MSG No. 226.124 $Fm'\bar{3}'c$ [Type III, cubic]

Table 1: Wyckoff site: 8a, site symmetry: 4'32'

No.	position	mapping
1	$\left[\frac{1}{4}, \frac{1}{4}, \frac{1}{4}\right]$	[1,5,6,32,34,36,50,58,59,76,77,81,99,103,108,121,126,131,148,152,153,170,171,175]
2	$\left[\frac{1}{4}, \frac{3}{4}, \frac{3}{4}\right]$	[2,10,11,28,29,33,49,53,54,80,82,84,100,104,105,122,123,127,147,151,156,169,174,179]
3	$\left[\frac{3}{4}, \frac{1}{4}, \frac{3}{4}\right]$	[3,7,12,25,30,35,52,56,57,74,75,79,97,101,102,128,130,132,146,154,155,172,173,177]
4	$\left[\frac{3}{4}, \frac{3}{4}, \frac{1}{4}\right]$	[4,8,9,26,27,31,51,55,60,73,78,83,98,106,107,124,125,129,145,149,150,176,178,180]
5	$\left[\frac{1}{4}, \frac{3}{4}, \frac{1}{4}\right]$	[13,18,23,39,43,48,62,63,67,88,92,93,116,118,120,133,137,138,160,161,165,182,190,191]
6	$\left[\frac{1}{4}, \frac{1}{4}, \frac{3}{4}\right]$	[14,15,19,40,44,45,61,66,71,87,91,96,112,113,117,134,142,143,164,166,168,181,185,186]
7	$\left[\frac{3}{4}, \frac{1}{4}, \frac{1}{4}\right]$	[16,17,21,38,46,47,68,70,72,85,89,90,110,111,115,136,140,141,157,162,167,183,187,192]
8	$\left[\frac{3}{4}, \frac{3}{4}, \frac{3}{4}\right]$	[20,22,24,37,41,42,64,65,69,86,94,95,109,114,119,135,139,144,158,159,163,184,188,189]

Table 2: Wyckoff site: 8b, site symmetry: m'-3'.

No.	position	mapping
1	$[0, 0, 0]$	[1,2,3,4,5,6,7,8,9,10,11,12,37,38,39,40,41,42,43,44,45,46,47,48]
2	$\left[\frac{1}{2}, \frac{1}{2}, \frac{1}{2}\right]$	[13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36]
3	$\left[0, \frac{1}{2}, \frac{1}{2}\right]$	[49,50,51,52,53,54,55,56,57,58,59,60,85,86,87,88,89,90,91,92,93,94,95,96]
4	$\left[\frac{1}{2}, 0, 0\right]$	[61,62,63,64,65,66,67,68,69,70,71,72,73,74,75,76,77,78,79,80,81,82,83,84]
5	$\left[\frac{1}{2}, 0, \frac{1}{2}\right]$	[97,98,99,100,101,102,103,104,105,106,107,108,133,134,135,136,137,138,139,140,141,142,143,144]
6	$\left[0, \frac{1}{2}, 0\right]$	[109,110,111,112,113,114,115,116,117,118,119,120,121,122,123,124,125,126,127,128,129,130,131,132]
7	$\left[\frac{1}{2}, \frac{1}{2}, 0\right]$	[145,146,147,148,149,150,151,152,153,154,155,156,181,182,183,184,185,186,187,188,189,190,191,192]
8	$\left[0, 0, \frac{1}{2}\right]$	[157,158,159,160,161,162,163,164,165,166,167,168,169,170,171,172,173,174,175,176,177,178,179,180]

Table 3: Wyckoff site: 24c, site symmetry: -4m'.2'

No.	position	mapping
1	$\left[\frac{1}{4}, 0, 0\right]$	[1,2,39,40,61,62,81,82]
2	$\left[\frac{3}{4}, 0, 0\right]$	[3,4,37,38,69,70,73,74]
3	$\left[0, \frac{1}{4}, 0\right]$	[5,12,44,46,113,115,126,128]
4	$\left[0, 0, \frac{1}{4}\right]$	[6,9,43,47,160,167,171,180]
5	$\left[0, 0, \frac{3}{4}\right]$	[7,11,42,45,159,168,172,179]
6	$\left[0, \frac{3}{4}, 0\right]$	[8,10,41,48,114,116,125,127]
7	$\left[\frac{1}{4}, \frac{1}{2}, \frac{1}{2}\right]$	[13,14,33,34,49,50,87,88]
8	$\left[\frac{1}{2}, \frac{1}{2}, \frac{3}{4}\right]$	[15,24,28,35,151,155,186,189]
9	$\left[\frac{1}{2}, \frac{1}{2}, \frac{1}{4}\right]$	[16,23,27,36,150,153,187,191]
10	$\left[\frac{1}{2}, \frac{1}{4}, \frac{1}{2}\right]$	[17,19,30,32,101,108,140,142]
11	$\left[\frac{1}{2}, \frac{3}{4}, \frac{1}{2}\right]$	[18,20,29,31,104,106,137,144]
12	$\left[\frac{3}{4}, \frac{1}{2}, \frac{1}{2}\right]$	[21,22,25,26,51,52,85,86]
13	$\left[0, \frac{3}{4}, \frac{1}{2}\right]$	[53,60,92,94,161,163,174,176]
14	$\left[0, \frac{1}{2}, \frac{3}{4}\right]$	[54,57,91,95,112,119,123,132]
15	$\left[0, \frac{1}{2}, \frac{1}{4}\right]$	[55,59,90,93,111,120,124,131]

continued ...

Table 3

No.	position	mapping
16	$\left[0, \frac{1}{4}, \frac{1}{2}\right]$	[56,58,89,96,162,164,173,175]
17	$\left[\frac{1}{2}, 0, \frac{1}{4}\right]$	[63,72,76,83,103,107,138,141]
18	$\left[\frac{1}{2}, 0, \frac{3}{4}\right]$	[64,71,75,84,102,105,139,143]
19	$\left[\frac{1}{2}, \frac{3}{4}, 0\right]$	[65,67,78,80,149,156,188,190]
20	$\left[\frac{1}{2}, \frac{1}{4}, 0\right]$	[66,68,77,79,152,154,185,192]
21	$\left[\frac{3}{4}, 0, \frac{1}{2}\right]$	[97,98,135,136,157,158,177,178]
22	$\left[\frac{1}{4}, 0, \frac{1}{2}\right]$	[99,100,133,134,165,166,169,170]
23	$\left[\frac{3}{4}, \frac{1}{2}, 0\right]$	[109,110,129,130,145,146,183,184]
24	$\left[\frac{1}{4}, \frac{1}{2}, 0\right]$	[117,118,121,122,147,148,181,182]

