
8	$[-z,\ -x,\ y]$	[8]
9	$[-y,\ -z,\ x]$	[9]
10	$[z,\ -x,\ -y]$	[10]
11	$[y,\ -z,\ -x]$	[11]
12	$[-z,\ x,\ -y]$	[12]
13	$[-x,\ -y,\ -z]$	[13]
14	$[-x,\ y,\ z]$	[14]
15	$[x,\ -y,\ z]$	[15]
16	$[x,\ y,\ -z]$	[16]
17	$[-z,\ -x,\ -y]$	[17]
18	$[-y,\ -z,\ -x]$	[18]
19	$[y,\ -z,\ x]$	[19]
20	$[z,\ x,\ -y]$	[20]
21	$[y,\ z,\ -x]$	[21]
22	$[-z,\ x,\ y]$	[22]
23	$[-y,\ z,\ x]$	[23]
24	$[z,\ -x,\ y]$	[24]
25	$\left[x,\ y+\frac{1}{2},\ z+\frac{1}{2}\right]$	[25]
26	$\left[x,\ \frac{1}{2}-y,\ \frac{1}{2}-z\right]$	[26]
27	$\left[-x,\ y+\frac{1}{2},\ \frac{1}{2}-z\right]$	[27]
28	$\left[-x,\ \frac{1}{2}-y,\ z+\frac{1}{2}\right]$	[28]
29	$\left[z,\ x+\frac{1}{2},\ y+\frac{1}{2}\right]$	[29]
30	$\left[y,\ z+\frac{1}{2},\ x+\frac{1}{2}\right]$	[30]
31	$\left[-y,\ z+\frac{1}{2},\ \frac{1}{2}-x\right]$	[31]
32	$\left[-z,\ \frac{1}{2}-x,\ y+\frac{1}{2}\right]$	[32]
33	$\left[-y,\ \frac{1}{2}-z,\ x+\frac{1}{2}\right]$	[33]
34	$\left[z,\ \frac{1}{2}-x,\ \frac{1}{2}-y\right]$	[34]
35	$\left[y,\ \frac{1}{2}-z,\ \frac{1}{2}-x\right]$	[35]
36	$\left[-z,\ x+\frac{1}{2},\ \frac{1}{2}-y\right]$	[36]
37	$\left[-x,\ \frac{1}{2}-y,\ \frac{1}{2}-z\right]$	[37]
38	$\left[-x,\ y+\frac{1}{2},\ z+\frac{1}{2}\right]$	[38]

continued ...

