

MSG No. 226.125 $Fm\bar{3}c'$ [Type III, cubic]

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

No.	position	mapping
1	$[\frac{1}{4}, \frac{1}{4}, \frac{1}{4}]$	[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	$[\frac{1}{4}, \frac{3}{4}, \frac{3}{4}]$	[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	$[\frac{3}{4}, \frac{1}{4}, \frac{3}{4}]$	[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	$[\frac{3}{4}, \frac{3}{4}, \frac{1}{4}]$	[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	$[\frac{3}{4}, \frac{3}{4}, \frac{3}{4}]$	[13,17,18,44,46,48,62,70,71,88,89,93,111,115,120,133,138,143,160,164,165,182,183,187]
6	$[\frac{3}{4}, \frac{1}{4}, \frac{1}{4}]$	[14,22,23,40,41,45,61,65,66,92,94,96,112,116,117,134,135,139,159,163,168,181,186,191]
7	$[\frac{1}{4}, \frac{3}{4}, \frac{1}{4}]$	[15,19,24,37,42,47,64,68,69,86,87,91,109,113,114,140,142,144,158,166,167,184,185,189]
8	$[\frac{1}{4}, \frac{1}{4}, \frac{3}{4}]$	[16,20,21,38,39,43,63,67,72,85,90,95,110,118,119,136,137,141,157,161,162,188,190,192]

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

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

No.	position	mapping
1	$[\frac{1}{4}, 0, 0]$	[1,2,15,16,81,82,85,86]
2	$[\frac{3}{4}, 0, 0]$	[3,4,13,14,73,74,93,94]
3	$[0, \frac{1}{4}, 0]$	[5,12,20,22,126,128,137,139]
4	$[0, 0, \frac{1}{4}]$	[6,9,19,23,171,180,184,191]
5	$[0, 0, \frac{3}{4}]$	[7,11,18,21,172,179,183,192]
6	$[0, \frac{3}{4}, 0]$	[8,10,17,24,125,127,138,140]
7	$[\frac{3}{4}, \frac{1}{2}, \frac{1}{2}]$	[25,26,45,46,51,52,61,62]
8	$[\frac{1}{2}, \frac{1}{2}, \frac{1}{4}]$	[27,36,40,47,150,153,163,167]
9	$[\frac{1}{2}, \frac{1}{2}, \frac{3}{4}]$	[28,35,39,48,151,155,162,165]
10	$[\frac{1}{2}, \frac{3}{4}, \frac{1}{2}]$	[29,31,42,44,104,106,113,120]
11	$[\frac{1}{2}, \frac{1}{4}, \frac{1}{2}]$	[30,32,41,43,101,108,116,118]
12	$[\frac{1}{4}, \frac{1}{2}, \frac{1}{2}]$	[33,34,37,38,49,50,63,64]
13	$[0, \frac{3}{4}, \frac{1}{2}]$	[53,60,68,70,174,176,185,187]
14	$[0, \frac{1}{2}, \frac{3}{4}]$	[54,57,67,71,123,132,136,143]
15	$[0, \frac{1}{2}, \frac{1}{4}]$	[55,59,66,69,124,131,135,144]

continued ...

Table 3

No.	position	mapping
16	$[0, \frac{1}{4}, \frac{1}{2}]$	[56, 58, 65, 72, 173, 175, 186, 188]
17	$[\frac{1}{2}, 0, \frac{3}{4}]$	[75, 84, 88, 95, 102, 105, 115, 119]
18	$[\frac{1}{2}, 0, \frac{1}{4}]$	[76, 83, 87, 96, 103, 107, 114, 117]
19	$[\frac{1}{2}, \frac{1}{4}, 0]$	[77, 79, 90, 92, 152, 154, 161, 168]
20	$[\frac{1}{2}, \frac{3}{4}, 0]$	[78, 80, 89, 91, 149, 156, 164, 166]
21	$[\frac{3}{4}, 0, \frac{1}{2}]$	[97, 98, 111, 112, 177, 178, 181, 182]
22	$[\frac{1}{4}, 0, \frac{1}{2}]$	[99, 100, 109, 110, 169, 170, 189, 190]
23	$[\frac{1}{4}, \frac{1}{2}, 0]$	[121, 122, 141, 142, 147, 148, 157, 158]
24	$[\frac{3}{4}, \frac{1}{2}, 0]$	[129, 130, 133, 134, 145, 146, 159, 160]

Table 4: Wyckoff site: 24d, site symmetry: $4'/\text{m..}$

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

Table 5: Wyckoff site: 48e, site symmetry: 2mm..

