

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

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

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

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

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

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

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

continued ...

Table 3

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

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

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

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

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

*continued ...*

Table 5

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

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

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

*continued ...*

Table 6

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

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

No.	position	mapping
1	$[x, x, x]$	[1, 5, 6]
2	$[x, -x, -x]$	[2, 10, 11]
3	$[-x, x, -x]$	[3, 7, 12]
4	$[-x, -x, x]$	[4, 8, 9]
5	$[-x, -x, -x]$	[13, 17, 18]
6	$[-x, x, x]$	[14, 22, 23]
7	$[x, -x, x]$	[15, 19, 24]
8	$[x, x, -x]$	[16, 20, 21]
9	$[x + \frac{1}{2}, \frac{1}{2} - x, x + \frac{1}{2}]$	[25, 30, 35]
10	$[x + \frac{1}{2}, x + \frac{1}{2}, \frac{1}{2} - x]$	[26, 27, 31]
11	$[\frac{1}{2} - x, x + \frac{1}{2}, x + \frac{1}{2}]$	[28, 29, 33]
12	$[\frac{1}{2} - x, \frac{1}{2} - x, \frac{1}{2} - x]$	[32, 34, 36]
13	$[\frac{1}{2} - x, x + \frac{1}{2}, \frac{1}{2} - x]$	[37, 42, 47]
14	$[\frac{1}{2} - x, \frac{1}{2} - x, x + \frac{1}{2}]$	[38, 39, 43]
15	$[x + \frac{1}{2}, \frac{1}{2} - x, \frac{1}{2} - x]$	[40, 41, 45]
16	$[x + \frac{1}{2}, x + \frac{1}{2}, x + \frac{1}{2}]$	[44, 46, 48]
17	$[x, x + \frac{1}{2}, x + \frac{1}{2}]$	[49, 53, 54]
18	$[x, \frac{1}{2} - x, \frac{1}{2} - x]$	[50, 58, 59]
19	$[-x, x + \frac{1}{2}, \frac{1}{2} - x]$	[51, 55, 60]
20	$[-x, \frac{1}{2} - x, x + \frac{1}{2}]$	[52, 56, 57]
21	$[-x, \frac{1}{2} - x, \frac{1}{2} - x]$	[61, 65, 66]
22	$[-x, x + \frac{1}{2}, x + \frac{1}{2}]$	[62, 70, 71]
23	$[x, \frac{1}{2} - x, x + \frac{1}{2}]$	[63, 67, 72]
24	$[x, x + \frac{1}{2}, \frac{1}{2} - x]$	[64, 68, 69]
25	$[x + \frac{1}{2}, -x, x]$	[73, 78, 83]
26	$[x + \frac{1}{2}, x, -x]$	[74, 75, 79]
27	$[\frac{1}{2} - x, x, x]$	[76, 77, 81]
28	$[\frac{1}{2} - x, -x, -x]$	[80, 82, 84]
29	$[\frac{1}{2} - x, x, -x]$	[85, 90, 95]
30	$[\frac{1}{2} - x, -x, x]$	[86, 87, 91]

continued ...

Table 7

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

Table 8: Wyckoff site: **96h**, site symmetry:  $\dots 2'$ 

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

*continued ...*

Table 8

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

continued ...

Table 8

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



Table 9: Wyckoff site: **96i**, site symmetry: **m** . .