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

No.	position	mapping
1	$\left[0, \frac{1}{4}, \frac{1}{4}\right]$	[1,38,50,85,110,121,157,170]
2	$\left[0, \frac{3}{4}, \frac{3}{4}\right]$	[2,37,49,86,109,122,158,169]
3	$\left[0, \frac{1}{4}, \frac{3}{4}\right]$	[3,40,52,87,117,130,166,177]
4	$\left[0, \frac{3}{4}, \frac{1}{4}\right]$	[4,39,51,88,118,129,165,178]
5	$\left[\frac{1}{4}, 0, \frac{1}{4}\right]$	[5,48,67,77,108,137,161,175]
6	$\left[\frac{1}{4}, \frac{1}{4}, 0\right]$	[6,45,71,76,112,131,153,186]
7	$\left[\frac{3}{4}, \frac{1}{4}, 0\right]$	[7,47,72,75,111,132,155,187]
8	$\left[\frac{3}{4}, 0, \frac{1}{4}\right]$	[8,46,68,78,106,140,162,176]
9	$\left[\frac{3}{4}, \frac{3}{4}, 0\right]$	[9,42,64,83,119,124,150,189]
10	$\left[\frac{1}{4}, 0, \frac{3}{4}\right]$	[10,44,66,80,104,142,164,174]
11	$\left[\frac{1}{4}, \frac{3}{4}, 0\right]$	[11,43,63,84,120,123,151,191]
12	$\left[\frac{3}{4}, 0, \frac{3}{4}\right]$	[12,41,65,79,101,144,163,173]
13	$\left[\frac{1}{2}, \frac{3}{4}, \frac{1}{4}\right]$	[13,26,62,73,98,133,145,182]
14	$\left[\frac{1}{2}, \frac{1}{4}, \frac{3}{4}\right]$	[14,25,61,74,97,134,146,181]
15	$\left[\frac{1}{4}, \frac{1}{4}, \frac{1}{2}\right]$	[15,36,59,91,103,143,168,171]
16	$\left[\frac{3}{4}, \frac{1}{4}, \frac{1}{2}\right]$	[16,35,57,90,102,141,167,172]
17	$\left[\frac{3}{4}, \frac{1}{2}, \frac{1}{4}\right]$	[17,31,60,89,115,125,149,192]
18	$\left[\frac{1}{4}, \frac{1}{2}, \frac{1}{4}\right]$	[18,32,58,92,116,126,152,190]
19	$\left[\frac{1}{4}, \frac{1}{2}, \frac{3}{4}\right]$	[19,29,53,96,113,127,156,185]
20	$\left[\frac{3}{4}, \frac{1}{2}, \frac{3}{4}\right]$	[20,30,56,94,114,128,154,188]
21	$\left[\frac{1}{2}, \frac{1}{4}, \frac{1}{4}\right]$	[21,34,70,81,99,136,148,183]
22	$\left[\frac{1}{2}, \frac{3}{4}, \frac{3}{4}\right]$	[22,33,69,82,100,135,147,184]
23	$\left[\frac{1}{4}, \frac{3}{4}, \frac{1}{2}\right]$	[23,28,54,93,105,138,160,179]
24	$\left[\frac{3}{4}, \frac{3}{4}, \frac{1}{2}\right]$	[24,27,55,95,107,139,159,180]

Table 5: Wyckoff site: `48e`, site symmetry: `2m'm'..`

No.	position	mapping
1	$[x,\ 0,\ 0]$	`[1,2,39,40]`
2	$[-x,\ 0,\ 0]$	`[3,4,37,38]`
3	$[0,\ x,\ 0]$	`[5,12,44,46]`
4	$[0,\ 0,\ x]$	`[6,9,43,47]`
5	$[0,\ 0,\ -x]$	`[7,11,42,45]`
6	$[0,\ -x,\ 0]$	`[8,10,41,48]`
7	$\left[\frac{1}{2}-x,\ \frac{1}{2},\ \frac{1}{2}\right]$	`[13,14,33,34]`
8	$\left[\frac{1}{2},\ \frac{1}{2},\ x+\frac{1}{2}\right]$	`[15,24,28,35]`
9	$\left[\frac{1}{2},\ \frac{1}{2},\ \frac{1}{2}-x\right]$	`[16,23,27,36]`
10	$\left[\frac{1}{2},\ \frac{1}{2}-x,\ \frac{1}{2}\right]$	`[17,19,30,32]`
11	$\left[\frac{1}{2},\ x+\frac{1}{2},\ \frac{1}{2}\right]$	`[18,20,29,31]`
12	$\left[x+\frac{1}{2},\ \frac{1}{2},\ \frac{1}{2}\right]$	`[21,22,25,26]`
13	$\left[x,\ \frac{1}{2},\ \frac{1}{2}\right]$	`[49,50,87,88]`
14	$\left[-x,\ \frac{1}{2},\ \frac{1}{2}\right]$	`[51,52,85,86]`
15	$\left[0,\ x+\frac{1}{2},\ \frac{1}{2}\right]$	`[53,60,92,94]`
16	$\left[0,\ \frac{1}{2},\ x+\frac{1}{2}\right]$	`[54,57,91,95]`
17	$\left[0,\ \frac{1}{2},\ \frac{1}{2}-x\right]$	`[55,59,90,93]`
18	$\left[0,\ \frac{1}{2}-x,\ \frac{1}{2}\right]$	`[56,58,89,96]`
19	$\left[\frac{1}{2}-x,\ 0,\ 0\right]$	`[61,62,81,82]`
20	$\left[\frac{1}{2},\ 0,\ x\right]$	`[63,72,76,83]`
21	$\left[\frac{1}{2},\ 0,\ -x\right]$	`[64,71,75,84]`
22	$\left[\frac{1}{2},\ -x,\ 0\right]$	`[65,67,78,80]`
23	$\left[\frac{1}{2},\ x,\ 0\right]$	`[66,68,77,79]`
24	$\left[x+\frac{1}{2},\ 0,\ 0\right]$	`[69,70,73,74]`
25	$\left[x+\frac{1}{2},\ 0,\ \frac{1}{2}\right]$	`[97,98,135,136]`
26	$\left[\frac{1}{2}-x,\ 0,\ \frac{1}{2}\right]$	`[99,100,133,134]`
27	$\left[\frac{1}{2},\ x,\ \frac{1}{2}\right]$	`[101,108,140,142]`
28	$\left[\frac{1}{2},\ 0,\ x+\frac{1}{2}\right]$	`[102,105,139,143]`
29	$\left[\frac{1}{2},\ 0,\ \frac{1}{2}-x\right]$	`[103,107,138,141]`
30	$\left[\frac{1}{2},\ -x,\ \frac{1}{2}\right]$	`[104,106,137,144]`
31	$\left[-x,\ \frac{1}{2},\ 0\right]$	`[109,110,129,130]`
32	$\left[0,\ \frac{1}{2},\ x\right]$	`[111,120,124,131]`
33	$\left[0,\ \frac{1}{2},\ -x\right]$	`[112,119,123,132]`
34	$\left[0,\ \frac{1}{2}-x,\ 0\right]$	`[113,115,126,128]`
35	$\left[0,\ x+\frac{1}{2},\ 0\right]$	`[114,116,125,127]`
36	$\left[x,\ \frac{1}{2},\ 0\right]$	`[117,118,121,122]`
37	$\left[x+\frac{1}{2},\ \frac{1}{2},\ 0\right]$	`[145,146,183,184]`
38	$\left[\frac{1}{2}-x,\ \frac{1}{2},\ 0\right]$	`[147,148,181,182]`
39	$\left[\frac{1}{2},\ x+\frac{1}{2},\ 0\right]$	`[149,156,188,190]`
40	$\left[\frac{1}{2},\ \frac{1}{2},\ x\right]$	`[150,153,187,191]`
41	$\left[\frac{1}{2},\ \frac{1}{2},\ -x\right]$	`[151,155,186,189]`
42	$\left[\frac{1}{2},\ \frac{1}{2}-x,\ 0\right]$	`[152,154,185,192]`
43	$\left[-x,\ 0,\ \frac{1}{2}\right]$	`[157,158,177,178]`
44	$\left[0,\ 0,\ x+\frac{1}{2}\right]$	`[159,168,172,179]`
45	$\left[0,\ 0,\ \frac{1}{2}-x\right]$	`[160,167,171,180]`
46	$\left[0,\ -x,\ \frac{1}{2}\right]$	`[161,163,174,176]`

continued ...

Table 5

No.	position	mapping
47	$\left[0,\, x,\, \frac{1}{2}\right]$	[162,164,173,175]
48	$\left[x,\, 0,\, \frac{1}{2}\right]$	[165,166,169,170]

Table 6: Wyckoff site: 48f, site symmetry: 4’..

