

MSG No. 219.88 $F\bar{S}43c$ [Type IV, cubic]

Table 1: Wyckoff site: 8a, site symmetry: $-4'3m'$

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

Table 2: Wyckoff site: 8b, site symmetry: $-4'3m'$

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

Table 3: Wyckoff site: 24c, site symmetry: $-42' .m'$

No.	position	mapping
1	$[0, \frac{1}{4}, \frac{1}{4}]$	[1, 26, 62, 85, 99, 124, 165, 190]
2	$[0, \frac{3}{4}, \frac{3}{4}]$	[2, 25, 61, 86, 100, 123, 166, 189]
3	$[0, \frac{1}{4}, \frac{3}{4}]$	[3, 28, 69, 94, 97, 122, 158, 181]
4	$[0, \frac{3}{4}, \frac{1}{4}]$	[4, 27, 70, 93, 98, 121, 157, 182]
5	$[\frac{1}{4}, 0, \frac{1}{4}]$	[5, 43, 60, 89, 106, 138, 152, 188]
6	$[\frac{1}{4}, \frac{1}{4}, 0]$	[6, 47, 64, 81, 111, 131, 151, 192]
7	$[\frac{3}{4}, \frac{1}{4}, 0]$	[7, 48, 63, 83, 112, 129, 150, 191]
8	$[\frac{3}{4}, 0, \frac{1}{4}]$	[8, 44, 58, 90, 108, 137, 149, 187]
9	$[\frac{3}{4}, \frac{3}{4}, 0]$	[9, 40, 71, 78, 120, 127, 155, 183]
10	$[\frac{1}{4}, 0, \frac{3}{4}]$	[10, 42, 56, 92, 101, 139, 156, 185]
11	$[\frac{1}{4}, \frac{3}{4}, 0]$	[11, 39, 72, 79, 119, 126, 153, 184]
12	$[\frac{3}{4}, 0, \frac{3}{4}]$	[12, 41, 53, 91, 104, 140, 154, 186]
13	$[\frac{1}{2}, \frac{3}{4}, \frac{1}{4}]$	[13, 38, 50, 73, 118, 141, 148, 171]
14	$[\frac{1}{2}, \frac{1}{4}, \frac{3}{4}]$	[14, 37, 49, 74, 117, 142, 147, 172]
15	$[\frac{1}{4}, \frac{1}{4}, \frac{1}{2}]$	[15, 35, 55, 96, 102, 143, 160, 177]

continued ...

Table 3

No.	position	mapping
16	$[\frac{3}{4}, \frac{1}{4}, \frac{1}{2}]$	[16, 33, 54, 95, 103, 144, 159, 179]
17	$[\frac{3}{4}, \frac{1}{2}, \frac{1}{4}]$	[17, 36, 67, 77, 116, 128, 162, 178]
18	$[\frac{1}{4}, \frac{1}{2}, \frac{1}{4}]$	[18, 34, 68, 80, 115, 125, 161, 180]
19	$[\frac{1}{4}, \frac{1}{2}, \frac{3}{4}]$	[19, 29, 65, 84, 114, 130, 164, 176]
20	$[\frac{3}{4}, \frac{1}{2}, \frac{3}{4}]$	[20, 32, 66, 82, 113, 132, 163, 173]
21	$[\frac{1}{2}, \frac{1}{4}, \frac{1}{4}]$	[21, 46, 51, 76, 110, 133, 145, 170]
22	$[\frac{1}{2}, \frac{3}{4}, \frac{3}{4}]$	[22, 45, 52, 75, 109, 134, 146, 169]
23	$[\frac{1}{4}, \frac{3}{4}, \frac{1}{2}]$	[23, 30, 57, 88, 107, 135, 168, 175]
24	$[\frac{3}{4}, \frac{3}{4}, \frac{1}{2}]$	[24, 31, 59, 87, 105, 136, 167, 174]

Table 4: Wyckoff site: 24d, site symmetry: $-42' .m'$

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

Table 5: Wyckoff site: $32\mathbf{e}$, site symmetry: $.3\mathbf{m}'$

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

Table 6: Wyckoff site: $48\mathbf{f}$, site symmetry: $2.\mathbf{m}'\mathbf{m}'$

No.	position	mapping
1	$[x, 0, 0]$	$[1, 2, 189, 190]$
2	$[-x, 0, 0]$	$[3, 4, 181, 182]$
3	$[0, x, 0]$	$[5, 12, 186, 188]$
4	$[0, 0, x]$	$[6, 9, 183, 192]$
5	$[0, 0, -x]$	$[7, 11, 184, 191]$
6	$[0, -x, 0]$	$[8, 10, 185, 187]$
7	$[\frac{1}{2} - x, \frac{1}{2}, \frac{1}{2}]$	$[13, 14, 171, 172]$

continued ...

