

MSG No. 203.29 $F_S d\bar{3}$ [Type IV, cubic]

Table 1: Wyckoff site: 16a, site symmetry: 23.

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

Table 2: Wyckoff site: 32b, site symmetry: $\bar{3}$.

No.	position	mapping
1	$[\frac{1}{2}, \frac{1}{2}, \frac{1}{2}]$	[1, 5, 6, 13, 17, 18]
2	$[\frac{1}{2}, \frac{1}{4}, \frac{1}{4}]$	[2, 10, 11, 38, 46, 47]
3	$[\frac{1}{4}, \frac{1}{2}, \frac{1}{4}]$	[3, 7, 12, 63, 67, 72]
4	$[\frac{1}{4}, \frac{1}{4}, \frac{1}{2}]$	[4, 8, 9, 88, 92, 93]
5	$[\frac{1}{2}, \frac{3}{4}, \frac{3}{4}]$	[14, 22, 23, 26, 34, 35]
6	$[\frac{3}{4}, \frac{1}{2}, \frac{3}{4}]$	[15, 19, 24, 51, 55, 60]
7	$[\frac{3}{4}, \frac{3}{4}, \frac{1}{2}]$	[16, 20, 21, 76, 80, 81]
8	$[\frac{1}{2}, 0, 0]$	[25, 29, 30, 37, 41, 42]
9	$[\frac{1}{4}, 0, \frac{3}{4}]$	[27, 31, 36, 87, 91, 96]
10	$[\frac{1}{4}, \frac{3}{4}, 0]$	[28, 32, 33, 64, 68, 69]
11	$[\frac{3}{4}, 0, \frac{1}{4}]$	[39, 43, 48, 75, 79, 84]
12	$[\frac{3}{4}, \frac{1}{4}, 0]$	[40, 44, 45, 52, 56, 57]
13	$[0, \frac{1}{2}, 0]$	[49, 53, 54, 61, 65, 66]
14	$[0, \frac{1}{4}, \frac{3}{4}]$	[50, 58, 59, 86, 94, 95]
15	$[0, \frac{3}{4}, \frac{1}{4}]$	[62, 70, 71, 74, 82, 83]
16	$[0, 0, \frac{1}{2}]$	[73, 77, 78, 85, 89, 90]
17	$[\frac{1}{2}, \frac{1}{2}, 0]$	[97, 101, 102, 109, 113, 114]
18	$[\frac{1}{2}, \frac{1}{4}, \frac{3}{4}]$	[98, 106, 107, 134, 142, 143]
19	$[\frac{1}{4}, \frac{1}{2}, \frac{3}{4}]$	[99, 103, 108, 159, 163, 168]
20	$[\frac{1}{4}, \frac{1}{4}, 0]$	[100, 104, 105, 184, 188, 189]
21	$[\frac{1}{2}, \frac{3}{4}, \frac{1}{4}]$	[110, 118, 119, 122, 130, 131]

continued ...

Table 2

No.	position	mapping
22	$[\frac{3}{4}, \frac{1}{2}, \frac{1}{4}]$	[111, 115, 120, 147, 151, 156]
23	$[\frac{3}{4}, \frac{3}{4}, 0]$	[112, 116, 117, 172, 176, 177]
24	$[\frac{1}{2}, 0, \frac{1}{2}]$	[121, 125, 126, 133, 137, 138]
25	$[\frac{1}{4}, 0, \frac{1}{4}]$	[123, 127, 132, 183, 187, 192]
26	$[\frac{1}{4}, \frac{3}{4}, \frac{1}{2}]$	[124, 128, 129, 160, 164, 165]
27	$[\frac{3}{4}, 0, \frac{3}{4}]$	[135, 139, 144, 171, 175, 180]
28	$[\frac{3}{4}, \frac{1}{4}, \frac{1}{2}]$	[136, 140, 141, 148, 152, 153]
29	$[0, \frac{1}{2}, \frac{1}{2}]$	[145, 149, 150, 157, 161, 162]
30	$[0, \frac{1}{4}, \frac{1}{4}]$	[146, 154, 155, 182, 190, 191]
31	$[0, \frac{3}{4}, \frac{3}{4}]$	[158, 166, 167, 170, 178, 179]
32	[0, 0, 0]	[169, 173, 174, 181, 185, 186]

Table 3: Wyckoff site: 32c, site symmetry: $\cdot -3^+$.