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	[$x + \frac{1}{2}, \frac{1}{2}, \frac{1}{2}$]	[25,26,45,46]
8	[$\frac{1}{2}, \frac{1}{2}, \frac{1}{2} - x$]	[27,36,40,47]
9	[$\frac{1}{2}, \frac{1}{2}, x + \frac{1}{2}$]	[28,35,39,48]
10	[$\frac{1}{2}, x + \frac{1}{2}, \frac{1}{2}$]	[29,31,42,44]
11	[$\frac{1}{2}, \frac{1}{2} - x, \frac{1}{2}$]	[30,32,41,43]
12	[$\frac{1}{2} - x, \frac{1}{2}, \frac{1}{2}$]	[33,34,37,38]
13	[$x, \frac{1}{2}, \frac{1}{2}$]	[49,50,63,64]
14	[$-x, \frac{1}{2}, \frac{1}{2}$]	[51,52,61,62]
15	[$0, x + \frac{1}{2}, \frac{1}{2}$]	[53,60,68,70]
16	[$0, \frac{1}{2}, x + \frac{1}{2}$]	[54,57,67,71]
17	[$0, \frac{1}{2}, \frac{1}{2} - x$]	[55,59,66,69]
18	[$0, \frac{1}{2} - x, \frac{1}{2}$]	[56,58,65,72]
19	[$x + \frac{1}{2}, 0, 0$]	[73,74,93,94]
20	[$\frac{1}{2}, 0, -x$]	[75,84,88,95]
21	[$\frac{1}{2}, 0, x$]	[76,83,87,96]
22	[$\frac{1}{2}, x, 0$]	[77,79,90,92]
23	[$\frac{1}{2}, -x, 0$]	[78,80,89,91]
24	[$\frac{1}{2} - x, 0, 0$]	[81,82,85,86]
25	[$x + \frac{1}{2}, 0, \frac{1}{2}$]	[97,98,111,112]
26	[$\frac{1}{2} - x, 0, \frac{1}{2}$]	[99,100,109,110]
27	[$\frac{1}{2}, x, \frac{1}{2}$]	[101,108,116,118]
28	[$\frac{1}{2}, 0, x + \frac{1}{2}$]	[102,105,115,119]
29	[$\frac{1}{2}, 0, \frac{1}{2} - x$]	[103,107,114,117]
30	[$\frac{1}{2}, -x, \frac{1}{2}$]	[104,106,113,120]
31	[$x, \frac{1}{2}, 0$]	[121,122,141,142]
32	[$0, \frac{1}{2}, -x$]	[123,132,136,143]
33	[$0, \frac{1}{2}, x$]	[124,131,135,144]
34	[$0, x + \frac{1}{2}, 0$]	[125,127,138,140]
35	[$0, \frac{1}{2} - x, 0$]	[126,128,137,139]
36	[$-x, \frac{1}{2}, 0$]	[129,130,133,134]
37	[$x + \frac{1}{2}, \frac{1}{2}, 0$]	[145,146,159,160]
38	[$\frac{1}{2} - x, \frac{1}{2}, 0$]	[147,148,157,158]
39	[$\frac{1}{2}, x + \frac{1}{2}, 0$]	[149,156,164,166]
40	[$\frac{1}{2}, \frac{1}{2}, x$]	[150,153,163,167]
41	[$\frac{1}{2}, \frac{1}{2}, -x$]	[151,155,162,165]
42	[$\frac{1}{2}, \frac{1}{2} - x, 0$]	[152,154,161,168]
43	[$x, 0, \frac{1}{2}$]	[169,170,189,190]
44	[$0, 0, \frac{1}{2} - x$]	[171,180,184,191]
45	[$0, 0, x + \frac{1}{2}$]	[172,179,183,192]
46	[$0, x, \frac{1}{2}$]	[173,175,186,188]

continued ...

Table 5

No.	position	mapping
47	$[0, -x, \frac{1}{2}]$	[174, 176, 185, 187]
48	$[-x, 0, \frac{1}{2}]$	[177, 178, 181, 182]