No.	position	mapping
1	$\left[x,\, \frac{1}{4},\, \frac{1}{4}\right]$	[1,50,121,170]
2	$\left[x,\, \frac{3}{4},\, \frac{3}{4}\right]$	[2,49,122,169]
3	$\left[-x,\, \frac{1}{4},\, \frac{3}{4}\right]$	[3,52,130,177]
4	$\left[-x,\, \frac{3}{4},\, \frac{1}{4}\right]$	[4,51,129,178]
5	$\left[\frac{1}{4},\, x,\, \frac{1}{4}\right]$	[5,77,108,175]
6	$\left[\frac{1}{4},\, \frac{1}{4},\, x\right]$	[6,76,131,153]
7	$\left[\frac{3}{4},\, \frac{1}{4},\, -x\right]$	[7,75,132,155]
8	$\left[\frac{3}{4},\, -x,\, \frac{1}{4}\right]$	[8,78,106,176]
9	$\left[\frac{3}{4},\, \frac{3}{4},\, x\right]$	[9,83,124,150]
10	$\left[\frac{1}{4},\, -x,\, \frac{3}{4}\right]$	[10,80,104,174]
11	$\left[\frac{1}{4},\, \frac{3}{4},\, -x\right]$	[11,84,123,151]
12	$\left[\frac{3}{4},\, x,\, \frac{3}{4}\right]$	[12,79,101,173]
13	$\left[\frac{1}{2}-x,\, \frac{3}{4},\, \frac{1}{4}\right]$	[13,62,133,182]
14	$\left[\frac{1}{2}-x,\, \frac{1}{4},\, \frac{3}{4}\right]$	[14,61,134,181]
15	$\left[\frac{1}{4},\, \frac{1}{4},\, x+\frac{1}{2}\right]$	[15,91,143,168]
16	$\left[\frac{3}{4},\, \frac{1}{4},\, \frac{1}{2}-x\right]$	[16,90,141,167]
17	$\left[\frac{3}{4},\, \frac{1}{2}-x,\, \frac{1}{4}\right]$	[17,89,115,192]
18	$\left[\frac{1}{4},\, x+\frac{1}{2},\, \frac{1}{4}\right]$	[18,92,116,190]
19	$\left[\frac{1}{4},\, \frac{1}{2}-x,\, \frac{3}{4}\right]$	[19,96,113,185]
20	$\left[\frac{3}{4},\, x+\frac{1}{2},\, \frac{3}{4}\right]$	[20,94,114,188]
21	$\left[x+\frac{1}{2},\, \frac{1}{4},\, \frac{1}{4}\right]$	[21,70,136,183]
22	$\left[x+\frac{1}{2},\, \frac{3}{4},\, \frac{3}{4}\right]$	[22,69,135,184]
23	$\left[\frac{1}{4},\, \frac{3}{4},\, \frac{1}{2}-x\right]$	[23,93,138,160]
24	$\left[\frac{3}{4},\, \frac{3}{4},\, x+\frac{1}{2}\right]$	[24,95,139,159]
25	$\left[x+\frac{1}{2},\, \frac{1}{4},\, \frac{3}{4}\right]$	[25,74,97,146]
26	$\left[x+\frac{1}{2},\, \frac{3}{4},\, \frac{1}{4}\right]$	[26,73,98,145]
27	$\left[\frac{3}{4},\, \frac{3}{4},\, \frac{1}{2}-x\right]$	[27,55,107,180]
28	$\left[\frac{1}{4},\, \frac{3}{4},\, x+\frac{1}{2}\right]$	[28,54,105,179]
29	$\left[\frac{1}{4},\, x+\frac{1}{2},\, \frac{3}{4}\right]$	[29,53,127,156]
30	$\left[\frac{3}{4},\, \frac{1}{2}-x,\, \frac{3}{4}\right]$	[30,56,128,154]
31	$\left[\frac{3}{4},\, x+\frac{1}{2},\, \frac{1}{4}\right]$	[31,60,125,149]
32	$\left[\frac{1}{4},\, \frac{1}{2}-x,\, \frac{1}{4}\right]$	[32,58,126,152]
33	$\left[\frac{1}{2}-x,\, \frac{3}{4},\, \frac{3}{4}\right]$	[33,82,100,147]
34	$\left[\frac{1}{2}-x,\, \frac{1}{4},\, \frac{1}{4}\right]$	[34,81,99,148]
35	$\left[\frac{3}{4},\, \frac{1}{4},\, x+\frac{1}{2}\right]$	[35,57,102,172]
36	$\left[\frac{1}{4},\, \frac{1}{4},\, \frac{1}{2}-x\right]$	[36,59,103,171]
37	$\left[-x,\, \frac{3}{4},\, \frac{3}{4}\right]$	[37,86,109,158]
38	$\left[-x,\, \frac{1}{4},\, \frac{1}{4}\right]$	[38,85,110,157]

continued ...

Table 6

No.	position	mapping
39	$\left[x,\ \frac{3}{4},\ \frac{1}{4}\right]$	[39,88,118,165]
40	$\left[x,\ \frac{1}{4},\ \frac{3}{4}\right]$	[40,87,117,166]
41	$\left[\frac{3}{4},\ -x,\ \frac{3}{4}\right]$	[41,65,144,163]
42	$\left[\frac{3}{4},\ \frac{3}{4},\ -x\right]$	[42,64,119,189]
43	$\left[\frac{1}{4},\ \frac{3}{4},\ x\right]$	[43,63,120,191]
44	$\left[\frac{1}{4},\ x,\ \frac{3}{4}\right]$	[44,66,142,164]
45	$\left[\frac{1}{4},\ \frac{1}{4},\ -x\right]$	[45,71,112,186]
46	$\left[\frac{3}{4},\ x,\ \frac{1}{4}\right]$	[46,68,140,162]
47	$\left[\frac{3}{4},\ \frac{1}{4},\ x\right]$	[47,72,111,187]
48	$\left[\frac{1}{4},\ -x,\ \frac{1}{4}\right]$	[48,67,137,161]

Table 7: Wyckoff site: 64g, 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	$\left[\frac{1}{2}-x,\ x+\frac{1}{2},\ \frac{1}{2}-x\right]$	[13,18,23]
6	$\left[\frac{1}{2}-x,\ \frac{1}{2}-x,\ x+\frac{1}{2}\right]$	[14,15,19]
7	$\left[x+\frac{1}{2},\ \frac{1}{2}-x,\ \frac{1}{2}-x\right]$	[16,17,21]
8	$\left[x+\frac{1}{2},\ x+\frac{1}{2},\ x+\frac{1}{2}\right]$	[20,22,24]
9	$\left[x+\frac{1}{2},\ \frac{1}{2}-x,\ x+\frac{1}{2}\right]$	[25,30,35]
10	$\left[x+\frac{1}{2},\ x+\frac{1}{2},\ \frac{1}{2}-x\right]$	[26,27,31]
11	$\left[\frac{1}{2}-x,\ x+\frac{1}{2},\ x+\frac{1}{2}\right]$	[28,29,33]
12	$\left[\frac{1}{2}-x,\ \frac{1}{2}-x,\ \frac{1}{2}-x\right]$	[32,34,36]
13	$[-x,\ -x,\ -x]$	[37,41,42]
14	$[-x,\ x,\ x]$	[38,46,47]
15	$[x,\ -x,\ x]$	[39,43,48]
16	$[x,\ x,\ -x]$	[40,44,45]
17	$\left[x,\ x+\frac{1}{2},\ x+\frac{1}{2}\right]$	[49,53,54]
18	$\left[x,\ \frac{1}{2}-x,\ \frac{1}{2}-x\right]$	[50,58,59]
19	$\left[-x,\ x+\frac{1}{2},\ \frac{1}{2}-x\right]$	[51,55,60]
20	$\left[-x,\ \frac{1}{2}-x,\ x+\frac{1}{2}\right]$	[52,56,57]
21	$\left[\frac{1}{2}-x,\ x,\ -x\right]$	[61,66,71]
22	$\left[\frac{1}{2}-x,\ -x,\ x\right]$	[62,63,67]
23	$\left[x+\frac{1}{2},\ -x,\ -x\right]$	[64,65,69]
24	$\left[x+\frac{1}{2},\ x,\ x\right]$	[68,70,72]
25	$\left[x+\frac{1}{2},\ -x,\ x\right]$	[73,78,83]
26	$\left[x+\frac{1}{2},\ x,\ -x\right]$	[74,75,79]
27	$\left[\frac{1}{2}-x,\ x,\ x\right]$	[76,77,81]
28	$\left[\frac{1}{2}-x,\ -x,\ -x\right]$	[80,82,84]
29	$\left[-x,\ \frac{1}{2}-x,\ \frac{1}{2}-x\right]$	[85,89,90]
30	$\left[-x,\ x+\frac{1}{2},\ x+\frac{1}{2}\right]$	[86,94,95]