Table 6

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

Table 7: Wyckoff site: 48g, site symmetry: $2.m'm'$

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

continued ...

Table 7

No.	position	mapping
47	$[x, \frac{1}{4}, \frac{3}{4}]$	[69,94,97,122]
48	$[x, \frac{3}{4}, \frac{1}{4}]$	[70,93,98,121]

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

No.	position	mapping
1	$[x, \frac{1}{4}, 0]$	[1,122]
2	$[x, \frac{3}{4}, 0]$	[2,121]
3	$[-x, \frac{1}{4}, 0]$	[3,124]
4	$[-x, \frac{3}{4}, 0]$	[4,123]
5	$[0, x, \frac{1}{4}]$	[5,108]
6	$[\frac{1}{4}, 0, x]$	[6,153]
7	$[\frac{3}{4}, 0, -x]$	[7,155]
8	$[0, -x, \frac{1}{4}]$	[8,106]
9	$[\frac{3}{4}, 0, x]$	[9,150]
10	$[0, -x, \frac{3}{4}]$	[10,104]
11	$[\frac{1}{4}, 0, -x]$	[11,151]
12	$[0, x, \frac{3}{4}]$	[12,101]
13	$[\frac{1}{2} - x, \frac{1}{2}, \frac{1}{4}]$	[13,110]
14	$[\frac{1}{2} - x, \frac{1}{2}, \frac{3}{4}]$	[14,109]
15	$[\frac{1}{2}, \frac{1}{4}, x + \frac{1}{2}]$	[15,144]
16	$[\frac{1}{2}, \frac{1}{4}, \frac{1}{2} - x]$	[16,143]
17	$[\frac{3}{4}, \frac{1}{2} - x, \frac{1}{2}]$	[17,163]
18	$[\frac{1}{4}, x + \frac{1}{2}, \frac{1}{2}]$	[18,164]
19	$[\frac{1}{4}, \frac{1}{2} - x, \frac{1}{2}]$	[19,161]
20	$[\frac{3}{4}, x + \frac{1}{2}, \frac{1}{2}]$	[20,162]
21	$[x + \frac{1}{2}, \frac{1}{2}, \frac{1}{4}]$	[21,118]
22	$[x + \frac{1}{2}, \frac{1}{2}, \frac{3}{4}]$	[22,117]
23	$[\frac{1}{2}, \frac{3}{4}, \frac{1}{2} - x]$	[23,136]
24	$[\frac{1}{2}, \frac{3}{4}, x + \frac{1}{2}]$	[24,135]
25	$[x, \frac{3}{4}, \frac{1}{2}]$	[25,98]
26	$[x, \frac{1}{4}, \frac{1}{2}]$	[26,97]
27	$[-x, \frac{3}{4}, \frac{1}{2}]$	[27,100]
28	$[-x, \frac{1}{4}, \frac{1}{2}]$	[28,99]
29	$[0, x + \frac{1}{2}, \frac{3}{4}]$	[29,132]
30	$[\frac{1}{4}, \frac{1}{2}, x + \frac{1}{2}]$	[30,177]
31	$[\frac{3}{4}, \frac{1}{2}, \frac{1}{2} - x]$	[31,179]
32	$[0, \frac{1}{2} - x, \frac{3}{4}]$	[32,130]
33	$[\frac{3}{4}, \frac{1}{2}, x + \frac{1}{2}]$	[33,174]
34	$[0, \frac{1}{2} - x, \frac{1}{4}]$	[34,128]
35	$[\frac{1}{4}, \frac{1}{2}, \frac{1}{2} - x]$	[35,175]
36	$[0, x + \frac{1}{2}, \frac{1}{4}]$	[36,125]
37	$[\frac{1}{2} - x, 0, \frac{3}{4}]$	[37,134]
38	$[\frac{1}{2} - x, 0, \frac{1}{4}]$	[38,133]

continued ...