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

No.	position	mapping
1	$[x, \frac{1}{4}, \frac{1}{4}]$	[1, 50, 121, 170]
2	$[x, \frac{3}{4}, \frac{3}{4}]$	[2, 49, 122, 169]
3	$[-x, \frac{1}{4}, \frac{3}{4}]$	[3, 52, 130, 177]
4	$[-x, \frac{3}{4}, \frac{1}{4}]$	[4, 51, 129, 178]
5	$[\frac{1}{4}, x, \frac{1}{4}]$	[5, 77, 108, 175]
6	$[\frac{1}{4}, \frac{1}{4}, x]$	[6, 76, 131, 153]
7	$[\frac{3}{4}, \frac{1}{4}, -x]$	[7, 75, 132, 155]
8	$[\frac{3}{4}, -x, \frac{1}{4}]$	[8, 78, 106, 176]
9	$[\frac{3}{4}, \frac{3}{4}, x]$	[9, 83, 124, 150]
10	$[\frac{1}{4}, -x, \frac{3}{4}]$	[10, 80, 104, 174]
11	$[\frac{1}{4}, \frac{3}{4}, -x]$	[11, 84, 123, 151]
12	$[\frac{3}{4}, x, \frac{3}{4}]$	[12, 79, 101, 173]
13	$[-x, \frac{3}{4}, \frac{3}{4}]$	[13, 62, 133, 182]
14	$[-x, \frac{1}{4}, \frac{1}{4}]$	[14, 61, 134, 181]
15	$[x, \frac{3}{4}, \frac{1}{4}]$	[15, 64, 142, 189]
16	$[x, \frac{1}{4}, \frac{3}{4}]$	[16, 63, 141, 190]
17	$[\frac{3}{4}, -x, \frac{3}{4}]$	[17, 89, 120, 187]
18	$[\frac{3}{4}, \frac{3}{4}, -x]$	[18, 88, 143, 165]
19	$[\frac{1}{4}, \frac{3}{4}, x]$	[19, 87, 144, 167]
20	$[\frac{1}{4}, x, \frac{3}{4}]$	[20, 90, 118, 188]
21	$[\frac{1}{4}, \frac{1}{4}, -x]$	[21, 95, 136, 162]
22	$[\frac{3}{4}, x, \frac{1}{4}]$	[22, 92, 116, 186]
23	$[\frac{3}{4}, \frac{1}{4}, x]$	[23, 96, 135, 163]
24	$[\frac{1}{4}, -x, \frac{1}{4}]$	[24, 91, 113, 185]
25	$[x + \frac{1}{2}, \frac{1}{4}, \frac{3}{4}]$	[25, 74, 97, 146]
26	$[x + \frac{1}{2}, \frac{3}{4}, \frac{1}{4}]$	[26, 73, 98, 145]
27	$[\frac{3}{4}, \frac{3}{4}, \frac{1}{2} - x]$	[27, 55, 107, 180]
28	$[\frac{1}{4}, \frac{3}{4}, x + \frac{1}{2}]$	[28, 54, 105, 179]
29	$[\frac{1}{4}, x + \frac{1}{2}, \frac{3}{4}]$	[29, 53, 127, 156]
30	$[\frac{3}{4}, \frac{1}{2} - x, \frac{3}{4}]$	[30, 56, 128, 154]
31	$[\frac{3}{4}, x + \frac{1}{2}, \frac{1}{4}]$	[31, 60, 125, 149]
32	$[\frac{1}{4}, \frac{1}{2} - x, \frac{1}{4}]$	[32, 58, 126, 152]
33	$[\frac{1}{2} - x, \frac{3}{4}, \frac{3}{4}]$	[33, 82, 100, 147]
34	$[\frac{1}{2} - x, \frac{1}{4}, \frac{1}{4}]$	[34, 81, 99, 148]
35	$[\frac{3}{4}, \frac{1}{4}, x + \frac{1}{2}]$	[35, 57, 102, 172]
36	$[\frac{1}{4}, \frac{1}{4}, \frac{1}{2} - x]$	[36, 59, 103, 171]
37	$[\frac{1}{2} - x, \frac{3}{4}, \frac{1}{4}]$	[37, 86, 109, 158]
38	$[\frac{1}{2} - x, \frac{1}{4}, \frac{3}{4}]$	[38, 85, 110, 157]

continued ...

Table 6

No.	position	mapping
39	$[\frac{1}{4}, \frac{1}{4}, x + \frac{1}{2}]$	[39,67,119,192]
40	$[\frac{3}{4}, \frac{1}{4}, \frac{1}{2} - x]$	[40,66,117,191]
41	$[\frac{3}{4}, \frac{1}{2} - x, \frac{1}{4}]$	[41,65,139,168]
42	$[\frac{1}{4}, x + \frac{1}{2}, \frac{1}{4}]$	[42,68,140,166]
43	$[\frac{1}{4}, \frac{1}{2} - x, \frac{3}{4}]$	[43,72,137,161]
44	$[\frac{3}{4}, x + \frac{1}{2}, \frac{3}{4}]$	[44,70,138,164]
45	$[x + \frac{1}{2}, \frac{1}{4}, \frac{1}{4}]$	[45,94,112,159]
46	$[x + \frac{1}{2}, \frac{3}{4}, \frac{3}{4}]$	[46,93,111,160]
47	$[\frac{1}{4}, \frac{3}{4}, \frac{1}{2} - x]$	[47,69,114,184]
48	$[\frac{3}{4}, \frac{3}{4}, x + \frac{1}{2}]$	[48,71,115,183]

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	$[-x, -x, -x]$	[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	$[x + \frac{1}{2}, \frac{1}{2} - x, x + \frac{1}{2}]$	[25,30,35]
10	$[x + \frac{1}{2}, x + \frac{1}{2}, \frac{1}{2} - x]$	[26,27,31]
11	$[\frac{1}{2} - x, x + \frac{1}{2}, x + \frac{1}{2}]$	[28,29,33]
12	$[\frac{1}{2} - x, \frac{1}{2} - x, \frac{1}{2} - x]$	[32,34,36]
13	$[\frac{1}{2} - x, x + \frac{1}{2}, \frac{1}{2} - x]$	[37,42,47]
14	$[\frac{1}{2} - x, \frac{1}{2} - x, x + \frac{1}{2}]$	[38,39,43]
15	$[x + \frac{1}{2}, \frac{1}{2} - x, \frac{1}{2} - x]$	[40,41,45]
16	$[x + \frac{1}{2}, x + \frac{1}{2}, x + \frac{1}{2}]$	[44,46,48]
17	$[x, x + \frac{1}{2}, x + \frac{1}{2}]$	[49,53,54]
18	$[x, \frac{1}{2} - x, \frac{1}{2} - x]$	[50,58,59]
19	$[-x, x + \frac{1}{2}, \frac{1}{2} - x]$	[51,55,60]
20	$[-x, \frac{1}{2} - x, x + \frac{1}{2}]$	[52,56,57]
21	$[-x, \frac{1}{2} - x, \frac{1}{2} - x]$	[61,65,66]
22	$[-x, x + \frac{1}{2}, x + \frac{1}{2}]$	[62,70,71]
23	$[x, \frac{1}{2} - x, x + \frac{1}{2}]$	[63,67,72]
24	$[x, x + \frac{1}{2}, \frac{1}{2} - x]$	[64,68,69]
25	$[x + \frac{1}{2}, -x, x]$	[73,78,83]
26	$[x + \frac{1}{2}, x, -x]$	[74,75,79]
27	$[\frac{1}{2} - x, x, x]$	[76,77,81]
28	$[\frac{1}{2} - x, -x, -x]$	[80,82,84]
29	$[\frac{1}{2} - x, x, -x]$	[85,90,95]
30	$[\frac{1}{2} - x, -x, x]$	[86,87,91]