continued ...

Table 7

No.	position	mapping
31	$\left[x,\ \frac{1}{2}-x,\ x+\frac{1}{2}\right]$	[87,91,96]
32	$\left[x,\ x+\frac{1}{2},\ \frac{1}{2}-x\right]$	[88,92,93]
33	$\left[x+\frac{1}{2},\ x,\ x+\frac{1}{2}\right]$	[97,101,102]
34	$\left[x+\frac{1}{2},\ -x,\ \frac{1}{2}-x\right]$	[98,106,107]
35	$\left[\frac{1}{2}-x,\ x,\ \frac{1}{2}-x\right]$	[99,103,108]
36	$\left[\frac{1}{2}-x,\ -x,\ x+\frac{1}{2}\right]$	[100,104,105]
37	$\left[-x,\ x+\frac{1}{2},\ -x\right]$	[109,114,119]
38	$\left[-x,\ \frac{1}{2}-x,\ x\right]$	[110,111,115]
39	$\left[x,\ \frac{1}{2}-x,\ -x\right]$	[112,113,117]
40	$\left[x,\ x+\frac{1}{2},\ x\right]$	[116,118,120]
41	$\left[x,\ \frac{1}{2}-x,\ x\right]$	[121,126,131]
42	$\left[x,\ x+\frac{1}{2},\ -x\right]$	[122,123,127]
43	$\left[-x,\ x+\frac{1}{2},\ x\right]$	[124,125,129]
44	$\left[-x,\ \frac{1}{2}-x,\ -x\right]$	[128,130,132]
45	$\left[\frac{1}{2}-x,\ -x,\ \frac{1}{2}-x\right]$	[133,137,138]
46	$\left[\frac{1}{2}-x,\ x,\ x+\frac{1}{2}\right]$	[134,142,143]
47	$\left[x+\frac{1}{2},\ -x,\ x+\frac{1}{2}\right]$	[135,139,144]
48	$\left[x+\frac{1}{2},\ x,\ \frac{1}{2}-x\right]$	[136,140,141]
49	$\left[x+\frac{1}{2},\ x+\frac{1}{2},\ x\right]$	[145,149,150]
50	$\left[x+\frac{1}{2},\ \frac{1}{2}-x,\ -x\right]$	[146,154,155]
51	$\left[\frac{1}{2}-x,\ x+\frac{1}{2},\ -x\right]$	[147,151,156]
52	$\left[\frac{1}{2}-x,\ \frac{1}{2}-x,\ x\right]$	[148,152,153]
53	$\left[-x,\ x,\ \frac{1}{2}-x\right]$	[157,162,167]
54	$\left[-x,\ -x,\ x+\frac{1}{2}\right]$	[158,159,163]
55	$\left[x,\ -x,\ \frac{1}{2}-x\right]$	[160,161,165]
56	$\left[x,\ x,\ x+\frac{1}{2}\right]$	[164,166,168]
57	$\left[x,\ -x,\ x+\frac{1}{2}\right]$	[169,174,179]
58	$\left[x,\ x,\ \frac{1}{2}-x\right]$	[170,171,175]
59	$\left[-x,\ x,\ x+\frac{1}{2}\right]$	[172,173,177]
60	$\left[-x,\ -x,\ \frac{1}{2}-x\right]$	[176,178,180]
61	$\left[\frac{1}{2}-x,\ \frac{1}{2}-x,\ -x\right]$	[181,185,186]
62	$\left[\frac{1}{2}-x,\ x+\frac{1}{2},\ x\right]$	[182,190,191]
63	$\left[x+\frac{1}{2},\ \frac{1}{2}-x,\ x\right]$	[183,187,192]
64	$\left[x+\frac{1}{2},\ x+\frac{1}{2},\ -x\right]$	[184,188,189]

Table 8: Wyckoff site: 96h, site symmetry: ..2'

No.	position	mapping
1	$\left[\frac{1}{4},\ y,\ y\right]$	[1,81]
2	$\left[\frac{1}{4},\ -y,\ -y\right]$	[2,82]
3	$\left[\frac{3}{4},\ y,\ -y\right]$	[3,74]
4	$\left[\frac{3}{4},\ -y,\ y\right]$	[4,73]
5	$\left[y,\ \frac{1}{4},\ y\right]$	[5,126]
6	$\left[y,\ y,\ \frac{1}{4}\right]$	[6,171]

continued ...