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

continued ...

Table 3

No.	position	mapping
30	$[\frac{3}{4}, \frac{1}{2}, 0]$	[86, 94, 95, 122, 130, 131]
31	$[\frac{1}{2}, \frac{3}{4}, 0]$	[87, 91, 96, 147, 151, 156]
32	$[\frac{1}{2}, \frac{1}{2}, \frac{1}{4}]$	[88, 92, 93, 172, 176, 177]

Table 4: Wyckoff site: 48d, site symmetry: $22'2'..$

No.	position	mapping
1	$[\frac{5}{8}, \frac{7}{8}, \frac{7}{8}]$	[1, 2, 147, 148]
2	$[\frac{1}{8}, \frac{7}{8}, \frac{7}{8}]$	[3, 4, 145, 146]
3	$[\frac{7}{8}, \frac{5}{8}, \frac{7}{8}]$	[5, 12, 128, 130]
4	$[\frac{7}{8}, \frac{7}{8}, \frac{5}{8}]$	[6, 9, 103, 107]
5	$[\frac{7}{8}, \frac{7}{8}, \frac{1}{8}]$	[7, 11, 102, 105]
6	$[\frac{7}{8}, \frac{1}{8}, \frac{7}{8}]$	[8, 10, 125, 132]
7	$[\frac{3}{8}, \frac{1}{8}, \frac{1}{8}]$	[13, 14, 159, 160]
8	$[\frac{7}{8}, \frac{1}{8}, \frac{1}{8}]$	[15, 16, 157, 158]
9	$[\frac{1}{8}, \frac{3}{8}, \frac{1}{8}]$	[17, 24, 140, 142]
10	$[\frac{1}{8}, \frac{1}{8}, \frac{3}{8}]$	[18, 21, 115, 119]
11	$[\frac{1}{8}, \frac{1}{8}, \frac{7}{8}]$	[19, 23, 114, 117]
12	$[\frac{1}{8}, \frac{7}{8}, \frac{1}{8}]$	[20, 22, 137, 144]
13	$[\frac{5}{8}, \frac{3}{8}, \frac{3}{8}]$	[25, 26, 171, 172]
14	$[\frac{1}{8}, \frac{3}{8}, \frac{3}{8}]$	[27, 28, 169, 170]
15	$[\frac{7}{8}, \frac{1}{8}, \frac{3}{8}]$	[29, 36, 104, 106]
16	$[\frac{7}{8}, \frac{3}{8}, \frac{1}{8}]$	[30, 33, 127, 131]
17	$[\frac{7}{8}, \frac{3}{8}, \frac{5}{8}]$	[31, 35, 126, 129]
18	$[\frac{7}{8}, \frac{5}{8}, \frac{3}{8}]$	[32, 34, 101, 108]
19	$[\frac{3}{8}, \frac{5}{8}, \frac{5}{8}]$	[37, 38, 183, 184]
20	$[\frac{7}{8}, \frac{5}{8}, \frac{5}{8}]$	[39, 40, 181, 182]
21	$[\frac{1}{8}, \frac{7}{8}, \frac{5}{8}]$	[41, 48, 116, 118]
22	$[\frac{1}{8}, \frac{5}{8}, \frac{7}{8}]$	[42, 45, 139, 143]
23	$[\frac{1}{8}, \frac{5}{8}, \frac{3}{8}]$	[43, 47, 138, 141]
24	$[\frac{1}{8}, \frac{3}{8}, \frac{5}{8}]$	[44, 46, 113, 120]
25	$[\frac{1}{8}, \frac{7}{8}, \frac{3}{8}]$	[49, 50, 99, 100]
26	$[\frac{5}{8}, \frac{7}{8}, \frac{3}{8}]$	[51, 52, 97, 98]
27	$[\frac{3}{8}, \frac{5}{8}, \frac{3}{8}]$	[53, 60, 176, 178]
28	$[\frac{3}{8}, \frac{7}{8}, \frac{1}{8}]$	[54, 57, 151, 155]
29	$[\frac{3}{8}, \frac{7}{8}, \frac{5}{8}]$	[55, 59, 150, 153]
30	$[\frac{3}{8}, \frac{1}{8}, \frac{3}{8}]$	[56, 58, 173, 180]
31	$[\frac{7}{8}, \frac{1}{8}, \frac{5}{8}]$	[61, 62, 111, 112]
32	$[\frac{3}{8}, \frac{1}{8}, \frac{5}{8}]$	[63, 64, 109, 110]
33	$[\frac{5}{8}, \frac{3}{8}, \frac{5}{8}]$	[65, 72, 188, 190]
34	$[\frac{5}{8}, \frac{1}{8}, \frac{7}{8}]$	[66, 69, 163, 167]
35	$[\frac{5}{8}, \frac{1}{8}, \frac{3}{8}]$	[67, 71, 162, 165]
36	$[\frac{5}{8}, \frac{7}{8}, \frac{5}{8}]$	[68, 70, 185, 192]
37	$[\frac{1}{8}, \frac{3}{8}, \frac{7}{8}]$	[73, 74, 123, 124]