Table 8

No.	position	mapping
39	$[\frac{1}{2}, \frac{3}{4}, x]$	[39,120]
40	$[\frac{1}{2}, \frac{3}{4}, -x]$	[40,119]
41	$[\frac{3}{4}, -x, 0]$	[41,187]
42	$[\frac{1}{4}, x, 0]$	[42,188]
43	$[\frac{1}{4}, -x, 0]$	[43,185]
44	$[\frac{3}{4}, x, 0]$	[44,186]
45	$[x + \frac{1}{2}, 0, \frac{3}{4}]$	[45,142]
46	$[x + \frac{1}{2}, 0, \frac{1}{4}]$	[46,141]
47	$[\frac{1}{2}, \frac{1}{4}, -x]$	[47,112]
48	$[\frac{1}{2}, \frac{1}{4}, x]$	[48,111]
49	$[x + \frac{1}{2}, \frac{1}{4}, \frac{1}{2}]$	[49,170]
50	$[x + \frac{1}{2}, \frac{3}{4}, \frac{1}{2}]$	[50,169]
51	$[\frac{1}{2} - x, \frac{1}{4}, \frac{1}{2}]$	[51,172]
52	$[\frac{1}{2} - x, \frac{3}{4}, \frac{1}{2}]$	[52,171]
53	$[\frac{1}{2}, x, \frac{3}{4}]$	[53,156]
54	$[\frac{3}{4}, 0, x + \frac{1}{2}]$	[54,105]
55	$[\frac{1}{4}, 0, \frac{1}{2} - x]$	[55,107]
56	$[\frac{1}{2}, -x, \frac{3}{4}]$	[56,154]
57	$[\frac{1}{4}, 0, x + \frac{1}{2}]$	[57,102]
58	$[\frac{1}{2}, -x, \frac{1}{4}]$	[58,152]
59	$[\frac{3}{4}, 0, \frac{1}{2} - x]$	[59,103]
60	$[\frac{1}{2}, x, \frac{1}{4}]$	[60,149]
61	$[-x, \frac{1}{2}, \frac{3}{4}]$	[61,158]
62	$[-x, \frac{1}{2}, \frac{1}{4}]$	[62,157]
63	$[0, \frac{1}{4}, x]$	[63,192]
64	$[0, \frac{1}{4}, -x]$	[64,191]
65	$[\frac{1}{4}, \frac{1}{2} - x, 0]$	[65,115]
66	$[\frac{3}{4}, x + \frac{1}{2}, 0]$	[66,116]
67	$[\frac{3}{4}, \frac{1}{2} - x, 0]$	[67,113]
68	$[\frac{1}{4}, x + \frac{1}{2}, 0]$	[68,114]
69	$[x, \frac{1}{2}, \frac{3}{4}]$	[69,166]
70	$[x, \frac{1}{2}, \frac{1}{4}]$	[70,165]
71	$[0, \frac{3}{4}, -x]$	[71,184]
72	$[0, \frac{3}{4}, x]$	[72,183]
73	$[x + \frac{1}{2}, \frac{3}{4}, 0]$	[73,146]
74	$[x + \frac{1}{2}, \frac{1}{4}, 0]$	[74,145]
75	$[\frac{1}{2} - x, \frac{3}{4}, 0]$	[75,148]
76	$[\frac{1}{2} - x, \frac{1}{4}, 0]$	[76,147]
77	$[\frac{1}{2}, x + \frac{1}{2}, \frac{1}{4}]$	[77,180]
78	$[\frac{3}{4}, \frac{1}{2}, x]$	[78,129]
79	$[\frac{1}{4}, \frac{1}{2}, -x]$	[79,131]
80	$[\frac{1}{2}, \frac{1}{2} - x, \frac{1}{4}]$	[80,178]
81	$[\frac{1}{4}, \frac{1}{2}, x]$	[81,126]
82	$[\frac{1}{2}, \frac{1}{2} - x, \frac{3}{4}]$	[82,176]
83	$[\frac{3}{4}, \frac{1}{2}, -x]$	[83,127]
84	$[\frac{1}{2}, x + \frac{1}{2}, \frac{3}{4}]$	[84,173]
85	$[-x, 0, \frac{1}{4}]$	[85,182]

continued ...

Table 8

No.	position	mapping
86	$[-x, 0, \frac{3}{4}]$	[86,181]
87	$[0, \frac{3}{4}, x + \frac{1}{2}]$	[87,168]
88	$[0, \frac{3}{4}, \frac{1}{2} - x]$	[88,167]
89	$[\frac{1}{4}, -x, \frac{1}{2}]$	[89,139]
90	$[\frac{3}{4}, x, \frac{1}{2}]$	[90,140]
91	$[\frac{3}{4}, -x, \frac{1}{2}]$	[91,137]
92	$[\frac{1}{4}, x, \frac{1}{2}]$	[92,138]
93	$[x, 0, \frac{1}{4}]$	[93,190]
94	$[x, 0, \frac{3}{4}]$	[94,189]
95	$[0, \frac{1}{4}, \frac{1}{2} - x]$	[95,160]
96	$[0, \frac{1}{4}, x + \frac{1}{2}]$	[96,159]