No.	position	mapping
1	$[0, y, z]$	$[1, 14]$
2	$[0, -y, -z]$	$[2, 13]$
3	$[0, y, -z]$	$[3, 16]$
4	$[0, -y, z]$	$[4, 15]$
5	$[z, 0, y]$	$[5, 24]$
6	$[y, z, 0]$	$[6, 21]$
7	$[-y, z, 0]$	$[7, 23]$
8	$[-z, 0, y]$	$[8, 22]$
9	$[-y, -z, 0]$	$[9, 18]$
10	$[z, 0, -y]$	$[10, 20]$
11	$[y, -z, 0]$	$[11, 19]$
12	$[-z, 0, -y]$	$[12, 17]$
13	$[\frac{1}{2}, \frac{1}{2} - z, y + \frac{1}{2}]$	$[25, 38]$
14	$[\frac{1}{2}, z + \frac{1}{2}, \frac{1}{2} - y]$	$[26, 37]$
15	$[z + \frac{1}{2}, y + \frac{1}{2}, \frac{1}{2}]$	$[27, 48]$
16	$[\frac{1}{2} - z, y + \frac{1}{2}, \frac{1}{2}]$	$[28, 47]$
17	$[\frac{1}{2} - y, \frac{1}{2}, z + \frac{1}{2}]$	$[29, 43]$
18	$[y + \frac{1}{2}, \frac{1}{2}, z + \frac{1}{2}]$	$[30, 44]$
19	$[y + \frac{1}{2}, \frac{1}{2}, \frac{1}{2} - z]$	$[31, 41]$
20	$[\frac{1}{2} - y, \frac{1}{2}, \frac{1}{2} - z]$	$[32, 42]$
21	$[\frac{1}{2}, z + \frac{1}{2}, y + \frac{1}{2}]$	$[33, 46]$
22	$[\frac{1}{2}, \frac{1}{2} - z, \frac{1}{2} - y]$	$[34, 45]$
23	$[z + \frac{1}{2}, \frac{1}{2} - y, \frac{1}{2}]$	$[35, 40]$
24	$[\frac{1}{2} - z, \frac{1}{2} - y, \frac{1}{2}]$	$[36, 39]$
25	$[0, y + \frac{1}{2}, z + \frac{1}{2}]$	$[49, 62]$
26	$[0, \frac{1}{2} - y, \frac{1}{2} - z]$	$[50, 61]$
27	$[0, y + \frac{1}{2}, \frac{1}{2} - z]$	$[51, 64]$
28	$[0, \frac{1}{2} - y, z + \frac{1}{2}]$	$[52, 63]$
29	$[z, \frac{1}{2}, y + \frac{1}{2}]$	$[53, 72]$
30	$[y, z + \frac{1}{2}, \frac{1}{2}]$	$[54, 69]$
31	$[-y, z + \frac{1}{2}, \frac{1}{2}]$	$[55, 71]$
32	$[-z, \frac{1}{2}, y + \frac{1}{2}]$	$[56, 70]$
33	$[-y, \frac{1}{2} - z, \frac{1}{2}]$	$[57, 66]$
34	$[z, \frac{1}{2}, \frac{1}{2} - y]$	$[58, 68]$
35	$[y, \frac{1}{2} - z, \frac{1}{2}]$	$[59, 67]$
36	$[-z, \frac{1}{2}, \frac{1}{2} - y]$	$[60, 65]$
37	$[\frac{1}{2}, -z, y]$	$[73, 86]$
38	$[\frac{1}{2}, z, -y]$	$[74, 85]$
39	$[z + \frac{1}{2}, y, 0]$	$[75, 96]$
40	$[\frac{1}{2} - z, y, 0]$	$[76, 95]$
41	$[\frac{1}{2} - y, 0, z]$	$[77, 91]$
42	$[y + \frac{1}{2}, 0, z]$	$[78, 92]$
43	$[y + \frac{1}{2}, 0, -z]$	$[79, 89]$
44	$[\frac{1}{2} - y, 0, -z]$	$[80, 90]$
45	$[\frac{1}{2}, z, y]$	$[81, 94]$
46	$[\frac{1}{2}, -z, -y]$	$[82, 93]$

*continued ...*

Table 9

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

continued ...

Table 9

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

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

No.	position	mapping
1	$[x, y, z]$	[1]
2	$[x, -y, -z]$	[2]
3	$[-x, y, -z]$	[3]
4	$[-x, -y, z]$	[4]
5	$[z, x, y]$	[5]
6	$[y, z, x]$	[6]
7	$[-y, z, -x]$	[7]
8	$[-z, -x, y]$	[8]
9	$[-y, -z, x]$	[9]
10	$[z, -x, -y]$	[10]
11	$[y, -z, -x]$	[11]
12	$[-z, x, -y]$	[12]
13	$[-x, -y, -z]$	[13]
14	$[-x, y, z]$	[14]
15	$[x, -y, z]$	[15]
16	$[x, y, -z]$	[16]
17	$[-z, -x, -y]$	[17]
18	$[-y, -z, -x]$	[18]
19	$[y, -z, x]$	[19]
20	$[z, x, -y]$	[20]
21	$[y, z, -x]$	[21]
22	$[-z, x, y]$	[22]
23	$[-y, z, x]$	[23]
24	$[z, -x, y]$	[24]
25	$[x + \frac{1}{2}, \frac{1}{2} - z, y + \frac{1}{2}]$	[25]
26	$[x + \frac{1}{2}, z + \frac{1}{2}, \frac{1}{2} - y]$	[26]
27	$[z + \frac{1}{2}, y + \frac{1}{2}, \frac{1}{2} - x]$	[27]
28	$[\frac{1}{2} - z, y + \frac{1}{2}, x + \frac{1}{2}]$	[28]
29	$[\frac{1}{2} - y, x + \frac{1}{2}, z + \frac{1}{2}]$	[29]
30	$[y + \frac{1}{2}, \frac{1}{2} - x, z + \frac{1}{2}]$	[30]
31	$[y + \frac{1}{2}, x + \frac{1}{2}, \frac{1}{2} - z]$	[31]
32	$[\frac{1}{2} - y, \frac{1}{2} - x, \frac{1}{2} - z]$	[32]
33	$[\frac{1}{2} - x, z + \frac{1}{2}, y + \frac{1}{2}]$	[33]
34	$[\frac{1}{2} - x, \frac{1}{2} - z, \frac{1}{2} - y]$	[34]
35	$[z + \frac{1}{2}, \frac{1}{2} - y, x + \frac{1}{2}]$	[35]
36	$[\frac{1}{2} - z, \frac{1}{2} - y, \frac{1}{2} - x]$	[36]
37	$[\frac{1}{2} - x, z + \frac{1}{2}, \frac{1}{2} - y]$	[37]

continued ...

Table 10

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

continued ...

Table 10

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

continued ...

Table 10

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

continued ...

Table 10

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