continued ...

Table 7

No.	position	mapping
31	$[x + \frac{1}{2}, -x, -x]$	[88,89,93]
32	$[x + \frac{1}{2}, x, x]$	[92,94,96]
33	$[x + \frac{1}{2}, x, x + \frac{1}{2}]$	[97,101,102]
34	$[x + \frac{1}{2}, -x, \frac{1}{2} - x]$	[98,106,107]
35	$[\frac{1}{2} - x, x, \frac{1}{2} - x]$	[99,103,108]
36	$[\frac{1}{2} - x, -x, x + \frac{1}{2}]$	[100,104,105]
37	$[\frac{1}{2} - x, -x, \frac{1}{2} - x]$	[109,113,114]
38	$[\frac{1}{2} - x, x, x + \frac{1}{2}]$	[110,118,119]
39	$[x + \frac{1}{2}, -x, x + \frac{1}{2}]$	[111,115,120]
40	$[x + \frac{1}{2}, x, \frac{1}{2} - x]$	[112,116,117]
41	$[x, \frac{1}{2} - x, x]$	[121,126,131]
42	$[x, x + \frac{1}{2}, -x]$	[122,123,127]
43	$[-x, x + \frac{1}{2}, x]$	[124,125,129]
44	$[-x, \frac{1}{2} - x, -x]$	[128,130,132]
45	$[-x, x + \frac{1}{2}, -x]$	[133,138,143]
46	$[-x, \frac{1}{2} - x, x]$	[134,135,139]
47	$[x, \frac{1}{2} - x, -x]$	[136,137,141]
48	$[x, x + \frac{1}{2}, x]$	[140,142,144]
49	$[x + \frac{1}{2}, x + \frac{1}{2}, x]$	[145,149,150]
50	$[x + \frac{1}{2}, \frac{1}{2} - x, -x]$	[146,154,155]
51	$[\frac{1}{2} - x, x + \frac{1}{2}, -x]$	[147,151,156]
52	$[\frac{1}{2} - x, \frac{1}{2} - x, x]$	[148,152,153]
53	$[\frac{1}{2} - x, \frac{1}{2} - x, -x]$	[157,161,162]
54	$[\frac{1}{2} - x, x + \frac{1}{2}, x]$	[158,166,167]
55	$[x + \frac{1}{2}, \frac{1}{2} - x, x]$	[159,163,168]
56	$[x + \frac{1}{2}, x + \frac{1}{2}, -x]$	[160,164,165]
57	$[x, -x, x + \frac{1}{2}]$	[169,174,179]
58	$[x, x, \frac{1}{2} - x]$	[170,171,175]
59	$[-x, x, x + \frac{1}{2}]$	[172,173,177]
60	$[-x, -x, \frac{1}{2} - x]$	[176,178,180]
61	$[-x, x, \frac{1}{2} - x]$	[181,186,191]
62	$[-x, -x, x + \frac{1}{2}]$	[182,183,187]
63	$[x, -x, \frac{1}{2} - x]$	[184,185,189]
64	$[x, x, x + \frac{1}{2}]$	[188,190,192]

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

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

continued ...