Table 9: Wyckoff site: 96i, site symmetry: $\dots m'$

No.	position	mapping
1	$[x, x, z]$	[1,188]
2	$[x, -x, -z]$	[2,185]
3	$[-x, x, -z]$	[3,186]
4	$[-x, -x, z]$	[4,187]
5	$[z, x, x]$	[5,192]
6	$[x, z, x]$	[6,190]
7	$[-x, z, -x]$	[7,181]
8	$[-z, -x, x]$	[8,183]
9	$[-x, -z, x]$	[9,182]
10	$[z, -x, -x]$	[10,184]
11	$[x, -z, -x]$	[11,189]
12	$[-z, x, -x]$	[12,191]
13	$[\frac{1}{2} - x, z + \frac{1}{2}, \frac{1}{2} - x]$	[13,175]
14	$[\frac{1}{2} - x, \frac{1}{2} - z, x + \frac{1}{2}]$	[14,177]
15	$[\frac{1}{2} - z, \frac{1}{2} - x, x + \frac{1}{2}]$	[15,176]
16	$[z + \frac{1}{2}, \frac{1}{2} - x, \frac{1}{2} - x]$	[16,178]
17	$[x + \frac{1}{2}, \frac{1}{2} - x, \frac{1}{2} - z]$	[17,170]
18	$[\frac{1}{2} - x, x + \frac{1}{2}, \frac{1}{2} - z]$	[18,171]
19	$[\frac{1}{2} - x, \frac{1}{2} - x, z + \frac{1}{2}]$	[19,172]
20	$[x + \frac{1}{2}, x + \frac{1}{2}, z + \frac{1}{2}]$	[20,169]
21	$[x + \frac{1}{2}, \frac{1}{2} - z, \frac{1}{2} - x]$	[21,179]
22	$[x + \frac{1}{2}, z + \frac{1}{2}, x + \frac{1}{2}]$	[22,174]
23	$[\frac{1}{2} - z, x + \frac{1}{2}, \frac{1}{2} - x]$	[23,180]
24	$[z + \frac{1}{2}, x + \frac{1}{2}, x + \frac{1}{2}]$	[24,173]
25	$[x, x + \frac{1}{2}, z + \frac{1}{2}]$	[25,164]
26	$[x, \frac{1}{2} - x, \frac{1}{2} - z]$	[26,161]
27	$[-x, x + \frac{1}{2}, \frac{1}{2} - z]$	[27,162]
28	$[-x, \frac{1}{2} - x, z + \frac{1}{2}]$	[28,163]
29	$[z, x + \frac{1}{2}, x + \frac{1}{2}]$	[29,168]

continued ...

Table 9

No.	position	mapping
30	$[x, z + \frac{1}{2}, x + \frac{1}{2}]$	[30, 166]
31	$[-x, z + \frac{1}{2}, \frac{1}{2} - x]$	[31, 157]
32	$[-z, \frac{1}{2} - x, x + \frac{1}{2}]$	[32, 159]
33	$[-x, \frac{1}{2} - z, x + \frac{1}{2}]$	[33, 158]
34	$[z, \frac{1}{2} - x, \frac{1}{2} - x]$	[34, 160]
35	$[x, \frac{1}{2} - z, \frac{1}{2} - x]$	[35, 165]
36	$[-z, x + \frac{1}{2}, \frac{1}{2} - x]$	[36, 167]
37	$[\frac{1}{2} - x, z, -x]$	[37, 151]
38	$[\frac{1}{2} - x, -z, x]$	[38, 153]
39	$[\frac{1}{2} - z, -x, x]$	[39, 152]
40	$[z + \frac{1}{2}, -x, -x]$	[40, 154]
41	$[x + \frac{1}{2}, -x, -z]$	[41, 146]
42	$[\frac{1}{2} - x, x, -z]$	[42, 147]
43	$[\frac{1}{2} - x, -x, z]$	[43, 148]
44	$[x + \frac{1}{2}, x, z]$	[44, 145]
45	$[x + \frac{1}{2}, -z, -x]$	[45, 155]
46	$[x + \frac{1}{2}, z, x]$	[46, 150]
47	$[\frac{1}{2} - z, x, -x]$	[47, 156]
48	$[z + \frac{1}{2}, x, x]$	[48, 149]
49	$[x + \frac{1}{2}, x, z + \frac{1}{2}]$	[49, 140]
50	$[x + \frac{1}{2}, -x, \frac{1}{2} - z]$	[50, 137]
51	$[\frac{1}{2} - x, x, \frac{1}{2} - z]$	[51, 138]
52	$[\frac{1}{2} - x, -x, z + \frac{1}{2}]$	[52, 139]
53	$[z + \frac{1}{2}, x, x + \frac{1}{2}]$	[53, 144]
54	$[x + \frac{1}{2}, z, x + \frac{1}{2}]$	[54, 142]
55	$[\frac{1}{2} - x, z, \frac{1}{2} - x]$	[55, 133]
56	$[\frac{1}{2} - z, -x, x + \frac{1}{2}]$	[56, 135]
57	$[\frac{1}{2} - x, -z, x + \frac{1}{2}]$	[57, 134]
58	$[z + \frac{1}{2}, -x, \frac{1}{2} - x]$	[58, 136]
59	$[x + \frac{1}{2}, -z, \frac{1}{2} - x]$	[59, 141]
60	$[\frac{1}{2} - z, x, \frac{1}{2} - x]$	[60, 143]
61	$[-x, z + \frac{1}{2}, -x]$	[61, 127]
62	$[-x, \frac{1}{2} - z, x]$	[62, 129]
63	$[-z, \frac{1}{2} - x, x]$	[63, 128]
64	$[z, \frac{1}{2} - x, -x]$	[64, 130]
65	$[x, \frac{1}{2} - x, -z]$	[65, 122]
66	$[-x, x + \frac{1}{2}, -z]$	[66, 123]
67	$[-x, \frac{1}{2} - x, z]$	[67, 124]
68	$[x, x + \frac{1}{2}, z]$	[68, 121]
69	$[x, \frac{1}{2} - z, -x]$	[69, 131]
70	$[x, z + \frac{1}{2}, x]$	[70, 126]
71	$[-z, x + \frac{1}{2}, -x]$	[71, 132]
72	$[z, x + \frac{1}{2}, x]$	[72, 125]
73	$[x + \frac{1}{2}, x + \frac{1}{2}, z]$	[73, 116]
74	$[x + \frac{1}{2}, \frac{1}{2} - x, -z]$	[74, 113]
75	$[\frac{1}{2} - x, x + \frac{1}{2}, -z]$	[75, 114]
76	$[\frac{1}{2} - x, \frac{1}{2} - x, z]$	[76, 115]