continued ...

Table 4

No.	position	mapping
38	$[\frac{5}{8}, \frac{3}{8}, \frac{7}{8}]$	[75, 76, 121, 122]
39	$[\frac{3}{8}, \frac{1}{8}, \frac{7}{8}]$	[77, 84, 152, 154]
40	$[\frac{3}{8}, \frac{3}{8}, \frac{5}{8}]$	[78, 81, 175, 179]
41	$[\frac{3}{8}, \frac{3}{8}, \frac{1}{8}]$	[79, 83, 174, 177]
42	$[\frac{3}{8}, \frac{5}{8}, \frac{7}{8}]$	[80, 82, 149, 156]
43	$[\frac{7}{8}, \frac{5}{8}, \frac{1}{8}]$	[85, 86, 135, 136]
44	$[\frac{3}{8}, \frac{5}{8}, \frac{1}{8}]$	[87, 88, 133, 134]
45	$[\frac{5}{8}, \frac{7}{8}, \frac{1}{8}]$	[89, 96, 164, 166]
46	$[\frac{5}{8}, \frac{5}{8}, \frac{3}{8}]$	[90, 93, 187, 191]
47	$[\frac{5}{8}, \frac{5}{8}, \frac{7}{8}]$	[91, 95, 186, 189]
48	$[\frac{5}{8}, \frac{3}{8}, \frac{1}{8}]$	[92, 94, 161, 168]

Table 5: Wyckoff site: **64e**, site symmetry: $.3$.