Table 8

No.	position	mapping
7	$\left[-y,\, y,\, \frac{3}{4}\right]$	[7,172]
8	$\left[-y,\, \frac{3}{4},\, y\right]$	[8,125]
9	$\left[-y,\, -y,\, \frac{1}{4}\right]$	[9,180]
10	$\left[y,\, \frac{3}{4},\, -y\right]$	[10,127]
11	$\left[y,\, -y,\, \frac{3}{4}\right]$	[11,179]
12	$\left[-y,\, \frac{1}{4},\, -y\right]$	[12,128]
13	$\left[\frac{1}{4},\, y+\frac{1}{2},\, \frac{1}{2}-y\right]$	[13,88]
14	$\left[\frac{1}{4},\, \frac{1}{2}-y,\, y+\frac{1}{2}\right]$	[14,87]
15	$\left[\frac{1}{2}-y,\, \frac{1}{2}-y,\, \frac{3}{4}\right]$	[15,186]
16	$\left[y+\frac{1}{2},\, \frac{1}{2}-y,\, \frac{1}{4}\right]$	[16,187]
17	$\left[y+\frac{1}{2},\, \frac{1}{4},\, \frac{1}{2}-y\right]$	[17,140]
18	$\left[\frac{1}{2}-y,\, \frac{3}{4},\, \frac{1}{2}-y\right]$	[18,137]
19	$\left[\frac{1}{2}-y,\, \frac{1}{4},\, y+\frac{1}{2}\right]$	[19,142]
20	$\left[y+\frac{1}{2},\, \frac{3}{4},\, y+\frac{1}{2}\right]$	[20,144]
21	$\left[\frac{3}{4},\, \frac{1}{2}-y,\, \frac{1}{2}-y\right]$	[21,85]
22	$\left[\frac{3}{4},\, y+\frac{1}{2},\, y+\frac{1}{2}\right]$	[22,86]
23	$\left[\frac{1}{2}-y,\, y+\frac{1}{2},\, \frac{1}{4}\right]$	[23,191]
24	$\left[y+\frac{1}{2},\, y+\frac{1}{2},\, \frac{3}{4}\right]$	[24,189]
25	$\left[\frac{3}{4},\, \frac{1}{2}-y,\, y+\frac{1}{2}\right]$	[25,52]
26	$\left[\frac{3}{4},\, y+\frac{1}{2},\, \frac{1}{2}-y\right]$	[26,51]
27	$\left[y+\frac{1}{2},\, y+\frac{1}{2},\, \frac{1}{4}\right]$	[27,150]
28	$\left[\frac{1}{2}-y,\, y+\frac{1}{2},\, \frac{3}{4}\right]$	[28,151]
29	$\left[\frac{1}{2}-y,\, \frac{3}{4},\, y+\frac{1}{2}\right]$	[29,104]
30	$\left[y+\frac{1}{2},\, \frac{1}{4},\, y+\frac{1}{2}\right]$	[30,101]
31	$\left[y+\frac{1}{2},\, \frac{3}{4},\, \frac{1}{2}-y\right]$	[31,106]
32	$\left[\frac{1}{2}-y,\, \frac{1}{4},\, \frac{1}{2}-y\right]$	[32,108]
33	$\left[\frac{1}{4},\, y+\frac{1}{2},\, y+\frac{1}{2}\right]$	[33,49]
34	$\left[\frac{1}{4},\, \frac{1}{2}-y,\, \frac{1}{2}-y\right]$	[34,50]
35	$\left[y+\frac{1}{2},\, \frac{1}{2}-y,\, \frac{3}{4}\right]$	[35,155]
36	$\left[\frac{1}{2}-y,\, \frac{1}{2}-y,\, \frac{1}{4}\right]$	[36,153]
37	$\left[\frac{3}{4},\, -y,\, -y\right]$	[37,69]
38	$\left[\frac{3}{4},\, y,\, y\right]$	[38,70]
39	$\left[\frac{1}{4},\, -y,\, y\right]$	[39,62]
40	$\left[\frac{1}{4},\, y,\, -y\right]$	[40,61]
41	$\left[-y,\, \frac{3}{4},\, -y\right]$	[41,114]
42	$\left[-y,\, -y,\, \frac{3}{4}\right]$	[42,159]
43	$\left[y,\, -y,\, \frac{1}{4}\right]$	[43,160]
44	$\left[y,\, \frac{1}{4},\, -y\right]$	[44,113]
45	$\left[y,\, y,\, \frac{3}{4}\right]$	[45,168]
46	$\left[-y,\, \frac{1}{4},\, y\right]$	[46,115]
47	$\left[-y,\, y,\, \frac{1}{4}\right]$	[47,167]
48	$\left[y,\, \frac{3}{4},\, y\right]$	[48,116]
49	$\left[y,\, \frac{3}{4},\, y+\frac{1}{2}\right]$	[53,174]
50	$\left[y,\, y+\frac{1}{2},\, \frac{3}{4}\right]$	[54,123]
51	$\left[-y,\, y+\frac{1}{2},\, \frac{1}{4}\right]$	[55,124]
52	$\left[-y,\, \frac{1}{4},\, y+\frac{1}{2}\right]$	[56,173]
53	$\left[-y,\, \frac{1}{2}-y,\, \frac{3}{4}\right]$	[57,132]

continued ...

Table 8

No.	position	mapping
54	$\left[y,\ \frac{1}{4},\ \frac{1}{2}-y\right]$	[58,175]
55	$\left[y,\ \frac{1}{2}-y,\ \frac{1}{4}\right]$	[59,131]
56	$\left[-y,\ \frac{3}{4},\ \frac{1}{2}-y\right]$	[60,176]
57	$\left[\frac{1}{2}-y,\ -y,\ \frac{1}{4}\right]$	[63,138]
58	$\left[y+\frac{1}{2},\ -y,\ \frac{3}{4}\right]$	[64,139]
59	$\left[y+\frac{1}{2},\ \frac{3}{4},\ -y\right]$	[65,188]
60	$\left[\frac{1}{2}-y,\ \frac{1}{4},\ -y\right]$	[66,185]
61	$\left[\frac{1}{2}-y,\ \frac{3}{4},\ y\right]$	[67,190]
62	$\left[y+\frac{1}{2},\ \frac{1}{4},\ y\right]$	[68,192]
63	$\left[\frac{1}{2}-y,\ y,\ \frac{3}{4}\right]$	[71,143]
64	$\left[y+\frac{1}{2},\ y,\ \frac{1}{4}\right]$	[72,141]
65	$\left[y+\frac{1}{2},\ y,\ \frac{3}{4}\right]$	[75,102]
66	$\left[\frac{1}{2}-y,\ y,\ \frac{1}{4}\right]$	[76,103]
67	$\left[\frac{1}{2}-y,\ \frac{1}{4},\ y\right]$	[77,152]
68	$\left[y+\frac{1}{2},\ \frac{3}{4},\ y\right]$	[78,149]
69	$\left[y+\frac{1}{2},\ \frac{1}{4},\ -y\right]$	[79,154]
70	$\left[\frac{1}{2}-y,\ \frac{3}{4},\ -y\right]$	[80,156]
71	$\left[y+\frac{1}{2},\ -y,\ \frac{1}{4}\right]$	[83,107]
72	$\left[\frac{1}{2}-y,\ -y,\ \frac{3}{4}\right]$	[84,105]
73	$\left[-y,\ \frac{1}{4},\ \frac{1}{2}-y\right]$	[89,162]
74	$\left[-y,\ \frac{1}{2}-y,\ \frac{1}{4}\right]$	[90,111]
75	$\left[y,\ \frac{1}{2}-y,\ \frac{3}{4}\right]$	[91,112]
76	$\left[y,\ \frac{3}{4},\ \frac{1}{2}-y\right]$	[92,161]
77	$\left[y,\ y+\frac{1}{2},\ \frac{1}{4}\right]$	[93,120]
78	$\left[-y,\ \frac{3}{4},\ y+\frac{1}{2}\right]$	[94,163]
79	$\left[-y,\ y+\frac{1}{2},\ \frac{3}{4}\right]$	[95,119]
80	$\left[y,\ \frac{1}{4},\ y+\frac{1}{2}\right]$	[96,164]
81	$\left[\frac{3}{4},\ y,\ y+\frac{1}{2}\right]$	[97,177]
82	$\left[\frac{3}{4},\ -y,\ \frac{1}{2}-y\right]$	[98,178]
83	$\left[\frac{1}{4},\ y,\ \frac{1}{2}-y\right]$	[99,170]
84	$\left[\frac{1}{4},\ -y,\ y+\frac{1}{2}\right]$	[100,169]
85	$\left[\frac{3}{4},\ y+\frac{1}{2},\ -y\right]$	[109,184]
86	$\left[\frac{3}{4},\ \frac{1}{2}-y,\ y\right]$	[110,183]
87	$\left[\frac{1}{4},\ \frac{1}{2}-y,\ -y\right]$	[117,181]
88	$\left[\frac{1}{4},\ y+\frac{1}{2},\ y\right]$	[118,182]
89	$\left[\frac{1}{4},\ \frac{1}{2}-y,\ y\right]$	[121,148]
90	$\left[\frac{1}{4},\ y+\frac{1}{2},\ -y\right]$	[122,147]
91	$\left[\frac{3}{4},\ y+\frac{1}{2},\ y\right]$	[129,145]
92	$\left[\frac{3}{4},\ \frac{1}{2}-y,\ -y\right]$	[130,146]
93	$\left[\frac{1}{4},\ -y,\ \frac{1}{2}-y\right]$	[133,165]
94	$\left[\frac{1}{4},\ y,\ y+\frac{1}{2}\right]$	[134,166]
95	$\left[\frac{3}{4},\ -y,\ y+\frac{1}{2}\right]$	[135,158]
96	$\left[\frac{3}{4},\ y,\ \frac{1}{2}-y\right]$	[136,157]

Table 9: Wyckoff site: `96i`, site symmetry: `m'..`

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

continued ...