Table 8

No.	position	mapping
7	$[-y, y, \frac{3}{4}]$	[7,172]
8	$[-y, \frac{3}{4}, y]$	[8,125]
9	$[-y, -y, \frac{1}{4}]$	[9,180]
10	$[y, \frac{3}{4}, -y]$	[10,127]
11	$[y, -y, \frac{3}{4}]$	[11,179]
12	$[-y, \frac{1}{4}, -y]$	[12,128]
13	$[\frac{3}{4}, -y, -y]$	[13,93]
14	$[\frac{3}{4}, y, y]$	[14,94]
15	$[\frac{1}{4}, -y, y]$	[15,86]
16	$[\frac{1}{4}, y, -y]$	[16,85]
17	$[-y, \frac{3}{4}, -y]$	[17,138]
18	$[-y, -y, \frac{3}{4}]$	[18,183]
19	$[y, -y, \frac{1}{4}]$	[19,184]
20	$[y, \frac{1}{4}, -y]$	[20,137]
21	$[y, y, \frac{3}{4}]$	[21,192]
22	$[-y, \frac{1}{4}, y]$	[22,139]
23	$[-y, y, \frac{1}{4}]$	[23,191]
24	$[y, \frac{3}{4}, y]$	[24,140]
25	$[\frac{3}{4}, \frac{1}{2} - y, y + \frac{1}{2}]$	[25,52]
26	$[\frac{3}{4}, y + \frac{1}{2}, \frac{1}{2} - y]$	[26,51]
27	$[y + \frac{1}{2}, y + \frac{1}{2}, \frac{1}{4}]$	[27,150]
28	$[\frac{1}{2} - y, y + \frac{1}{2}, \frac{3}{4}]$	[28,151]
29	$[\frac{1}{2} - y, \frac{3}{4}, y + \frac{1}{2}]$	[29,104]
30	$[y + \frac{1}{2}, \frac{1}{4}, y + \frac{1}{2}]$	[30,101]
31	$[y + \frac{1}{2}, \frac{3}{4}, \frac{1}{2} - y]$	[31,106]
32	$[\frac{1}{2} - y, \frac{1}{4}, \frac{1}{2} - y]$	[32,108]
33	$[\frac{1}{4}, y + \frac{1}{2}, y + \frac{1}{2}]$	[33,49]
34	$[\frac{1}{4}, \frac{1}{2} - y, \frac{1}{2} - y]$	[34,50]
35	$[y + \frac{1}{2}, \frac{1}{2} - y, \frac{3}{4}]$	[35,155]
36	$[\frac{1}{2} - y, \frac{1}{2} - y, \frac{1}{4}]$	[36,153]
37	$[\frac{1}{4}, y + \frac{1}{2}, \frac{1}{2} - y]$	[37,64]
38	$[\frac{1}{4}, \frac{1}{2} - y, y + \frac{1}{2}]$	[38,63]
39	$[\frac{1}{2} - y, \frac{1}{2} - y, \frac{3}{4}]$	[39,162]
40	$[y + \frac{1}{2}, \frac{1}{2} - y, \frac{1}{4}]$	[40,163]
41	$[y + \frac{1}{2}, \frac{1}{4}, \frac{1}{2} - y]$	[41,116]
42	$[\frac{1}{2} - y, \frac{3}{4}, \frac{1}{2} - y]$	[42,113]
43	$[\frac{1}{2} - y, \frac{1}{4}, y + \frac{1}{2}]$	[43,118]
44	$[y + \frac{1}{2}, \frac{3}{4}, y + \frac{1}{2}]$	[44,120]
45	$[\frac{3}{4}, \frac{1}{2} - y, \frac{1}{2} - y]$	[45,61]
46	$[\frac{3}{4}, y + \frac{1}{2}, y + \frac{1}{2}]$	[46,62]
47	$[\frac{1}{2} - y, y + \frac{1}{2}, \frac{1}{4}]$	[47,167]
48	$[y + \frac{1}{2}, y + \frac{1}{2}, \frac{3}{4}]$	[48,165]
49	$[y, \frac{3}{4}, y + \frac{1}{2}]$	[53,174]
50	$[y, y + \frac{1}{2}, \frac{3}{4}]$	[54,123]
51	$[-y, y + \frac{1}{2}, \frac{1}{4}]$	[55,124]
52	$[-y, \frac{1}{4}, y + \frac{1}{2}]$	[56,173]
53	$[-y, \frac{1}{2} - y, \frac{3}{4}]$	[57,132]

continued ...

