

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: $m\bar{3}$.

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: $\bar{4}m2$

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	$[\frac{1}{2}, \frac{1}{2}, -x]$	[163, 167, 186, 189]
48	$[\frac{1}{2}, \frac{1}{2} - x, 0]$	[164, 166, 185, 192]

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

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

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: $\dots 2$

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: **m** . .

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]