MSG No. 216.75 $F\bar{4}3m1'$ [Type II, cubic]

Table 1: Wyckoff site: `4a`, site symmetry: `-43m1'`

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,
		97,98,99,100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119,120]
2	$[0, \frac{1}{2}, \frac{1}{2}]$	[25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,
		121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136,137,138,139,140,141,142,143,144]
3	$[\frac{1}{2}, 0, \frac{1}{2}]$	[49,50,51,52,53,54,55,56,57,58,59,60,61,62,63,64,65,66,67,68,69,70,71,72,
		145,146,147,148,149,150,151,152,153,154,155,156,157,158,159,160,161,162,163,164,165,166,167,168]
4	$[\frac{1}{2}, \frac{1}{2}, 0]$	[73,74,75,76,77,78,79,80,81,82,83,84,85,86,87,88,89,90,91,92,93,94,95,96,
		169,170,171,172,173,174,175,176,177,178,179,180,181,182,183,184,185,186,187,188,189,190,191,192]

Table 2: Wyckoff site: `4b`, site symmetry: `-43m1'`

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

Table 3: Wyckoff site: `4c`, site symmetry: `-43m1'`

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

Table 4: Wyckoff site: `4d`, site symmetry: `-43m1'`

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

Table 5: Wyckoff site: `16e`, site symmetry: `.3m1'`

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

Table 6: Wyckoff site: `24f`, site symmetry: `2.mm1'`

No.	position	mapping
1	$[x, 0, 0]$	[1,2,21,22,97,98,117,118]
2	$[-x, 0, 0]$	[3,4,13,14,99,100,109,110]
3	$[0, x, 0]$	[5,12,18,20,101,108,114,116]
4	$[0, 0, x]$	[6,9,15,24,102,105,111,120]
5	$[0, 0, -x]$	[7,11,16,23,103,107,112,119]
6	$[0, -x, 0]$	[8,10,17,19,104,106,113,115]
7	$\left[x, \frac{1}{2}, \frac{1}{2}\right]$	[25,26,45,46,121,122,141,142]
8	$\left[-x, \frac{1}{2}, \frac{1}{2}\right]$	[27,28,37,38,123,124,133,134]
9	$\left[0, x+\frac{1}{2}, \frac{1}{2}\right]$	[29,36,42,44,125,132,138,140]

continued ...

Table 6

No.	position	mapping
10	$\left[0,\ \frac{1}{2},\ x+\frac{1}{2}\right]$	[30,33,39,48,126,129,135,144]
11	$\left[0,\ \frac{1}{2},\ \frac{1}{2}-x\right]$	[31,35,40,47,127,131,136,143]
12	$\left[0,\ \frac{1}{2}-x,\ \frac{1}{2}\right]$	[32,34,41,43,128,130,137,139]
13	$\left[x+\frac{1}{2},\ 0,\ \frac{1}{2}\right]$	[49,50,69,70,145,146,165,166]
14	$\left[\frac{1}{2}-x,\ 0,\ \frac{1}{2}\right]$	[51,52,61,62,147,148,157,158]
15	$\left[\frac{1}{2},\ x,\ \frac{1}{2}\right]$	[53,60,66,68,149,156,162,164]
16	$\left[\frac{1}{2},\ 0,\ x+\frac{1}{2}\right]$	[54,57,63,72,150,153,159,168]
17	$\left[\frac{1}{2},\ 0,\ \frac{1}{2}-x\right]$	[55,59,64,71,151,155,160,167]
18	$\left[\frac{1}{2},\ -x,\ \frac{1}{2}\right]$	[56,58,65,67,152,154,161,163]
19	$\left[x+\frac{1}{2},\ \frac{1}{2},\ 0\right]$	[73,74,93,94,169,170,189,190]
20	$\left[\frac{1}{2}-x,\ \frac{1}{2},\ 0\right]$	[75,76,85,86,171,172,181,182]
21	$\left[\frac{1}{2},\ x+\frac{1}{2},\ 0\right]$	[77,84,90,92,173,180,186,188]
22	$\left[\frac{1}{2},\ \frac{1}{2},\ x\right]$	[78,81,87,96,174,177,183,192]
23	$\left[\frac{1}{2},\ \frac{1}{2},\ -x\right]$	[79,83,88,95,175,179,184,191]
24	$\left[\frac{1}{2},\ \frac{1}{2}-x,\ 0\right]$	[80,82,89,91,176,178,185,187]

Table 7: Wyckoff site: 24g, site symmetry: 2.mm1'

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

Table 8: Wyckoff site: `48h`, site symmetry: `..m1'`

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

continued ...