Table 8

No.	position	mapping
54	$[y, \frac{1}{4}, \frac{1}{2} - y]$	[58,175]
55	$[y, \frac{1}{2} - y, \frac{1}{4}]$	[59,131]
56	$[-y, \frac{3}{4}, \frac{1}{2} - y]$	[60,176]
57	$[-y, \frac{1}{4}, \frac{1}{2} - y]$	[65,186]
58	$[-y, \frac{1}{2} - y, \frac{1}{4}]$	[66,135]
59	$[y, \frac{1}{2} - y, \frac{3}{4}]$	[67,136]
60	$[y, \frac{3}{4}, \frac{1}{2} - y]$	[68,185]
61	$[y, y + \frac{1}{2}, \frac{1}{4}]$	[69,144]
62	$[-y, \frac{3}{4}, y + \frac{1}{2}]$	[70,187]
63	$[-y, y + \frac{1}{2}, \frac{3}{4}]$	[71,143]
64	$[y, \frac{1}{4}, y + \frac{1}{2}]$	[72,188]
65	$[y + \frac{1}{2}, y, \frac{3}{4}]$	[75,102]
66	$[\frac{1}{2} - y, y, \frac{1}{4}]$	[76,103]
67	$[\frac{1}{2} - y, \frac{1}{4}, y]$	[77,152]
68	$[y + \frac{1}{2}, \frac{3}{4}, y]$	[78,149]
69	$[y + \frac{1}{2}, \frac{1}{4}, -y]$	[79,154]
70	$[\frac{1}{2} - y, \frac{3}{4}, -y]$	[80,156]
71	$[y + \frac{1}{2}, -y, \frac{1}{4}]$	[83,107]
72	$[\frac{1}{2} - y, -y, \frac{3}{4}]$	[84,105]
73	$[\frac{1}{2} - y, -y, \frac{1}{4}]$	[87,114]
74	$[y + \frac{1}{2}, -y, \frac{3}{4}]$	[88,115]
75	$[y + \frac{1}{2}, \frac{3}{4}, -y]$	[89,164]
76	$[\frac{1}{2} - y, \frac{1}{4}, -y]$	[90,161]
77	$[\frac{1}{2} - y, \frac{3}{4}, y]$	[91,166]
78	$[y + \frac{1}{2}, \frac{1}{4}, y]$	[92,168]
79	$[\frac{1}{2} - y, y, \frac{3}{4}]$	[95,119]
80	$[y + \frac{1}{2}, y, \frac{1}{4}]$	[96,117]
81	$[\frac{3}{4}, y, y + \frac{1}{2}]$	[97,177]
82	$[\frac{3}{4}, -y, \frac{1}{2} - y]$	[98,178]
83	$[\frac{1}{4}, y, \frac{1}{2} - y]$	[99,170]
84	$[\frac{1}{4}, -y, y + \frac{1}{2}]$	[100,169]
85	$[\frac{1}{4}, -y, \frac{1}{2} - y]$	[109,189]
86	$[\frac{1}{4}, y, y + \frac{1}{2}]$	[110,190]
87	$[\frac{3}{4}, -y, y + \frac{1}{2}]$	[111,182]
88	$[\frac{3}{4}, y, \frac{1}{2} - y]$	[112,181]
89	$[\frac{1}{4}, \frac{1}{2} - y, y]$	[121,148]
90	$[\frac{1}{4}, y + \frac{1}{2}, -y]$	[122,147]
91	$[\frac{3}{4}, y + \frac{1}{2}, y]$	[129,145]
92	$[\frac{3}{4}, \frac{1}{2} - y, -y]$	[130,146]
93	$[\frac{3}{4}, y + \frac{1}{2}, -y]$	[133,160]
94	$[\frac{3}{4}, \frac{1}{2} - y, y]$	[134,159]
95	$[\frac{1}{4}, \frac{1}{2} - y, -y]$	[141,157]
96	$[\frac{1}{4}, y + \frac{1}{2}, y]$	[142,158]

Table 9: Wyckoff site: 96i, site symmetry: $\mathbf{m} \cdot \cdot$

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	$[\frac{1}{2}, \frac{1}{2} - z, y + \frac{1}{2}]$	[25,38]
14	$[\frac{1}{2}, z + \frac{1}{2}, \frac{1}{2} - y]$	[26,37]
15	$[z + \frac{1}{2}, y + \frac{1}{2}, \frac{1}{2}]$	[27,48]
16	$[\frac{1}{2} - z, y + \frac{1}{2}, \frac{1}{2}]$	[28,47]
17	$[\frac{1}{2} - y, \frac{1}{2}, z + \frac{1}{2}]$	[29,43]
18	$[y + \frac{1}{2}, \frac{1}{2}, z + \frac{1}{2}]$	[30,44]
19	$[y + \frac{1}{2}, \frac{1}{2}, \frac{1}{2} - z]$	[31,41]
20	$[\frac{1}{2} - y, \frac{1}{2}, \frac{1}{2} - z]$	[32,42]
21	$[\frac{1}{2}, z + \frac{1}{2}, y + \frac{1}{2}]$	[33,46]
22	$[\frac{1}{2}, \frac{1}{2} - z, \frac{1}{2} - y]$	[34,45]
23	$[z + \frac{1}{2}, \frac{1}{2} - y, \frac{1}{2}]$	[35,40]
24	$[\frac{1}{2} - z, \frac{1}{2} - y, \frac{1}{2}]$	[36,39]
25	$[0, y + \frac{1}{2}, z + \frac{1}{2}]$	[49,62]
26	$[0, \frac{1}{2} - y, \frac{1}{2} - z]$	[50,61]
27	$[0, y + \frac{1}{2}, \frac{1}{2} - z]$	[51,64]
28	$[0, \frac{1}{2} - y, z + \frac{1}{2}]$	[52,63]
29	$[z, \frac{1}{2}, y + \frac{1}{2}]$	[53,72]
30	$[y, z + \frac{1}{2}, \frac{1}{2}]$	[54,69]
31	$[-y, z + \frac{1}{2}, \frac{1}{2}]$	[55,71]
32	$[-z, \frac{1}{2}, y + \frac{1}{2}]$	[56,70]
33	$[-y, \frac{1}{2} - z, \frac{1}{2}]$	[57,66]
34	$[z, \frac{1}{2}, \frac{1}{2} - y]$	[58,68]
35	$[y, \frac{1}{2} - z, \frac{1}{2}]$	[59,67]
36	$[-z, \frac{1}{2}, \frac{1}{2} - y]$	[60,65]
37	$[\frac{1}{2}, -z, y]$	[73,86]
38	$[\frac{1}{2}, z, -y]$	[74,85]
39	$[z + \frac{1}{2}, y, 0]$	[75,96]
40	$[\frac{1}{2} - z, y, 0]$	[76,95]
41	$[\frac{1}{2} - y, 0, z]$	[77,91]
42	$[y + \frac{1}{2}, 0, z]$	[78,92]
43	$[y + \frac{1}{2}, 0, -z]$	[79,89]
44	$[\frac{1}{2} - y, 0, -z]$	[80,90]
45	$[\frac{1}{2}, z, y]$	[81,94]
46	$[\frac{1}{2}, -z, -y]$	[82,93]

continued ...