Table 9

No.	position	mapping
47	$\left[\frac{1}{2}-z,\, y,\, 0\right]$	[71,76]
48	$\left[z+\frac{1}{2},\, y,\, 0\right]$	[72,75]
49	$\left[\frac{1}{2},\, y,\, z+\frac{1}{2}\right]$	[97,134]
50	$\left[\frac{1}{2},\, -y,\, \frac{1}{2}-z\right]$	[98,133]
51	$\left[\frac{1}{2},\, y,\, \frac{1}{2}-z\right]$	[99,136]
52	$\left[\frac{1}{2},\, -y,\, z+\frac{1}{2}\right]$	[100,135]
53	$\left[z+\frac{1}{2},\, 0,\, y+\frac{1}{2}\right]$	[101,144]
54	$\left[y+\frac{1}{2},\, z,\, \frac{1}{2}\right]$	[102,141]
55	$\left[\frac{1}{2}-y,\, z,\, \frac{1}{2}\right]$	[103,143]
56	$\left[\frac{1}{2}-z,\, 0,\, y+\frac{1}{2}\right]$	[104,142]
57	$\left[\frac{1}{2}-y,\, -z,\, \frac{1}{2}\right]$	[105,138]
58	$\left[z+\frac{1}{2},\, 0,\, \frac{1}{2}-y\right]$	[106,140]
59	$\left[y+\frac{1}{2},\, -z,\, \frac{1}{2}\right]$	[107,139]
60	$\left[\frac{1}{2}-z,\, 0,\, \frac{1}{2}-y\right]$	[108,137]
61	$\left[0,\, z+\frac{1}{2},\, -y\right]$	[109,122]
62	$\left[0,\, \frac{1}{2}-z,\, y\right]$	[110,121]
63	$\left[-z,\, \frac{1}{2}-y,\, 0\right]$	[111,132]
64	$\left[z,\, \frac{1}{2}-y,\, 0\right]$	[112,131]
65	$\left[y,\, \frac{1}{2},\, -z\right]$	[113,127]
66	$\left[-y,\, \frac{1}{2},\, -z\right]$	[114,128]
67	$\left[-y,\, \frac{1}{2},\, z\right]$	[115,125]
68	$\left[y,\, \frac{1}{2},\, z\right]$	[116,126]
69	$\left[0,\, \frac{1}{2}-z,\, -y\right]$	[117,130]
70	$\left[0,\, z+\frac{1}{2},\, y\right]$	[118,129]
71	$\left[-z,\, y+\frac{1}{2},\, 0\right]$	[119,124]
72	$\left[z,\, y+\frac{1}{2},\, 0\right]$	[120,123]
73	$\left[\frac{1}{2},\, y+\frac{1}{2},\, z\right]$	[145,182]
74	$\left[\frac{1}{2},\, \frac{1}{2}-y,\, -z\right]$	[146,181]
75	$\left[\frac{1}{2},\, y+\frac{1}{2},\, -z\right]$	[147,184]
76	$\left[\frac{1}{2},\, \frac{1}{2}-y,\, z\right]$	[148,183]
77	$\left[z+\frac{1}{2},\, \frac{1}{2},\, y\right]$	[149,192]
78	$\left[y+\frac{1}{2},\, z+\frac{1}{2},\, 0\right]$	[150,189]
79	$\left[\frac{1}{2}-y,\, z+\frac{1}{2},\, 0\right]$	[151,191]
80	$\left[\frac{1}{2}-z,\, \frac{1}{2},\, y\right]$	[152,190]
81	$\left[\frac{1}{2}-y,\, \frac{1}{2}-z,\, 0\right]$	[153,186]
82	$\left[z+\frac{1}{2},\, \frac{1}{2},\, -y\right]$	[154,188]
83	$\left[y+\frac{1}{2},\, \frac{1}{2}-z,\, 0\right]$	[155,187]
84	$\left[\frac{1}{2}-z,\, \frac{1}{2},\, -y\right]$	[156,185]
85	$\left[0,\, z,\, \frac{1}{2}-y\right]$	[157,170]
86	$\left[0,\, -z,\, y+\frac{1}{2}\right]$	[158,169]
87	$\left[-z,\, -y,\, \frac{1}{2}\right]$	[159,180]
88	$\left[z,\, -y,\, \frac{1}{2}\right]$	[160,179]
89	$\left[y,\, 0,\, \frac{1}{2}-z\right]$	[161,175]
90	$\left[-y,\, 0,\, \frac{1}{2}-z\right]$	[162,176]
91	$\left[-y,\, 0,\, z+\frac{1}{2}\right]$	[163,173]
92	$\left[y,\, 0,\, z+\frac{1}{2}\right]$	[164,174]
93	$\left[0,\, -z,\, \frac{1}{2}-y\right]$	[165,178]

continued ...

Table 9

No.	position	mapping
94	$\left[0,\, z,\, y+\frac{1}{2}\right]$	[166,177]
95	$\left[-z,\, y,\, \frac{1}{2}\right]$	[167,172]
96	$\left[z,\, y,\, \frac{1}{2}\right]$	[168,171]

Table 10: Wyckoff site: 192j, 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	$\left[\frac{1}{2}-x,\, z+\frac{1}{2},\, \frac{1}{2}-y\right]$	[13]
14	$\left[\frac{1}{2}-x,\, \frac{1}{2}-z,\, y+\frac{1}{2}\right]$	[14]
15	$\left[\frac{1}{2}-z,\, \frac{1}{2}-y,\, x+\frac{1}{2}\right]$	[15]
16	$\left[z+\frac{1}{2},\, \frac{1}{2}-y,\, \frac{1}{2}-x\right]$	[16]
17	$\left[y+\frac{1}{2},\, \frac{1}{2}-x,\, \frac{1}{2}-z\right]$	[17]
18	$\left[\frac{1}{2}-y,\, x+\frac{1}{2},\, \frac{1}{2}-z\right]$	[18]
19	$\left[\frac{1}{2}-y,\, \frac{1}{2}-x,\, z+\frac{1}{2}\right]$	[19]
20	$\left[y+\frac{1}{2},\, x+\frac{1}{2},\, z+\frac{1}{2}\right]$	[20]
21	$\left[x+\frac{1}{2},\, \frac{1}{2}-z,\, \frac{1}{2}-y\right]$	[21]
22	$\left[x+\frac{1}{2},\, z+\frac{1}{2},\, y+\frac{1}{2}\right]$	[22]
23	$\left[\frac{1}{2}-z,\, y+\frac{1}{2},\, \frac{1}{2}-x\right]$	[23]
24	$\left[z+\frac{1}{2},\, y+\frac{1}{2},\, x+\frac{1}{2}\right]$	[24]
25	$\left[x+\frac{1}{2},\, \frac{1}{2}-z,\, y+\frac{1}{2}\right]$	[25]
26	$\left[x+\frac{1}{2},\, z+\frac{1}{2},\, \frac{1}{2}-y\right]$	[26]
27	$\left[z+\frac{1}{2},\, y+\frac{1}{2},\, \frac{1}{2}-x\right]$	[27]
28	$\left[\frac{1}{2}-z,\, y+\frac{1}{2},\, x+\frac{1}{2}\right]$	[28]
29	$\left[\frac{1}{2}-y,\, x+\frac{1}{2},\, z+\frac{1}{2}\right]$	[29]
30	$\left[y+\frac{1}{2},\, \frac{1}{2}-x,\, z+\frac{1}{2}\right]$	[30]
31	$\left[y+\frac{1}{2},\, x+\frac{1}{2},\, \frac{1}{2}-z\right]$	[31]
32	$\left[\frac{1}{2}-y,\, \frac{1}{2}-x,\, \frac{1}{2}-z\right]$	[32]
33	$\left[\frac{1}{2}-x,\, z+\frac{1}{2},\, y+\frac{1}{2}\right]$	[33]
34	$\left[\frac{1}{2}-x,\, \frac{1}{2}-z,\, \frac{1}{2}-y\right]$	[34]
35	$\left[z+\frac{1}{2},\, \frac{1}{2}-y,\, x+\frac{1}{2}\right]$	[35]
36	$\left[\frac{1}{2}-z,\, \frac{1}{2}-y,\, \frac{1}{2}-x\right]$	[36]
37	$[-x,\, -y,\, -z]$	[37]

continued ...