Table 8

No.	position	mapping
47	$\left[x+\frac{1}{2},\ \frac{1}{2}-z,\ -x\right]$	[83,93,179,189]
48	$\left[\frac{1}{2}-z,\ x+\frac{1}{2},\ -x\right]$	[84,95,180,191]

Table 9: Wyckoff site: 96i, site symmetry: 11'

No.	position	mapping
1	$[x,\ y,\ z]$	[1,97]
2	$[x,\ -y,\ -z]$	[2,98]
3	$[-x,\ y,\ -z]$	[3,99]
4	$[-x,\ -y,\ z]$	[4,100]
5	$[z,\ x,\ y]$	[5,101]
6	$[y,\ z,\ x]$	[6,102]
7	$[-y,\ z,\ -x]$	[7,103]
8	$[-z,\ -x,\ y]$	[8,104]
9	$[-y,\ -z,\ x]$	[9,105]
10	$[z,\ -x,\ -y]$	[10,106]
11	$[y,\ -z,\ -x]$	[11,107]
12	$[-z,\ x,\ -y]$	[12,108]
13	$[-x,\ z,\ -y]$	[13,109]
14	$[-x,\ -z,\ y]$	[14,110]
15	$[-z,\ -y,\ x]$	[15,111]
16	$[z,\ -y,\ -x]$	[16,112]
17	$[y,\ -x,\ -z]$	[17,113]
18	$[-y,\ x,\ -z]$	[18,114]
19	$[-y,\ -x,\ z]$	[19,115]
20	$[y,\ x,\ z]$	[20,116]
21	$[x,\ -z,\ -y]$	[21,117]
22	$[x,\ z,\ y]$	[22,118]
23	$[-z,\ y,\ -x]$	[23,119]
24	$[z,\ y,\ x]$	[24,120]
25	$\left[x,\ y+\frac{1}{2},\ z+\frac{1}{2}\right]$	[25,121]
26	$\left[x,\ \frac{1}{2}-y,\ \frac{1}{2}-z\right]$	[26,122]
27	$\left[-x,\ y+\frac{1}{2},\ \frac{1}{2}-z\right]$	[27,123]
28	$\left[-x,\ \frac{1}{2}-y,\ z+\frac{1}{2}\right]$	[28,124]
29	$\left[z,\ x+\frac{1}{2},\ y+\frac{1}{2}\right]$	[29,125]
30	$\left[y,\ z+\frac{1}{2},\ x+\frac{1}{2}\right]$	[30,126]
31	$\left[-y,\ z+\frac{1}{2},\ \frac{1}{2}-x\right]$	[31,127]
32	$\left[-z,\ \frac{1}{2}-x,\ y+\frac{1}{2}\right]$	[32,128]
33	$\left[-y,\ \frac{1}{2}-z,\ x+\frac{1}{2}\right]$	[33,129]
34	$\left[z,\ \frac{1}{2}-x,\ \frac{1}{2}-y\right]$	[34,130]
35	$\left[y,\ \frac{1}{2}-z,\ \frac{1}{2}-x\right]$	[35,131]
36	$\left[-z,\ x+\frac{1}{2},\ \frac{1}{2}-y\right]$	[36,132]
37	$\left[-x,\ z+\frac{1}{2},\ \frac{1}{2}-y\right]$	[37,133]
38	$\left[-x,\ \frac{1}{2}-z,\ y+\frac{1}{2}\right]$	[38,134]

continued ...