Table 9

No.	position	mapping
39	$\left[x,\ \frac{1}{2}-y,\ z+\frac{1}{2}\right]$	[39]
40	$\left[x,\ y+\frac{1}{2},\ \frac{1}{2}-z\right]$	[40]
41	$\left[-z,\ \frac{1}{2}-x,\ \frac{1}{2}-y\right]$	[41]
42	$\left[-y,\ \frac{1}{2}-z,\ \frac{1}{2}-x\right]$	[42]
43	$\left[y,\ \frac{1}{2}-z,\ x+\frac{1}{2}\right]$	[43]
44	$\left[z,\ x+\frac{1}{2},\ \frac{1}{2}-y\right]$	[44]
45	$\left[y,\ z+\frac{1}{2},\ \frac{1}{2}-x\right]$	[45]
46	$\left[-z,\ x+\frac{1}{2},\ y+\frac{1}{2}\right]$	[46]
47	$\left[-y,\ z+\frac{1}{2},\ x+\frac{1}{2}\right]$	[47]
48	$\left[z,\ \frac{1}{2}-x,\ y+\frac{1}{2}\right]$	[48]
49	$\left[x+\frac{1}{2},\ y,\ z+\frac{1}{2}\right]$	[49]
50	$\left[x+\frac{1}{2},\ -y,\ \frac{1}{2}-z\right]$	[50]
51	$\left[\frac{1}{2}-x,\ y,\ \frac{1}{2}-z\right]$	[51]
52	$\left[\frac{1}{2}-x,\ -y,\ z+\frac{1}{2}\right]$	[52]
53	$\left[z+\frac{1}{2},\ x,\ y+\frac{1}{2}\right]$	[53]
54	$\left[y+\frac{1}{2},\ z,\ x+\frac{1}{2}\right]$	[54]
55	$\left[\frac{1}{2}-y,\ z,\ \frac{1}{2}-x\right]$	[55]
56	$\left[\frac{1}{2}-z,\ -x,\ y+\frac{1}{2}\right]$	[56]
57	$\left[\frac{1}{2}-y,\ -z,\ x+\frac{1}{2}\right]$	[57]
58	$\left[z+\frac{1}{2},\ -x,\ \frac{1}{2}-y\right]$	[58]
59	$\left[y+\frac{1}{2},\ -z,\ \frac{1}{2}-x\right]$	[59]
60	$\left[\frac{1}{2}-z,\ x,\ \frac{1}{2}-y\right]$	[60]
61	$\left[\frac{1}{2}-x,\ -y,\ \frac{1}{2}-z\right]$	[61]
62	$\left[\frac{1}{2}-x,\ y,\ z+\frac{1}{2}\right]$	[62]
63	$\left[x+\frac{1}{2},\ -y,\ z+\frac{1}{2}\right]$	[63]
64	$\left[x+\frac{1}{2},\ y,\ \frac{1}{2}-z\right]$	[64]
65	$\left[\frac{1}{2}-z,\ -x,\ \frac{1}{2}-y\right]$	[65]
66	$\left[\frac{1}{2}-y,\ -z,\ \frac{1}{2}-x\right]$	[66]
67	$\left[y+\frac{1}{2},\ -z,\ x+\frac{1}{2}\right]$	[67]
68	$\left[z+\frac{1}{2},\ x,\ \frac{1}{2}-y\right]$	[68]
69	$\left[y+\frac{1}{2},\ z,\ \frac{1}{2}-x\right]$	[69]
70	$\left[\frac{1}{2}-z,\ x,\ y+\frac{1}{2}\right]$	[70]
71	$\left[\frac{1}{2}-y,\ z,\ x+\frac{1}{2}\right]$	[71]
72	$\left[z+\frac{1}{2},\ -x,\ y+\frac{1}{2}\right]$	[72]
73	$\left[x+\frac{1}{2},\ y+\frac{1}{2},\ z\right]$	[73]
74	$\left[x+\frac{1}{2},\ \frac{1}{2}-y,\ -z\right]$	[74]
75	$\left[\frac{1}{2}-x,\ y+\frac{1}{2},\ -z\right]$	[75]
76	$\left[\frac{1}{2}-x,\ \frac{1}{2}-y,\ z\right]$	[76]
77	$\left[z+\frac{1}{2},\ x+\frac{1}{2},\ y\right]$	[77]
78	$\left[y+\frac{1}{2},\ z+\frac{1}{2},\ x\right]$	[78]
79	$\left[\frac{1}{2}-y,\ z+\frac{1}{2},\ -x\right]$	[79]
80	$\left[\frac{1}{2}-z,\ \frac{1}{2}-x,\ y\right]$	[80]
81	$\left[\frac{1}{2}-y,\ \frac{1}{2}-z,\ x\right]$	[81]
82	$\left[z+\frac{1}{2},\ \frac{1}{2}-x,\ -y\right]$	[82]
83	$\left[y+\frac{1}{2},\ \frac{1}{2}-z,\ -x\right]$	[83]
84	$\left[\frac{1}{2}-z,\ x+\frac{1}{2},\ -y\right]$	[84]
85	$\left[\frac{1}{2}-x,\ \frac{1}{2}-y,\ -z\right]$	[85]

continued ...

Table 9

No.	position	mapping
86	$\left[\frac{1}{2}-x,\, y+\frac{1}{2},\, z\right]$	[86]
87	$\left[x+\frac{1}{2},\, \frac{1}{2}-y,\, z\right]$	[87]
88	$\left[x+\frac{1}{2},\, y+\frac{1}{2},\, -z\right]$	[88]
89	$\left[\frac{1}{2}-z,\, \frac{1}{2}-x,\, -y\right]$	[89]
90	$\left[\frac{1}{2}-y,\, \frac{1}{2}-z,\, -x\right]$	[90]
91	$\left[y+\frac{1}{2},\, \frac{1}{2}-z,\, x\right]$	[91]
92	$\left[z+\frac{1}{2},\, x+\frac{1}{2},\, -y\right]$	[92]
93	$\left[y+\frac{1}{2},\, z+\frac{1}{2},\, -x\right]$	[93]
94	$\left[\frac{1}{2}-z,\, x+\frac{1}{2},\, y\right]$	[94]
95	$\left[\frac{1}{2}-y,\, z+\frac{1}{2},\, x\right]$	[95]
96	$\left[z+\frac{1}{2},\, \frac{1}{2}-x,\, y\right]$	[96]