Table 10

No.	position	mapping
38	$[-x,\, y,\, z]$	[38]
39	$[x,\, -y,\, z]$	[39]
40	$[x,\, y,\, -z]$	[40]
41	$[-z,\, -x,\, -y]$	[41]
42	$[-y,\, -z,\, -x]$	[42]
43	$[y,\, -z,\, x]$	[43]
44	$[z,\, x,\, -y]$	[44]
45	$[y,\, z,\, -x]$	[45]
46	$[-z,\, x,\, y]$	[46]
47	$[-y,\, z,\, x]$	[47]
48	$[z,\, -x,\, y]$	[48]
49	$\left[x,\, y+\frac{1}{2},\, z+\frac{1}{2}\right]$	[49]
50	$\left[x,\, \frac{1}{2}-y,\, \frac{1}{2}-z\right]$	[50]
51	$\left[-x,\, y+\frac{1}{2},\, \frac{1}{2}-z\right]$	[51]
52	$\left[-x,\, \frac{1}{2}-y,\, z+\frac{1}{2}\right]$	[52]
53	$\left[z,\, x+\frac{1}{2},\, y+\frac{1}{2}\right]$	[53]
54	$\left[y,\, z+\frac{1}{2},\, x+\frac{1}{2}\right]$	[54]
55	$\left[-y,\, z+\frac{1}{2},\, \frac{1}{2}-x\right]$	[55]
56	$\left[-z,\, \frac{1}{2}-x,\, y+\frac{1}{2}\right]$	[56]
57	$\left[-y,\, \frac{1}{2}-z,\, x+\frac{1}{2}\right]$	[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	$\left[-z,\, x+\frac{1}{2},\, \frac{1}{2}-y\right]$	[60]
61	$\left[\frac{1}{2}-x,\, z,\, -y\right]$	[61]
62	$\left[\frac{1}{2}-x,\, -z,\, y\right]$	[62]
63	$\left[\frac{1}{2}-z,\, -y,\, x\right]$	[63]
64	$\left[z+\frac{1}{2},\, -y,\, -x\right]$	[64]
65	$\left[y+\frac{1}{2},\, -x,\, -z\right]$	[65]
66	$\left[\frac{1}{2}-y,\, x,\, -z\right]$	[66]
67	$\left[\frac{1}{2}-y,\, -x,\, z\right]$	[67]
68	$\left[y+\frac{1}{2},\, x,\, z\right]$	[68]
69	$\left[x+\frac{1}{2},\, -z,\, -y\right]$	[69]
70	$\left[x+\frac{1}{2},\, z,\, y\right]$	[70]
71	$\left[\frac{1}{2}-z,\, y,\, -x\right]$	[71]
72	$\left[z+\frac{1}{2},\, y,\, x\right]$	[72]
73	$\left[x+\frac{1}{2},\, -z,\, y\right]$	[73]
74	$\left[x+\frac{1}{2},\, z,\, -y\right]$	[74]
75	$\left[z+\frac{1}{2},\, y,\, -x\right]$	[75]
76	$\left[\frac{1}{2}-z,\, y,\, x\right]$	[76]
77	$\left[\frac{1}{2}-y,\, x,\, z\right]$	[77]
78	$\left[y+\frac{1}{2},\, -x,\, z\right]$	[78]
79	$\left[y+\frac{1}{2},\, x,\, -z\right]$	[79]
80	$\left[\frac{1}{2}-y,\, -x,\, -z\right]$	[80]
81	$\left[\frac{1}{2}-x,\, z,\, y\right]$	[81]
82	$\left[\frac{1}{2}-x,\, -z,\, -y\right]$	[82]
83	$\left[z+\frac{1}{2},\, -y,\, x\right]$	[83]
84	$\left[\frac{1}{2}-z,\, -y,\, -x\right]$	[84]

continued ...

Table 10

No.	position	mapping
85	$\left[-x,\ \frac{1}{2}-y,\ \frac{1}{2}-z\right]$	[85]
86	$\left[-x,\ y+\frac{1}{2},\ z+\frac{1}{2}\right]$	[86]
87	$\left[x,\ \frac{1}{2}-y,\ z+\frac{1}{2}\right]$	[87]
88	$\left[x,\ y+\frac{1}{2},\ \frac{1}{2}-z\right]$	[88]
89	$\left[-z,\ \frac{1}{2}-x,\ \frac{1}{2}-y\right]$	[89]
90	$\left[-y,\ \frac{1}{2}-z,\ \frac{1}{2}-x\right]$	[90]
91	$\left[y,\ \frac{1}{2}-z,\ x+\frac{1}{2}\right]$	[91]
92	$\left[z,\ x+\frac{1}{2},\ \frac{1}{2}-y\right]$	[92]
93	$\left[y,\ z+\frac{1}{2},\ \frac{1}{2}-x\right]$	[93]
94	$\left[-z,\ x+\frac{1}{2},\ y+\frac{1}{2}\right]$	[94]
95	$\left[-y,\ z+\frac{1}{2},\ x+\frac{1}{2}\right]$	[95]
96	$\left[z,\ \frac{1}{2}-x,\ y+\frac{1}{2}\right]$	[96]
97	$\left[x+\frac{1}{2},\ y,\ z+\frac{1}{2}\right]$	[97]
98	$\left[x+\frac{1}{2},\ -y,\ \frac{1}{2}-z\right]$	[98]
99	$\left[\frac{1}{2}-x,\ y,\ \frac{1}{2}-z\right]$	[99]
100	$\left[\frac{1}{2}-x,\ -y,\ z+\frac{1}{2}\right]$	[100]
101	$\left[z+\frac{1}{2},\ x,\ y+\frac{1}{2}\right]$	[101]
102	$\left[y+\frac{1}{2},\ z,\ x+\frac{1}{2}\right]$	[102]
103	$\left[\frac{1}{2}-y,\ z,\ \frac{1}{2}-x\right]$	[103]
104	$\left[\frac{1}{2}-z,\ -x,\ y+\frac{1}{2}\right]$	[104]
105	$\left[\frac{1}{2}-y,\ -z,\ x+\frac{1}{2}\right]$	[105]
106	$\left[z+\frac{1}{2},\ -x,\ \frac{1}{2}-y\right]$	[106]
107	$\left[y+\frac{1}{2},\ -z,\ \frac{1}{2}-x\right]$	[107]
108	$\left[\frac{1}{2}-z,\ x,\ \frac{1}{2}-y\right]$	[108]
109	$\left[-x,\ z+\frac{1}{2},\ -y\right]$	[109]
110	$\left[-x,\ \frac{1}{2}-z,\ y\right]$	[110]
111	$\left[-z,\ \frac{1}{2}-y,\ x\right]$	[111]
112	$\left[z,\ \frac{1}{2}-y,\ -x\right]$	[112]
113	$\left[y,\ \frac{1}{2}-x,\ -z\right]$	[113]
114	$\left[-y,\ x+\frac{1}{2},\ -z\right]$	[114]
115	$\left[-y,\ \frac{1}{2}-x,\ z\right]$	[115]
116	$\left[y,\ x+\frac{1}{2},\ z\right]$	[116]
117	$\left[x,\ \frac{1}{2}-z,\ -y\right]$	[117]
118	$\left[x,\ z+\frac{1}{2},\ y\right]$	[118]
119	$\left[-z,\ y+\frac{1}{2},\ -x\right]$	[119]
120	$\left[z,\ y+\frac{1}{2},\ x\right]$	[120]
121	$\left[x,\ \frac{1}{2}-z,\ y\right]$	[121]
122	$\left[x,\ z+\frac{1}{2},\ -y\right]$	[122]
123	$\left[z,\ y+\frac{1}{2},\ -x\right]$	[123]
124	$\left[-z,\ y+\frac{1}{2},\ x\right]$	[124]
125	$\left[-y,\ x+\frac{1}{2},\ z\right]$	[125]
126	$\left[y,\ \frac{1}{2}-x,\ z\right]$	[126]
127	$\left[y,\ x+\frac{1}{2},\ -z\right]$	[127]
128	$\left[-y,\ \frac{1}{2}-x,\ -z\right]$	[128]
129	$\left[-x,\ z+\frac{1}{2},\ y\right]$	[129]
130	$\left[-x,\ \frac{1}{2}-z,\ -y\right]$	[130]
131	$\left[z,\ \frac{1}{2}-y,\ x\right]$	[131]