No.	position	mapping
1	$[x, x, x]$	[1, 5, 6]
2	$[x, \frac{3}{4} - x, \frac{3}{4} - x]$	[2, 10, 11]
3	$[\frac{3}{4} - x, x, \frac{3}{4} - x]$	[3, 7, 12]
4	$[\frac{3}{4} - x, \frac{3}{4} - x, x]$	[4, 8, 9]
5	$[-x, -x, -x]$	[13, 17, 18]
6	$[-x, x + \frac{1}{4}, x + \frac{1}{4}]$	[14, 22, 23]
7	$[x + \frac{1}{4}, -x, x + \frac{1}{4}]$	[15, 19, 24]
8	$[x + \frac{1}{4}, x + \frac{1}{4}, -x]$	[16, 20, 21]
9	$[x, x + \frac{1}{2}, x + \frac{1}{2}]$	[25, 29, 30]
10	$[x, \frac{1}{4} - x, \frac{1}{4} - x]$	[26, 34, 35]
11	$[\frac{3}{4} - x, x + \frac{1}{2}, \frac{1}{4} - x]$	[27, 31, 36]
12	$[\frac{3}{4} - x, \frac{1}{4} - x, x + \frac{1}{2}]$	[28, 32, 33]
13	$[-x, \frac{1}{2} - x, \frac{1}{2} - x]$	[37, 41, 42]
14	$[-x, x + \frac{3}{4}, x + \frac{3}{4}]$	[38, 46, 47]
15	$[x + \frac{1}{4}, \frac{1}{2} - x, x + \frac{3}{4}]$	[39, 43, 48]
16	$[x + \frac{1}{4}, x + \frac{3}{4}, \frac{1}{2} - x]$	[40, 44, 45]
17	$[x + \frac{1}{2}, x, x + \frac{1}{2}]$	[49, 53, 54]
18	$[x + \frac{1}{2}, \frac{3}{4} - x, \frac{1}{4} - x]$	[50, 58, 59]
19	$[\frac{1}{4} - x, x, \frac{1}{4} - x]$	[51, 55, 60]
20	$[\frac{1}{4} - x, \frac{3}{4} - x, x + \frac{1}{2}]$	[52, 56, 57]
21	$[\frac{1}{2} - x, -x, \frac{1}{2} - x]$	[61, 65, 66]
22	$[\frac{1}{2} - x, x + \frac{1}{4}, x + \frac{3}{4}]$	[62, 70, 71]
23	$[x + \frac{3}{4}, -x, x + \frac{3}{4}]$	[63, 67, 72]
24	$[x + \frac{3}{4}, x + \frac{1}{4}, \frac{1}{2} - x]$	[64, 68, 69]
25	$[x + \frac{1}{2}, x + \frac{1}{2}, x]$	[73, 77, 78]
26	$[x + \frac{1}{2}, \frac{1}{4} - x, \frac{3}{4} - x]$	[74, 82, 83]
27	$[\frac{1}{4} - x, x + \frac{1}{2}, \frac{3}{4} - x]$	[75, 79, 84]
28	$[\frac{1}{4} - x, \frac{1}{4} - x, x]$	[76, 80, 81]
29	$[\frac{1}{2} - x, \frac{1}{2} - x, -x]$	[85, 89, 90]

continued ...

