

MSG No. 226.122 $Fm\bar{3}c$ [Type I, cubic]

Table 1: Wyckoff site: 8a, site symmetry: 432

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

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

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

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

No.	position	mapping
1	$[\frac{1}{4}, 0, 0]$	[1, 8, 33, 34, 61, 62, 74, 75]
2	$[\frac{3}{4}, \frac{1}{2}, \frac{1}{2}]$	[2, 3, 37, 38, 57, 58, 73, 80]
3	$[\frac{1}{2}, \frac{1}{2}, \frac{1}{4}]$	[4, 16, 29, 39, 162, 165, 187, 191]
4	$[\frac{1}{2}, \frac{1}{2}, \frac{3}{4}]$	[5, 15, 28, 40, 163, 167, 186, 189]
5	$[\frac{1}{2}, \frac{3}{4}, \frac{1}{2}]$	[6, 11, 31, 36, 116, 118, 137, 144]
6	$[\frac{1}{2}, \frac{1}{4}, \frac{1}{2}]$	[7, 12, 30, 35, 113, 120, 140, 142]
7	$[\frac{3}{4}, 0, 0]$	[9, 10, 25, 32, 50, 51, 85, 86]
8	$[\frac{1}{4}, \frac{1}{2}, \frac{1}{2}]$	[13, 14, 26, 27, 49, 56, 81, 82]
9	$[0, \frac{1}{4}, 0]$	[17, 24, 44, 46, 103, 108, 126, 131]
10	$[0, 0, \frac{1}{4}]$	[18, 21, 43, 47, 148, 160, 173, 183]
11	$[0, 0, \frac{3}{4}]$	[19, 23, 42, 45, 149, 159, 172, 184]
12	$[0, \frac{3}{4}, 0]$	[20, 22, 41, 48, 102, 107, 127, 132]
13	$[\frac{1}{2}, 0, \frac{3}{4}]$	[52, 64, 77, 87, 114, 117, 139, 143]
14	$[\frac{1}{2}, 0, \frac{1}{4}]$	[53, 63, 76, 88, 115, 119, 138, 141]
15	$[\frac{1}{2}, \frac{1}{4}, 0]$	[54, 59, 79, 84, 164, 166, 185, 192]

continued ...

Table 3

No.	position	mapping
16	$[\frac{1}{2}, \frac{3}{4}, 0]$	[55, 60, 78, 83, 161, 168, 188, 190]
17	$[0, \frac{3}{4}, \frac{1}{2}]$	[65, 72, 92, 94, 151, 156, 174, 179]
18	$[0, \frac{1}{2}, \frac{3}{4}]$	[66, 69, 91, 95, 100, 112, 125, 135]
19	$[0, \frac{1}{2}, \frac{1}{4}]$	[67, 71, 90, 93, 101, 111, 124, 136]
20	$[0, \frac{1}{4}, \frac{1}{2}]$	[68, 70, 89, 96, 150, 155, 175, 180]
21	$[\frac{3}{4}, 0, \frac{1}{2}]$	[97, 104, 129, 130, 157, 158, 170, 171]
22	$[\frac{1}{4}, \frac{1}{2}, 0]$	[98, 99, 133, 134, 153, 154, 169, 176]
23	$[\frac{1}{4}, 0, \frac{1}{2}]$	[105, 106, 121, 128, 146, 147, 181, 182]
24	$[\frac{3}{4}, \frac{1}{2}, 0]$	[109, 110, 122, 123, 145, 152, 177, 178]

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

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

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

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

continued ...

Table 5

No.	position	mapping
47	$\left[\frac{1}{2}, \frac{1}{2}, -x\right]$	[163,167,186,189]
48	$\left[\frac{1}{2}, \frac{1}{2} - x, 0\right]$	[164,166,185,192]

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

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

continued ...