Table 9

No.	position	mapping
47	$[z + \frac{1}{2}, -y, 0]$	[83,88]
48	$[\frac{1}{2} - z, -y, 0]$	[84,87]
49	$[\frac{1}{2}, y, z + \frac{1}{2}]$	[97,110]
50	$[\frac{1}{2}, -y, \frac{1}{2} - z]$	[98,109]
51	$[\frac{1}{2}, y, \frac{1}{2} - z]$	[99,112]
52	$[\frac{1}{2}, -y, z + \frac{1}{2}]$	[100,111]
53	$[z + \frac{1}{2}, 0, y + \frac{1}{2}]$	[101,120]
54	$[y + \frac{1}{2}, z, \frac{1}{2}]$	[102,117]
55	$[\frac{1}{2} - y, z, \frac{1}{2}]$	[103,119]
56	$[\frac{1}{2} - z, 0, y + \frac{1}{2}]$	[104,118]
57	$[\frac{1}{2} - y, -z, \frac{1}{2}]$	[105,114]
58	$[z + \frac{1}{2}, 0, \frac{1}{2} - y]$	[106,116]
59	$[y + \frac{1}{2}, -z, \frac{1}{2}]$	[107,115]
60	$[\frac{1}{2} - z, 0, \frac{1}{2} - y]$	[108,113]
61	$[0, \frac{1}{2} - z, y]$	[121,134]
62	$[0, z + \frac{1}{2}, -y]$	[122,133]
63	$[z, y + \frac{1}{2}, 0]$	[123,144]
64	$[-z, y + \frac{1}{2}, 0]$	[124,143]
65	$[-y, \frac{1}{2}, z]$	[125,139]
66	$[y, \frac{1}{2}, z]$	[126,140]
67	$[y, \frac{1}{2}, -z]$	[127,137]
68	$[-y, \frac{1}{2}, -z]$	[128,138]
69	$[0, z + \frac{1}{2}, y]$	[129,142]
70	$[0, \frac{1}{2} - z, -y]$	[130,141]
71	$[z, \frac{1}{2} - y, 0]$	[131,136]
72	$[-z, \frac{1}{2} - y, 0]$	[132,135]
73	$[\frac{1}{2}, y + \frac{1}{2}, z]$	[145,158]
74	$[\frac{1}{2}, \frac{1}{2} - y, -z]$	[146,157]
75	$[\frac{1}{2}, y + \frac{1}{2}, -z]$	[147,160]
76	$[\frac{1}{2}, \frac{1}{2} - y, z]$	[148,159]
77	$[z + \frac{1}{2}, \frac{1}{2}, y]$	[149,168]
78	$[y + \frac{1}{2}, z + \frac{1}{2}, 0]$	[150,165]
79	$[\frac{1}{2} - y, z + \frac{1}{2}, 0]$	[151,167]
80	$[\frac{1}{2} - z, \frac{1}{2}, y]$	[152,166]
81	$[\frac{1}{2} - y, \frac{1}{2} - z, 0]$	[153,162]
82	$[z + \frac{1}{2}, \frac{1}{2}, -y]$	[154,164]
83	$[y + \frac{1}{2}, \frac{1}{2} - z, 0]$	[155,163]
84	$[\frac{1}{2} - z, \frac{1}{2}, -y]$	[156,161]
85	$[0, -z, y + \frac{1}{2}]$	[169,182]
86	$[0, z, \frac{1}{2} - y]$	[170,181]
87	$[z, y, \frac{1}{2}]$	[171,192]
88	$[-z, y, \frac{1}{2}]$	[172,191]
89	$[-y, 0, z + \frac{1}{2}]$	[173,187]
90	$[y, 0, z + \frac{1}{2}]$	[174,188]
91	$[y, 0, \frac{1}{2} - z]$	[175,185]
92	$[-y, 0, \frac{1}{2} - z]$	[176,186]
93	$[0, z, y + \frac{1}{2}]$	[177,190]

continued ...

Table 9

No.	position	mapping
94	$[0, -z, \frac{1}{2} - y]$	[178,189]
95	$[z, -y, \frac{1}{2}]$	[179,184]
96	$[-z, -y, \frac{1}{2}]$	[180,183]