continued ...

Table 10

No.	position	mapping
132	$\left[-z,\ \frac{1}{2}-y,\ -x\right]$	[132]
133	$\left[\frac{1}{2}-x,\ -y,\ \frac{1}{2}-z\right]$	[133]
134	$\left[\frac{1}{2}-x,\ y,\ z+\frac{1}{2}\right]$	[134]
135	$\left[x+\frac{1}{2},\ -y,\ z+\frac{1}{2}\right]$	[135]
136	$\left[x+\frac{1}{2},\ y,\ \frac{1}{2}-z\right]$	[136]
137	$\left[\frac{1}{2}-z,\ -x,\ \frac{1}{2}-y\right]$	[137]
138	$\left[\frac{1}{2}-y,\ -z,\ \frac{1}{2}-x\right]$	[138]
139	$\left[y+\frac{1}{2},\ -z,\ x+\frac{1}{2}\right]$	[139]
140	$\left[z+\frac{1}{2},\ x,\ \frac{1}{2}-y\right]$	[140]
141	$\left[y+\frac{1}{2},\ z,\ \frac{1}{2}-x\right]$	[141]
142	$\left[\frac{1}{2}-z,\ x,\ y+\frac{1}{2}\right]$	[142]
143	$\left[\frac{1}{2}-y,\ z,\ x+\frac{1}{2}\right]$	[143]
144	$\left[z+\frac{1}{2},\ -x,\ y+\frac{1}{2}\right]$	[144]
145	$\left[x+\frac{1}{2},\ y+\frac{1}{2},\ z\right]$	[145]
146	$\left[x+\frac{1}{2},\ \frac{1}{2}-y,\ -z\right]$	[146]
147	$\left[\frac{1}{2}-x,\ y+\frac{1}{2},\ -z\right]$	[147]
148	$\left[\frac{1}{2}-x,\ \frac{1}{2}-y,\ z\right]$	[148]
149	$\left[z+\frac{1}{2},\ x+\frac{1}{2},\ y\right]$	[149]
150	$\left[y+\frac{1}{2},\ z+\frac{1}{2},\ x\right]$	[150]
151	$\left[\frac{1}{2}-y,\ z+\frac{1}{2},\ -x\right]$	[151]
152	$\left[\frac{1}{2}-z,\ \frac{1}{2}-x,\ y\right]$	[152]
153	$\left[\frac{1}{2}-y,\ \frac{1}{2}-z,\ x\right]$	[153]
154	$\left[z+\frac{1}{2},\ \frac{1}{2}-x,\ -y\right]$	[154]
155	$\left[y+\frac{1}{2},\ \frac{1}{2}-z,\ -x\right]$	[155]
156	$\left[\frac{1}{2}-z,\ x+\frac{1}{2},\ -y\right]$	[156]
157	$\left[-x,\ z,\ \frac{1}{2}-y\right]$	[157]
158	$\left[-x,\ -z,\ y+\frac{1}{2}\right]$	[158]
159	$\left[-z,\ -y,\ x+\frac{1}{2}\right]$	[159]
160	$\left[z,\ -y,\ \frac{1}{2}-x\right]$	[160]
161	$\left[y,\ -x,\ \frac{1}{2}-z\right]$	[161]
162	$\left[-y,\ x,\ \frac{1}{2}-z\right]$	[162]
163	$\left[-y,\ -x,\ z+\frac{1}{2}\right]$	[163]
164	$\left[y,\ x,\ z+\frac{1}{2}\right]$	[164]
165	$\left[x,\ -z,\ \frac{1}{2}-y\right]$	[165]
166	$\left[x,\ z,\ y+\frac{1}{2}\right]$	[166]
167	$\left[-z,\ y,\ \frac{1}{2}-x\right]$	[167]
168	$\left[z,\ y,\ x+\frac{1}{2}\right]$	[168]
169	$\left[x,\ -z,\ y+\frac{1}{2}\right]$	[169]
170	$\left[x,\ z,\ \frac{1}{2}-y\right]$	[170]
171	$\left[z,\ y,\ \frac{1}{2}-x\right]$	[171]
172	$\left[-z,\ y,\ x+\frac{1}{2}\right]$	[172]
173	$\left[-y,\ x,\ z+\frac{1}{2}\right]$	[173]
174	$\left[y,\ -x,\ z+\frac{1}{2}\right]$	[174]
175	$\left[y,\ x,\ \frac{1}{2}-z\right]$	[175]
176	$\left[-y,\ -x,\ \frac{1}{2}-z\right]$	[176]
177	$\left[-x,\ z,\ y+\frac{1}{2}\right]$	[177]
178	$\left[-x,\ -z,\ \frac{1}{2}-y\right]$	[178]

continued ...

Table 10

No.	position	mapping
179	$\left[z,\, -y,\, x+\frac{1}{2}\right]$	[179]
180	$\left[-z,\, -y,\, \frac{1}{2}-x\right]$	[180]
181	$\left[\frac{1}{2}-x,\, \frac{1}{2}-y,\, -z\right]$	[181]
182	$\left[\frac{1}{2}-x,\, y+\frac{1}{2},\, z\right]$	[182]
183	$\left[x+\frac{1}{2},\, \frac{1}{2}-y,\, z\right]$	[183]
184	$\left[x+\frac{1}{2},\, y+\frac{1}{2},\, -z\right]$	[184]
185	$\left[\frac{1}{2}-z,\, \frac{1}{2}-x,\, -y\right]$	[185]
186	$\left[\frac{1}{2}-y,\, \frac{1}{2}-z,\, -x\right]$	[186]
187	$\left[y+\frac{1}{2},\, \frac{1}{2}-z,\, x\right]$	[187]
188	$\left[z+\frac{1}{2},\, x+\frac{1}{2},\, -y\right]$	[188]
189	$\left[y+\frac{1}{2},\, z+\frac{1}{2},\, -x\right]$	[189]
190	$\left[\frac{1}{2}-z,\, x+\frac{1}{2},\, y\right]$	[190]
191	$\left[\frac{1}{2}-y,\, z+\frac{1}{2},\, x\right]$	[191]
192	$\left[z+\frac{1}{2},\, \frac{1}{2}-x,\, y\right]$	[192]