Table 6

No.	position	mapping
39	$[\frac{1}{4}, \frac{3}{4}, \frac{1}{2} - x]$	[39,93,138,173]
40	$[\frac{3}{4}, \frac{3}{4}, x + \frac{1}{2}]$	[40,95,139,172]
41	$[\frac{3}{4}, -x, \frac{3}{4}]$	[41,78,144,179]
42	$[\frac{3}{4}, \frac{3}{4}, -x]$	[42,77,135,189]
43	$[\frac{1}{4}, \frac{3}{4}, x]$	[43,76,136,191]
44	$[\frac{1}{4}, x, \frac{3}{4}]$	[44,79,142,180]
45	$[\frac{1}{4}, \frac{1}{4}, -x]$	[45,87,125,186]
46	$[\frac{3}{4}, x, \frac{1}{4}]$	[46,84,140,175]
47	$[\frac{3}{4}, \frac{1}{4}, x]$	[47,88,124,187]
48	$[\frac{1}{4}, -x, \frac{1}{4}]$	[48,83,137,174]

Table 7: Wyckoff site: 64g, site symmetry: .3.

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

continued ...

Table 7

No.	position	mapping
31	$[x, x + \frac{1}{2}, \frac{1}{2} - x]$	[82,92,93]
32	$[x + \frac{1}{2}, x, x]$	[84,86,88]
33	$[x + \frac{1}{2}, x, x + \frac{1}{2}]$	[97,113,114]
34	$[x, \frac{1}{2} - x, x]$	[98,103,111]
35	$[x, x + \frac{1}{2}, -x]$	[99,100,107]
36	$[-x, x + \frac{1}{2}, x]$	[101,102,109]
37	$[x + \frac{1}{2}, -x, \frac{1}{2} - x]$	[104,118,119]
38	$[\frac{1}{2} - x, x, \frac{1}{2} - x]$	[105,115,120]
39	$[\frac{1}{2} - x, -x, x + \frac{1}{2}]$	[106,116,117]
40	$[-x, \frac{1}{2} - x, -x]$	[108,110,112]
41	$[\frac{1}{2} - x, -x, \frac{1}{2} - x]$	[121,137,138]
42	$[-x, x + \frac{1}{2}, -x]$	[122,127,135]
43	$[-x, \frac{1}{2} - x, x]$	[123,124,131]
44	$[x, \frac{1}{2} - x, -x]$	[125,126,133]
45	$[\frac{1}{2} - x, x, x + \frac{1}{2}]$	[128,142,143]
46	$[x + \frac{1}{2}, -x, x + \frac{1}{2}]$	[129,139,144]
47	$[x + \frac{1}{2}, x, \frac{1}{2} - x]$	[130,140,141]
48	$[x, x + \frac{1}{2}, x]$	[132,134,136]
49	$[x + \frac{1}{2}, x + \frac{1}{2}, x]$	[145,161,162]
50	$[x, -x, x + \frac{1}{2}]$	[146,151,159]
51	$[x, x, \frac{1}{2} - x]$	[147,148,155]
52	$[-x, x, x + \frac{1}{2}]$	[149,150,157]
53	$[x + \frac{1}{2}, \frac{1}{2} - x, -x]$	[152,166,167]
54	$[\frac{1}{2} - x, x + \frac{1}{2}, -x]$	[153,163,168]
55	$[\frac{1}{2} - x, \frac{1}{2} - x, x]$	[154,164,165]
56	$[-x, -x, \frac{1}{2} - x]$	[156,158,160]
57	$[\frac{1}{2} - x, \frac{1}{2} - x, -x]$	[169,185,186]
58	$[-x, x, \frac{1}{2} - x]$	[170,175,183]
59	$[-x, -x, x + \frac{1}{2}]$	[171,172,179]
60	$[x, -x, \frac{1}{2} - x]$	[173,174,181]
61	$[\frac{1}{2} - x, x + \frac{1}{2}, x]$	[176,190,191]
62	$[x + \frac{1}{2}, \frac{1}{2} - x, x]$	[177,187,192]
63	$[x + \frac{1}{2}, x + \frac{1}{2}, -x]$	[178,188,189]
64	$[x, x, x + \frac{1}{2}]$	[180,182,184]

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

No.	position	mapping
1	$[\frac{1}{4}, y, y]$	[1,61]
2	$[\frac{3}{4}, \frac{1}{2} - y, y + \frac{1}{2}]$	[2,58]
3	$[\frac{3}{4}, y + \frac{1}{2}, \frac{1}{2} - y]$	[3,57]
4	$[y + \frac{1}{2}, y + \frac{1}{2}, \frac{1}{4}]$	[4,162]
5	$[\frac{1}{2} - y, y + \frac{1}{2}, \frac{3}{4}]$	[5,163]
6	$[\frac{1}{2} - y, \frac{3}{4}, y + \frac{1}{2}]$	[6,116]

continued ...