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	$[-x, -y, -z]$	[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	$[x + \frac{1}{2}, \frac{1}{2} - z, y + \frac{1}{2}]$	[25]
26	$[x + \frac{1}{2}, z + \frac{1}{2}, \frac{1}{2} - y]$	[26]
27	$[z + \frac{1}{2}, y + \frac{1}{2}, \frac{1}{2} - x]$	[27]
28	$[\frac{1}{2} - z, y + \frac{1}{2}, x + \frac{1}{2}]$	[28]
29	$[\frac{1}{2} - y, x + \frac{1}{2}, z + \frac{1}{2}]$	[29]
30	$[y + \frac{1}{2}, \frac{1}{2} - x, z + \frac{1}{2}]$	[30]
31	$[y + \frac{1}{2}, x + \frac{1}{2}, \frac{1}{2} - z]$	[31]
32	$[\frac{1}{2} - y, \frac{1}{2} - x, \frac{1}{2} - z]$	[32]
33	$[\frac{1}{2} - x, z + \frac{1}{2}, y + \frac{1}{2}]$	[33]
34	$[\frac{1}{2} - x, \frac{1}{2} - z, \frac{1}{2} - y]$	[34]
35	$[z + \frac{1}{2}, \frac{1}{2} - y, x + \frac{1}{2}]$	[35]
36	$[\frac{1}{2} - z, \frac{1}{2} - y, \frac{1}{2} - x]$	[36]
37	$[\frac{1}{2} - x, z + \frac{1}{2}, \frac{1}{2} - y]$	[37]

continued ...

Table 10

No.	position	mapping
38	$[\frac{1}{2} - x, \frac{1}{2} - z, y + \frac{1}{2}]$	[38]
39	$[\frac{1}{2} - z, \frac{1}{2} - y, x + \frac{1}{2}]$	[39]
40	$[z + \frac{1}{2}, \frac{1}{2} - y, \frac{1}{2} - x]$	[40]
41	$[y + \frac{1}{2}, \frac{1}{2} - x, \frac{1}{2} - z]$	[41]
42	$[\frac{1}{2} - y, x + \frac{1}{2}, \frac{1}{2} - z]$	[42]
43	$[\frac{1}{2} - y, \frac{1}{2} - x, z + \frac{1}{2}]$	[43]
44	$[y + \frac{1}{2}, x + \frac{1}{2}, z + \frac{1}{2}]$	[44]
45	$[x + \frac{1}{2}, \frac{1}{2} - z, \frac{1}{2} - y]$	[45]
46	$[x + \frac{1}{2}, z + \frac{1}{2}, y + \frac{1}{2}]$	[46]
47	$[\frac{1}{2} - z, y + \frac{1}{2}, \frac{1}{2} - x]$	[47]
48	$[z + \frac{1}{2}, y + \frac{1}{2}, x + \frac{1}{2}]$	[48]
49	$[x, y + \frac{1}{2}, z + \frac{1}{2}]$	[49]
50	$[x, \frac{1}{2} - y, \frac{1}{2} - z]$	[50]
51	$[-x, y + \frac{1}{2}, \frac{1}{2} - z]$	[51]
52	$[-x, \frac{1}{2} - y, z + \frac{1}{2}]$	[52]
53	$[z, x + \frac{1}{2}, y + \frac{1}{2}]$	[53]
54	$[y, z + \frac{1}{2}, x + \frac{1}{2}]$	[54]
55	$[-y, z + \frac{1}{2}, \frac{1}{2} - x]$	[55]
56	$[-z, \frac{1}{2} - x, y + \frac{1}{2}]$	[56]
57	$[-y, \frac{1}{2} - z, x + \frac{1}{2}]$	[57]
58	$[z, \frac{1}{2} - x, \frac{1}{2} - y]$	[58]
59	$[y, \frac{1}{2} - z, \frac{1}{2} - x]$	[59]
60	$[-z, x + \frac{1}{2}, \frac{1}{2} - y]$	[60]
61	$[-x, \frac{1}{2} - y, \frac{1}{2} - z]$	[61]
62	$[-x, y + \frac{1}{2}, z + \frac{1}{2}]$	[62]
63	$[x, \frac{1}{2} - y, z + \frac{1}{2}]$	[63]
64	$[x, y + \frac{1}{2}, \frac{1}{2} - z]$	[64]
65	$[-z, \frac{1}{2} - x, \frac{1}{2} - y]$	[65]
66	$[-y, \frac{1}{2} - z, \frac{1}{2} - x]$	[66]
67	$[y, \frac{1}{2} - z, x + \frac{1}{2}]$	[67]
68	$[z, x + \frac{1}{2}, \frac{1}{2} - y]$	[68]
69	$[y, z + \frac{1}{2}, \frac{1}{2} - x]$	[69]
70	$[-z, x + \frac{1}{2}, y + \frac{1}{2}]$	[70]
71	$[-y, z + \frac{1}{2}, x + \frac{1}{2}]$	[71]
72	$[z, \frac{1}{2} - x, y + \frac{1}{2}]$	[72]
73	$[x + \frac{1}{2}, -z, y]$	[73]
74	$[x + \frac{1}{2}, z, -y]$	[74]
75	$[z + \frac{1}{2}, y, -x]$	[75]
76	$[\frac{1}{2} - z, y, x]$	[76]
77	$[\frac{1}{2} - y, x, z]$	[77]
78	$[y + \frac{1}{2}, -x, z]$	[78]
79	$[y + \frac{1}{2}, x, -z]$	[79]
80	$[\frac{1}{2} - y, -x, -z]$	[80]
81	$[\frac{1}{2} - x, z, y]$	[81]
82	$[\frac{1}{2} - x, -z, -y]$	[82]
83	$[z + \frac{1}{2}, -y, x]$	[83]
84	$[\frac{1}{2} - z, -y, -x]$	[84]

continued ...

Table 10

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

continued ...

Table 10

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

continued ...

Table 10

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