continued ...

Table 9

No.	position	mapping
77	$[z + \frac{1}{2}, x + \frac{1}{2}, x]$	[77,120]
78	$[x + \frac{1}{2}, z + \frac{1}{2}, x]$	[78,118]
79	$[\frac{1}{2} - x, z + \frac{1}{2}, -x]$	[79,109]
80	$[\frac{1}{2} - z, \frac{1}{2} - x, x]$	[80,111]
81	$[\frac{1}{2} - x, \frac{1}{2} - z, x]$	[81,110]
82	$[z + \frac{1}{2}, \frac{1}{2} - x, -x]$	[82,112]
83	$[x + \frac{1}{2}, \frac{1}{2} - z, -x]$	[83,117]
84	$[\frac{1}{2} - z, x + \frac{1}{2}, -x]$	[84,119]
85	$[-x, z, \frac{1}{2} - x]$	[85,103]
86	$[-x, -z, x + \frac{1}{2}]$	[86,105]
87	$[-z, -x, x + \frac{1}{2}]$	[87,104]
88	$[z, -x, \frac{1}{2} - x]$	[88,106]
89	$[x, -x, \frac{1}{2} - z]$	[89,98]
90	$[-x, x, \frac{1}{2} - z]$	[90,99]
91	$[-x, -x, z + \frac{1}{2}]$	[91,100]
92	$[x, x, z + \frac{1}{2}]$	[92,97]
93	$[x, -z, \frac{1}{2} - x]$	[93,107]
94	$[x, z, x + \frac{1}{2}]$	[94,102]
95	$[-z, x, \frac{1}{2} - x]$	[95,108]
96	$[z, x, x + \frac{1}{2}]$	[96,101]

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	$[\frac{1}{2} - x, z + \frac{1}{2}, \frac{1}{2} - y]$	[13]
14	$[\frac{1}{2} - x, \frac{1}{2} - z, y + \frac{1}{2}]$	[14]
15	$[\frac{1}{2} - z, \frac{1}{2} - y, x + \frac{1}{2}]$	[15]
16	$[z + \frac{1}{2}, \frac{1}{2} - y, \frac{1}{2} - x]$	[16]
17	$[y + \frac{1}{2}, \frac{1}{2} - x, \frac{1}{2} - z]$	[17]
18	$[\frac{1}{2} - y, x + \frac{1}{2}, \frac{1}{2} - z]$	[18]
19	$[\frac{1}{2} - y, \frac{1}{2} - x, z + \frac{1}{2}]$	[19]
20	$[y + \frac{1}{2}, x + \frac{1}{2}, z + \frac{1}{2}]$	[20]

continued ...