Table 8

No.	position	mapping
7	$[y + \frac{1}{2}, \frac{1}{4}, y + \frac{1}{2}]$	[7,113]
8	$[\frac{1}{4}, -y, -y]$	[8,62]
9	$[\frac{3}{4}, y, -y]$	[9,51]
10	$[\frac{3}{4}, -y, y]$	[10,50]
11	$[y + \frac{1}{2}, \frac{3}{4}, \frac{1}{2} - y]$	[11,118]
12	$[\frac{1}{2} - y, \frac{1}{4}, \frac{1}{2} - y]$	[12,120]
13	$[\frac{1}{4}, y + \frac{1}{2}, y + \frac{1}{2}]$	[13,49]
14	$[\frac{1}{4}, \frac{1}{2} - y, \frac{1}{2} - y]$	[14,56]
15	$[y + \frac{1}{2}, \frac{1}{2} - y, \frac{3}{4}]$	[15,167]
16	$[\frac{1}{2} - y, \frac{1}{2} - y, \frac{1}{4}]$	[16,165]
17	$[y, \frac{1}{4}, y]$	[17,103]
18	$[y, y, \frac{1}{4}]$	[18,148]
19	$[-y, y, \frac{3}{4}]$	[19,149]
20	$[-y, \frac{3}{4}, y]$	[20,102]
21	$[-y, -y, \frac{1}{4}]$	[21,160]
22	$[y, \frac{3}{4}, -y]$	[22,107]
23	$[y, -y, \frac{3}{4}]$	[23,159]
24	$[-y, \frac{1}{4}, -y]$	[24,108]
25	$[\frac{3}{4}, -y, -y]$	[25,85]
26	$[\frac{1}{4}, y + \frac{1}{2}, \frac{1}{2} - y]$	[26,82]
27	$[\frac{1}{4}, \frac{1}{2} - y, y + \frac{1}{2}]$	[27,81]
28	$[\frac{1}{2} - y, \frac{1}{2} - y, \frac{3}{4}]$	[28,186]
29	$[y + \frac{1}{2}, \frac{1}{2} - y, \frac{1}{4}]$	[29,187]
30	$[y + \frac{1}{2}, \frac{1}{4}, \frac{1}{2} - y]$	[30,140]
31	$[\frac{1}{2} - y, \frac{3}{4}, \frac{1}{2} - y]$	[31,137]
32	$[\frac{3}{4}, y, y]$	[32,86]
33	$[\frac{1}{4}, -y, y]$	[33,75]
34	$[\frac{1}{4}, y, -y]$	[34,74]
35	$[\frac{1}{2} - y, \frac{1}{4}, y + \frac{1}{2}]$	[35,142]
36	$[y + \frac{1}{2}, \frac{3}{4}, y + \frac{1}{2}]$	[36,144]
37	$[\frac{3}{4}, \frac{1}{2} - y, \frac{1}{2} - y]$	[37,73]
38	$[\frac{3}{4}, y + \frac{1}{2}, y + \frac{1}{2}]$	[38,80]
39	$[\frac{1}{2} - y, y + \frac{1}{2}, \frac{1}{4}]$	[39,191]
40	$[y + \frac{1}{2}, y + \frac{1}{2}, \frac{3}{4}]$	[40,189]
41	$[-y, \frac{3}{4}, -y]$	[41,127]
42	$[-y, -y, \frac{3}{4}]$	[42,172]
43	$[y, -y, \frac{1}{4}]$	[43,173]
44	$[y, \frac{1}{4}, -y]$	[44,126]
45	$[y, y, \frac{3}{4}]$	[45,184]
46	$[-y, \frac{1}{4}, y]$	[46,131]
47	$[-y, y, \frac{1}{4}]$	[47,183]
48	$[y, \frac{3}{4}, y]$	[48,132]
49	$[y + \frac{1}{2}, y, \frac{3}{4}]$	[52,114]
50	$[\frac{1}{2} - y, y, \frac{1}{4}]$	[53,115]
51	$[\frac{1}{2} - y, \frac{1}{4}, y]$	[54,164]
52	$[y + \frac{1}{2}, \frac{3}{4}, y]$	[55,161]
53	$[y + \frac{1}{2}, \frac{1}{4}, -y]$	[59,166]

continued ...