Table 9

No.	position	mapping
39	$\left[-z,\ \frac{1}{2}-y,\ x+\frac{1}{2}\right]$	[39,135]
40	$\left[z,\ \frac{1}{2}-y,\ \frac{1}{2}-x\right]$	[40,136]
41	$\left[y,\ \frac{1}{2}-x,\ \frac{1}{2}-z\right]$	[41,137]
42	$\left[-y,\ x+\frac{1}{2},\ \frac{1}{2}-z\right]$	[42,138]
43	$\left[-y,\ \frac{1}{2}-x,\ z+\frac{1}{2}\right]$	[43,139]
44	$\left[y,\ x+\frac{1}{2},\ z+\frac{1}{2}\right]$	[44,140]
45	$\left[x,\ \frac{1}{2}-z,\ \frac{1}{2}-y\right]$	[45,141]
46	$\left[x,\ z+\frac{1}{2},\ y+\frac{1}{2}\right]$	[46,142]
47	$\left[-z,\ y+\frac{1}{2},\ \frac{1}{2}-x\right]$	[47,143]
48	$\left[z,\ y+\frac{1}{2},\ x+\frac{1}{2}\right]$	[48,144]
49	$\left[x+\frac{1}{2},\ y,\ z+\frac{1}{2}\right]$	[49,145]
50	$\left[x+\frac{1}{2},\ -y,\ \frac{1}{2}-z\right]$	[50,146]
51	$\left[\frac{1}{2}-x,\ y,\ \frac{1}{2}-z\right]$	[51,147]
52	$\left[\frac{1}{2}-x,\ -y,\ z+\frac{1}{2}\right]$	[52,148]
53	$\left[z+\frac{1}{2},\ x,\ y+\frac{1}{2}\right]$	[53,149]
54	$\left[y+\frac{1}{2},\ z,\ x+\frac{1}{2}\right]$	[54,150]
55	$\left[\frac{1}{2}-y,\ z,\ \frac{1}{2}-x\right]$	[55,151]
56	$\left[\frac{1}{2}-z,\ -x,\ y+\frac{1}{2}\right]$	[56,152]
57	$\left[\frac{1}{2}-y,\ -z,\ x+\frac{1}{2}\right]$	[57,153]
58	$\left[z+\frac{1}{2},\ -x,\ \frac{1}{2}-y\right]$	[58,154]
59	$\left[y+\frac{1}{2},\ -z,\ \frac{1}{2}-x\right]$	[59,155]
60	$\left[\frac{1}{2}-z,\ x,\ \frac{1}{2}-y\right]$	[60,156]
61	$\left[\frac{1}{2}-x,\ z,\ \frac{1}{2}-y\right]$	[61,157]
62	$\left[\frac{1}{2}-x,\ -z,\ y+\frac{1}{2}\right]$	[62,158]
63	$\left[\frac{1}{2}-z,\ -y,\ x+\frac{1}{2}\right]$	[63,159]
64	$\left[z+\frac{1}{2},\ -y,\ \frac{1}{2}-x\right]$	[64,160]
65	$\left[y+\frac{1}{2},\ -x,\ \frac{1}{2}-z\right]$	[65,161]
66	$\left[\frac{1}{2}-y,\ x,\ \frac{1}{2}-z\right]$	[66,162]
67	$\left[\frac{1}{2}-y,\ -x,\ z+\frac{1}{2}\right]$	[67,163]
68	$\left[y+\frac{1}{2},\ x,\ z+\frac{1}{2}\right]$	[68,164]
69	$\left[x+\frac{1}{2},\ -z,\ \frac{1}{2}-y\right]$	[69,165]
70	$\left[x+\frac{1}{2},\ z,\ y+\frac{1}{2}\right]$	[70,166]
71	$\left[\frac{1}{2}-z,\ y,\ \frac{1}{2}-x\right]$	[71,167]
72	$\left[z+\frac{1}{2},\ y,\ x+\frac{1}{2}\right]$	[72,168]
73	$\left[x+\frac{1}{2},\ y+\frac{1}{2},\ z\right]$	[73,169]
74	$\left[x+\frac{1}{2},\ \frac{1}{2}-y,\ -z\right]$	[74,170]
75	$\left[\frac{1}{2}-x,\ y+\frac{1}{2},\ -z\right]$	[75,171]
76	$\left[\frac{1}{2}-x,\ \frac{1}{2}-y,\ z\right]$	[76,172]
77	$\left[z+\frac{1}{2},\ x+\frac{1}{2},\ y\right]$	[77,173]
78	$\left[y+\frac{1}{2},\ z+\frac{1}{2},\ x\right]$	[78,174]
79	$\left[\frac{1}{2}-y,\ z+\frac{1}{2},\ -x\right]$	[79,175]
80	$\left[\frac{1}{2}-z,\ \frac{1}{2}-x,\ y\right]$	[80,176]
81	$\left[\frac{1}{2}-y,\ \frac{1}{2}-z,\ x\right]$	[81,177]
82	$\left[z+\frac{1}{2},\ \frac{1}{2}-x,\ -y\right]$	[82,178]
83	$\left[y+\frac{1}{2},\ \frac{1}{2}-z,\ -x\right]$	[83,179]
84	$\left[\frac{1}{2}-z,\ x+\frac{1}{2},\ -y\right]$	[84,180]
85	$\left[\frac{1}{2}-x,\ z+\frac{1}{2},\ -y\right]$	[85,181]

continued ...

Table 9

No.	position	mapping
86	$\left[\frac{1}{2}-x,\ \frac{1}{2}-z,\ y\right]$	[86,182]
87	$\left[\frac{1}{2}-z,\ \frac{1}{2}-y,\ x\right]$	[87,183]
88	$\left[z+\frac{1}{2},\ \frac{1}{2}-y,\ -x\right]$	[88,184]
89	$\left[y+\frac{1}{2},\ \frac{1}{2}-x,\ -z\right]$	[89,185]
90	$\left[\frac{1}{2}-y,\ x+\frac{1}{2},\ -z\right]$	[90,186]
91	$\left[\frac{1}{2}-y,\ \frac{1}{2}-x,\ z\right]$	[91,187]
92	$\left[y+\frac{1}{2},\ x+\frac{1}{2},\ z\right]$	[92,188]
93	$\left[x+\frac{1}{2},\ \frac{1}{2}-z,\ -y\right]$	[93,189]
94	$\left[x+\frac{1}{2},\ z+\frac{1}{2},\ y\right]$	[94,190]
95	$\left[\frac{1}{2}-z,\ y+\frac{1}{2},\ -x\right]$	[95,191]
96	$\left[z+\frac{1}{2},\ y+\frac{1}{2},\ x\right]$	[96,192]