Table 10

No.	position	mapping
21	$[x + \frac{1}{2}, \frac{1}{2} - z, \frac{1}{2} - y]$	[21]
22	$[x + \frac{1}{2}, z + \frac{1}{2}, y + \frac{1}{2}]$	[22]
23	$[\frac{1}{2} - z, y + \frac{1}{2}, \frac{1}{2} - x]$	[23]
24	$[z + \frac{1}{2}, y + \frac{1}{2}, x + \frac{1}{2}]$	[24]
25	$[x, y + \frac{1}{2}, z + \frac{1}{2}]$	[25]
26	$[x, \frac{1}{2} - y, \frac{1}{2} - z]$	[26]
27	$[-x, y + \frac{1}{2}, \frac{1}{2} - z]$	[27]
28	$[-x, \frac{1}{2} - y, z + \frac{1}{2}]$	[28]
29	$[z, x + \frac{1}{2}, y + \frac{1}{2}]$	[29]
30	$[y, z + \frac{1}{2}, x + \frac{1}{2}]$	[30]
31	$[-y, z + \frac{1}{2}, \frac{1}{2} - x]$	[31]
32	$[-z, \frac{1}{2} - x, y + \frac{1}{2}]$	[32]
33	$[-y, \frac{1}{2} - z, x + \frac{1}{2}]$	[33]
34	$[z, \frac{1}{2} - x, \frac{1}{2} - y]$	[34]
35	$[y, \frac{1}{2} - z, \frac{1}{2} - x]$	[35]
36	$[-z, x + \frac{1}{2}, \frac{1}{2} - y]$	[36]
37	$[\frac{1}{2} - x, z, -y]$	[37]
38	$[\frac{1}{2} - x, -z, y]$	[38]
39	$[\frac{1}{2} - z, -y, x]$	[39]
40	$[z + \frac{1}{2}, -y, -x]$	[40]
41	$[y + \frac{1}{2}, -x, -z]$	[41]
42	$[\frac{1}{2} - y, x, -z]$	[42]
43	$[\frac{1}{2} - y, -x, z]$	[43]
44	$[y + \frac{1}{2}, x, z]$	[44]
45	$[x + \frac{1}{2}, -z, -y]$	[45]
46	$[x + \frac{1}{2}, z, y]$	[46]
47	$[\frac{1}{2} - z, y, -x]$	[47]
48	$[z + \frac{1}{2}, y, x]$	[48]
49	$[x + \frac{1}{2}, y, z + \frac{1}{2}]$	[49]
50	$[x + \frac{1}{2}, -y, \frac{1}{2} - z]$	[50]
51	$[\frac{1}{2} - x, y, \frac{1}{2} - z]$	[51]
52	$[\frac{1}{2} - x, -y, z + \frac{1}{2}]$	[52]
53	$[z + \frac{1}{2}, x, y + \frac{1}{2}]$	[53]
54	$[y + \frac{1}{2}, z, x + \frac{1}{2}]$	[54]
55	$[\frac{1}{2} - y, z, \frac{1}{2} - x]$	[55]
56	$[\frac{1}{2} - z, -x, y + \frac{1}{2}]$	[56]
57	$[\frac{1}{2} - y, -z, x + \frac{1}{2}]$	[57]
58	$[z + \frac{1}{2}, -x, \frac{1}{2} - y]$	[58]
59	$[y + \frac{1}{2}, -z, \frac{1}{2} - x]$	[59]
60	$[\frac{1}{2} - z, x, \frac{1}{2} - y]$	[60]
61	$[-x, z + \frac{1}{2}, -y]$	[61]
62	$[-x, \frac{1}{2} - z, y]$	[62]
63	$[-z, \frac{1}{2} - y, x]$	[63]
64	$[z, \frac{1}{2} - y, -x]$	[64]
65	$[y, \frac{1}{2} - x, -z]$	[65]
66	$[-y, x + \frac{1}{2}, -z]$	[66]
67	$[-y, \frac{1}{2} - x, z]$	[67]

continued ...