Table 8

No.	position	mapping
54	$[\frac{1}{2} - y, \frac{3}{4}, -y]$	[60,168]
55	$[y + \frac{1}{2}, -y, \frac{1}{4}]$	[63,119]
56	$[\frac{1}{2} - y, -y, \frac{3}{4}]$	[64,117]
57	$[y, \frac{3}{4}, y + \frac{1}{2}]$	[65,151]
58	$[y, y + \frac{1}{2}, \frac{3}{4}]$	[66,100]
59	$[-y, y + \frac{1}{2}, \frac{1}{4}]$	[67,101]
60	$[-y, \frac{1}{4}, y + \frac{1}{2}]$	[68,150]
61	$[-y, \frac{1}{2} - y, \frac{3}{4}]$	[69,112]
62	$[y, \frac{1}{4}, \frac{1}{2} - y]$	[70,155]
63	$[y, \frac{1}{2} - y, \frac{1}{4}]$	[71,111]
64	$[-y, \frac{3}{4}, \frac{1}{2} - y]$	[72,156]
65	$[\frac{1}{2} - y, -y, \frac{1}{4}]$	[76,138]
66	$[y + \frac{1}{2}, -y, \frac{3}{4}]$	[77,139]
67	$[y + \frac{1}{2}, \frac{3}{4}, -y]$	[78,188]
68	$[\frac{1}{2} - y, \frac{1}{4}, -y]$	[79,185]
69	$[\frac{1}{2} - y, \frac{3}{4}, y]$	[83,190]
70	$[y + \frac{1}{2}, \frac{1}{4}, y]$	[84,192]
71	$[\frac{1}{2} - y, y, \frac{3}{4}]$	[87,143]
72	$[y + \frac{1}{2}, y, \frac{1}{4}]$	[88,141]
73	$[-y, \frac{1}{4}, \frac{1}{2} - y]$	[89,175]
74	$[-y, \frac{1}{2} - y, \frac{1}{4}]$	[90,124]
75	$[y, \frac{1}{2} - y, \frac{3}{4}]$	[91,125]
76	$[y, \frac{3}{4}, \frac{1}{2} - y]$	[92,174]
77	$[y, y + \frac{1}{2}, \frac{1}{4}]$	[93,136]
78	$[-y, \frac{3}{4}, y + \frac{1}{2}]$	[94,179]
79	$[-y, y + \frac{1}{2}, \frac{3}{4}]$	[95,135]
80	$[y, \frac{1}{4}, y + \frac{1}{2}]$	[96,180]
81	$[\frac{3}{4}, y, y + \frac{1}{2}]$	[97,157]
82	$[\frac{1}{4}, \frac{1}{2} - y, y]$	[98,154]
83	$[\frac{1}{4}, y + \frac{1}{2}, -y]$	[99,153]
84	$[\frac{3}{4}, -y, \frac{1}{2} - y]$	[104,158]
85	$[\frac{1}{4}, y, \frac{1}{2} - y]$	[105,147]
86	$[\frac{1}{4}, -y, y + \frac{1}{2}]$	[106,146]
87	$[\frac{3}{4}, y + \frac{1}{2}, y]$	[109,145]
88	$[\frac{3}{4}, \frac{1}{2} - y, -y]$	[110,152]
89	$[\frac{1}{4}, -y, \frac{1}{2} - y]$	[121,181]
90	$[\frac{3}{4}, y + \frac{1}{2}, -y]$	[122,178]
91	$[\frac{3}{4}, \frac{1}{2} - y, y]$	[123,177]
92	$[\frac{1}{4}, y, y + \frac{1}{2}]$	[128,182]
93	$[\frac{3}{4}, -y, y + \frac{1}{2}]$	[129,171]
94	$[\frac{3}{4}, y, \frac{1}{2} - y]$	[130,170]
95	$[\frac{1}{4}, \frac{1}{2} - y, -y]$	[133,169]
96	$[\frac{1}{4}, y + \frac{1}{2}, y]$	[134,176]

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

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

continued ...

Table 9

No.	position	mapping
47	$[y, \frac{1}{2} - z, \frac{1}{2}]$	[71, 91]
48	$[-z, \frac{1}{2}, \frac{1}{2} - y]$	[72, 89]
49	$[\frac{1}{2}, y, z + \frac{1}{2}]$	[97, 128]
50	$[0, \frac{1}{2} - z, y]$	[98, 123]
51	$[0, z + \frac{1}{2}, -y]$	[99, 122]
52	$[z, y + \frac{1}{2}, 0]$	[100, 136]
53	$[-z, y + \frac{1}{2}, 0]$	[101, 135]
54	$[-y, \frac{1}{2}, z]$	[102, 131]
55	$[y, \frac{1}{2}, z]$	[103, 132]
56	$[\frac{1}{2}, -y, \frac{1}{2} - z]$	[104, 121]
57	$[\frac{1}{2}, y, \frac{1}{2} - z]$	[105, 130]
58	$[\frac{1}{2}, -y, z + \frac{1}{2}]$	[106, 129]
59	$[y, \frac{1}{2}, -z]$	[107, 126]
60	$[-y, \frac{1}{2}, -z]$	[108, 127]
61	$[0, z + \frac{1}{2}, y]$	[109, 134]
62	$[0, \frac{1}{2} - z, -y]$	[110, 133]
63	$[z, \frac{1}{2} - y, 0]$	[111, 125]
64	$[-z, \frac{1}{2} - y, 0]$	[112, 124]
65	$[z + \frac{1}{2}, 0, y + \frac{1}{2}]$	[113, 144]
66	$[y + \frac{1}{2}, z, \frac{1}{2}]$	[114, 141]
67	$[\frac{1}{2} - y, z, \frac{1}{2}]$	[115, 143]
68	$[\frac{1}{2} - z, 0, y + \frac{1}{2}]$	[116, 142]
69	$[\frac{1}{2} - y, -z, \frac{1}{2}]$	[117, 138]
70	$[z + \frac{1}{2}, 0, \frac{1}{2} - y]$	[118, 140]
71	$[y + \frac{1}{2}, -z, \frac{1}{2}]$	[119, 139]
72	$[\frac{1}{2} - z, 0, \frac{1}{2} - y]$	[120, 137]
73	$[\frac{1}{2}, y + \frac{1}{2}, z]$	[145, 176]
74	$[0, -z, y + \frac{1}{2}]$	[146, 171]
75	$[0, z, \frac{1}{2} - y]$	[147, 170]
76	$[z, y, \frac{1}{2}]$	[148, 184]
77	$[-z, y, \frac{1}{2}]$	[149, 183]
78	$[-y, 0, z + \frac{1}{2}]$	[150, 179]
79	$[y, 0, z + \frac{1}{2}]$	[151, 180]
80	$[\frac{1}{2}, \frac{1}{2} - y, -z]$	[152, 169]
81	$[\frac{1}{2}, y + \frac{1}{2}, -z]$	[153, 178]
82	$[\frac{1}{2}, \frac{1}{2} - y, z]$	[154, 177]
83	$[y, 0, \frac{1}{2} - z]$	[155, 174]
84	$[-y, 0, \frac{1}{2} - z]$	[156, 175]
85	$[0, z, y + \frac{1}{2}]$	[157, 182]
86	$[0, -z, \frac{1}{2} - y]$	[158, 181]
87	$[z, -y, \frac{1}{2}]$	[159, 173]
88	$[-z, -y, \frac{1}{2}]$	[160, 172]
89	$[z + \frac{1}{2}, \frac{1}{2}, y]$	[161, 192]
90	$[y + \frac{1}{2}, z + \frac{1}{2}, 0]$	[162, 189]
91	$[\frac{1}{2} - y, z + \frac{1}{2}, 0]$	[163, 191]
92	$[\frac{1}{2} - z, \frac{1}{2}, y]$	[164, 190]
93	$[\frac{1}{2} - y, \frac{1}{2} - z, 0]$	[165, 186]

continued ...

Table 9

No.	position	mapping
94	$[z + \frac{1}{2}, \frac{1}{2}, -y]$	[166, 188]
95	$[y + \frac{1}{2}, \frac{1}{2} - z, 0]$	[167, 187]
96	$[\frac{1}{2} - z, \frac{1}{2}, -y]$	[168, 185]

Table 10: Wyckoff site: 192j, site symmetry: 1

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

continued ...

Table 10

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

continued ...

Table 10

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

continued ...

Table 10

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

continued ...

Table 10

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