Table 10

No.	position	mapping
68	$[y, x + \frac{1}{2}, z]$	[68]
69	$[x, \frac{1}{2} - z, -y]$	[69]
70	$[x, z + \frac{1}{2}, y]$	[70]
71	$[-z, y + \frac{1}{2}, -x]$	[71]
72	$[z, y + \frac{1}{2}, x]$	[72]
73	$[x + \frac{1}{2}, y + \frac{1}{2}, z]$	[73]
74	$[x + \frac{1}{2}, \frac{1}{2} - y, -z]$	[74]
75	$[\frac{1}{2} - x, y + \frac{1}{2}, -z]$	[75]
76	$[\frac{1}{2} - x, \frac{1}{2} - y, z]$	[76]
77	$[z + \frac{1}{2}, x + \frac{1}{2}, y]$	[77]
78	$[y + \frac{1}{2}, z + \frac{1}{2}, x]$	[78]
79	$[\frac{1}{2} - y, z + \frac{1}{2}, -x]$	[79]
80	$[\frac{1}{2} - z, \frac{1}{2} - x, y]$	[80]
81	$[\frac{1}{2} - y, \frac{1}{2} - z, x]$	[81]
82	$[z + \frac{1}{2}, \frac{1}{2} - x, -y]$	[82]
83	$[y + \frac{1}{2}, \frac{1}{2} - z, -x]$	[83]
84	$[\frac{1}{2} - z, x + \frac{1}{2}, -y]$	[84]
85	$[-x, z, \frac{1}{2} - y]$	[85]
86	$[-x, -z, y + \frac{1}{2}]$	[86]
87	$[-z, -y, x + \frac{1}{2}]$	[87]
88	$[z, -y, \frac{1}{2} - x]$	[88]
89	$[y, -x, \frac{1}{2} - z]$	[89]
90	$[-y, x, \frac{1}{2} - z]$	[90]
91	$[-y, -x, z + \frac{1}{2}]$	[91]
92	$[y, x, z + \frac{1}{2}]$	[92]
93	$[x, -z, \frac{1}{2} - y]$	[93]
94	$[x, z, y + \frac{1}{2}]$	[94]
95	$[-z, y, \frac{1}{2} - x]$	[95]
96	$[z, y, x + \frac{1}{2}]$	[96]
97	$[x, y, z + \frac{1}{2}]$	[97]
98	$[x, -y, \frac{1}{2} - z]$	[98]
99	$[-x, y, \frac{1}{2} - z]$	[99]
100	$[-x, -y, z + \frac{1}{2}]$	[100]
101	$[z, x, y + \frac{1}{2}]$	[101]
102	$[y, z, x + \frac{1}{2}]$	[102]
103	$[-y, z, \frac{1}{2} - x]$	[103]
104	$[-z, -x, y + \frac{1}{2}]$	[104]
105	$[-y, -z, x + \frac{1}{2}]$	[105]
106	$[z, -x, \frac{1}{2} - y]$	[106]
107	$[y, -z, \frac{1}{2} - x]$	[107]
108	$[-z, x, \frac{1}{2} - y]$	[108]
109	$[\frac{1}{2} - x, z + \frac{1}{2}, -y]$	[109]
110	$[\frac{1}{2} - x, \frac{1}{2} - z, y]$	[110]
111	$[\frac{1}{2} - z, \frac{1}{2} - y, x]$	[111]
112	$[z + \frac{1}{2}, \frac{1}{2} - y, -x]$	[112]
113	$[y + \frac{1}{2}, \frac{1}{2} - x, -z]$	[113]
114	$[\frac{1}{2} - y, x + \frac{1}{2}, -z]$	[114]

continued ...

Table 10

No.	position	mapping
115	$[\frac{1}{2} - y, \frac{1}{2} - x, z]$	[115]
116	$[y + \frac{1}{2}, x + \frac{1}{2}, z]$	[116]
117	$[x + \frac{1}{2}, \frac{1}{2} - z, -y]$	[117]
118	$[x + \frac{1}{2}, z + \frac{1}{2}, y]$	[118]
119	$[\frac{1}{2} - z, y + \frac{1}{2}, -x]$	[119]
120	$[z + \frac{1}{2}, y + \frac{1}{2}, x]$	[120]
121	$[x, y + \frac{1}{2}, z]$	[121]
122	$[x, \frac{1}{2} - y, -z]$	[122]
123	$[-x, y + \frac{1}{2}, -z]$	[123]
124	$[-x, \frac{1}{2} - y, z]$	[124]
125	$[z, x + \frac{1}{2}, y]$	[125]
126	$[y, z + \frac{1}{2}, x]$	[126]
127	$[-y, z + \frac{1}{2}, -x]$	[127]
128	$[-z, \frac{1}{2} - x, y]$	[128]
129	$[-y, \frac{1}{2} - z, x]$	[129]
130	$[z, \frac{1}{2} - x, -y]$	[130]
131	$[y, \frac{1}{2} - z, -x]$	[131]
132	$[-z, x + \frac{1}{2}, -y]$	[132]
133	$[\frac{1}{2} - x, z, \frac{1}{2} - y]$	[133]
134	$[\frac{1}{2} - x, -z, y + \frac{1}{2}]$	[134]
135	$[\frac{1}{2} - z, -y, x + \frac{1}{2}]$	[135]
136	$[z + \frac{1}{2}, -y, \frac{1}{2} - x]$	[136]
137	$[y + \frac{1}{2}, -x, \frac{1}{2} - z]$	[137]
138	$[\frac{1}{2} - y, x, \frac{1}{2} - z]$	[138]
139	$[\frac{1}{2} - y, -x, z + \frac{1}{2}]$	[139]
140	$[y + \frac{1}{2}, x, z + \frac{1}{2}]$	[140]
141	$[x + \frac{1}{2}, -z, \frac{1}{2} - y]$	[141]
142	$[x + \frac{1}{2}, z, y + \frac{1}{2}]$	[142]
143	$[\frac{1}{2} - z, y, \frac{1}{2} - x]$	[143]
144	$[z + \frac{1}{2}, y, x + \frac{1}{2}]$	[144]
145	$[x + \frac{1}{2}, y, z]$	[145]
146	$[x + \frac{1}{2}, -y, -z]$	[146]
147	$[\frac{1}{2} - x, y, -z]$	[147]
148	$[\frac{1}{2} - x, -y, z]$	[148]
149	$[z + \frac{1}{2}, x, y]$	[149]
150	$[y + \frac{1}{2}, z, x]$	[150]
151	$[\frac{1}{2} - y, z, -x]$	[151]
152	$[\frac{1}{2} - z, -x, y]$	[152]
153	$[\frac{1}{2} - y, -z, x]$	[153]
154	$[z + \frac{1}{2}, -x, -y]$	[154]
155	$[y + \frac{1}{2}, -z, -x]$	[155]
156	$[\frac{1}{2} - z, x, -y]$	[156]
157	$[-x, z + \frac{1}{2}, \frac{1}{2} - y]$	[157]
158	$[-x, \frac{1}{2} - z, y + \frac{1}{2}]$	[158]
159	$[-z, \frac{1}{2} - y, x + \frac{1}{2}]$	[159]
160	$[z, \frac{1}{2} - y, \frac{1}{2} - x]$	[160]
161	$[y, \frac{1}{2} - x, \frac{1}{2} - z]$	[161]

continued ...

Table 10

No.	position	mapping
162	$[-y, x + \frac{1}{2}, \frac{1}{2} - z]$	[162]
163	$[-y, \frac{1}{2} - x, z + \frac{1}{2}]$	[163]
164	$[y, x + \frac{1}{2}, z + \frac{1}{2}]$	[164]
165	$[x, \frac{1}{2} - z, \frac{1}{2} - y]$	[165]
166	$[x, z + \frac{1}{2}, y + \frac{1}{2}]$	[166]
167	$[-z, y + \frac{1}{2}, \frac{1}{2} - x]$	[167]
168	$[z, y + \frac{1}{2}, x + \frac{1}{2}]$	[168]
169	$[x + \frac{1}{2}, y + \frac{1}{2}, z + \frac{1}{2}]$	[169]
170	$[x + \frac{1}{2}, \frac{1}{2} - y, \frac{1}{2} - z]$	[170]
171	$[\frac{1}{2} - x, y + \frac{1}{2}, \frac{1}{2} - z]$	[171]
172	$[\frac{1}{2} - x, \frac{1}{2} - y, z + \frac{1}{2}]$	[172]
173	$[z + \frac{1}{2}, x + \frac{1}{2}, y + \frac{1}{2}]$	[173]
174	$[y + \frac{1}{2}, z + \frac{1}{2}, x + \frac{1}{2}]$	[174]
175	$[\frac{1}{2} - y, z + \frac{1}{2}, \frac{1}{2} - x]$	[175]
176	$[\frac{1}{2} - z, \frac{1}{2} - x, y + \frac{1}{2}]$	[176]
177	$[\frac{1}{2} - y, \frac{1}{2} - z, x + \frac{1}{2}]$	[177]
178	$[z + \frac{1}{2}, \frac{1}{2} - x, \frac{1}{2} - y]$	[178]
179	$[y + \frac{1}{2}, \frac{1}{2} - z, \frac{1}{2} - x]$	[179]
180	$[\frac{1}{2} - z, x + \frac{1}{2}, \frac{1}{2} - y]$	[180]
181	$[-x, z, -y]$	[181]
182	$[-x, -z, y]$	[182]
183	$[-z, -y, x]$	[183]
184	$[z, -y, -x]$	[184]
185	$[y, -x, -z]$	[185]
186	$[-y, x, -z]$	[186]
187	$[-y, -x, z]$	[187]
188	$[y, x, z]$	[188]
189	$[x, -z, -y]$	[189]
190	$[x, z, y]$	[190]
191	$[-z, y, -x]$	[191]
192	$[z, y, x]$	[192]