Table 5

No.	position	mapping
30	$[\frac{1}{2} - x, x + \frac{3}{4}, x + \frac{1}{4}]$	[86, 94, 95]
31	$[x + \frac{3}{4}, \frac{1}{2} - x, x + \frac{1}{4}]$	[87, 91, 96]
32	$[x + \frac{3}{4}, x + \frac{3}{4}, -x]$	[88, 92, 93]
33	$[x, x, x + \frac{1}{2}]$	[97, 101, 102]
34	$[x, \frac{3}{4} - x, \frac{1}{4} - x]$	[98, 106, 107]
35	$[\frac{3}{4} - x, x, \frac{1}{4} - x]$	[99, 103, 108]
36	$[\frac{3}{4} - x, \frac{3}{4} - x, x + \frac{1}{2}]$	[100, 104, 105]
37	$[-x, -x, \frac{1}{2} - x]$	[109, 113, 114]
38	$[-x, x + \frac{1}{4}, x + \frac{3}{4}]$	[110, 118, 119]
39	$[x + \frac{1}{4}, -x, x + \frac{3}{4}]$	[111, 115, 120]
40	$[x + \frac{1}{4}, x + \frac{1}{4}, \frac{1}{2} - x]$	[112, 116, 117]
41	$[x, x + \frac{1}{2}, x]$	[121, 125, 126]
42	$[x, \frac{1}{4} - x, \frac{3}{4} - x]$	[122, 130, 131]
43	$[\frac{3}{4} - x, x + \frac{1}{2}, \frac{3}{4} - x]$	[123, 127, 132]
44	$[\frac{3}{4} - x, \frac{1}{4} - x, x]$	[124, 128, 129]
45	$[-x, \frac{1}{2} - x, -x]$	[133, 137, 138]
46	$[-x, x + \frac{3}{4}, x + \frac{1}{4}]$	[134, 142, 143]
47	$[x + \frac{1}{4}, \frac{1}{2} - x, x + \frac{1}{4}]$	[135, 139, 144]
48	$[x + \frac{1}{4}, x + \frac{3}{4}, -x]$	[136, 140, 141]
49	$[x + \frac{1}{2}, x, x]$	[145, 149, 150]
50	$[x + \frac{1}{2}, \frac{3}{4} - x, \frac{3}{4} - x]$	[146, 154, 155]
51	$[\frac{1}{4} - x, x, \frac{3}{4} - x]$	[147, 151, 156]
52	$[\frac{1}{4} - x, \frac{3}{4} - x, x]$	[148, 152, 153]
53	$[\frac{1}{2} - x, -x, -x]$	[157, 161, 162]
54	$[\frac{1}{2} - x, x + \frac{1}{4}, x + \frac{1}{4}]$	[158, 166, 167]
55	$[x + \frac{3}{4}, -x, x + \frac{1}{4}]$	[159, 163, 168]
56	$[x + \frac{3}{4}, x + \frac{1}{4}, -x]$	[160, 164, 165]
57	$[x + \frac{1}{2}, x + \frac{1}{2}, x + \frac{1}{2}]$	[169, 173, 174]
58	$[x + \frac{1}{2}, \frac{1}{4} - x, \frac{1}{4} - x]$	[170, 178, 179]
59	$[\frac{1}{4} - x, x + \frac{1}{2}, \frac{1}{4} - x]$	[171, 175, 180]
60	$[\frac{1}{4} - x, \frac{1}{4} - x, x + \frac{1}{2}]$	[172, 176, 177]
61	$[\frac{1}{2} - x, \frac{1}{2} - x, \frac{1}{2} - x]$	[181, 185, 186]
62	$[\frac{1}{2} - x, x + \frac{3}{4}, x + \frac{3}{4}]$	[182, 190, 191]
63	$[x + \frac{3}{4}, \frac{1}{2} - x, x + \frac{3}{4}]$	[183, 187, 192]
64	$[x + \frac{3}{4}, x + \frac{3}{4}, \frac{1}{2} - x]$	[184, 188, 189]

Table 6: Wyckoff site: 96f, site symmetry: 2..

No.	position	mapping
1	$[x, \frac{5}{8}, \frac{5}{8}]$	[1, 26]
2	$[x, \frac{1}{8}, \frac{1}{8}]$	[2, 25]
3	$[\frac{3}{4} - x, \frac{5}{8}, \frac{1}{8}]$	[3, 28]
4	$[\frac{3}{4} - x, \frac{1}{8}, \frac{5}{8}]$	[4, 27]
5	$[\frac{5}{8}, x, \frac{5}{8}]$	[5, 60]

continued ...

Table 6

No.	position	mapping
6	$[\frac{5}{8}, \frac{5}{8}, x]$	[6,81]
7	$[\frac{1}{8}, \frac{5}{8}, \frac{3}{4} - x]$	[7,83]
8	$[\frac{1}{8}, \frac{3}{4} - x, \frac{5}{8}]$	[8,58]
9	$[\frac{1}{8}, \frac{1}{8}, x]$	[9,78]
10	$[\frac{5}{8}, \frac{3}{4} - x, \frac{1}{8}]$	[10,56]
11	$[\frac{5}{8}, \frac{1}{8}, \frac{3}{4} - x]$	[11,79]
12	$[\frac{1}{8}, x, \frac{1}{8}]$	[12,53]
13	$[-x, \frac{3}{8}, \frac{3}{8}]$	[13,38]
14	$[-x, \frac{7}{8}, \frac{7}{8}]$	[14,37]
15	$[x + \frac{1}{4}, \frac{3}{8}, \frac{7}{8}]$	[15,40]
16	$[x + \frac{1}{4}, \frac{7}{8}, \frac{3}{8}]$	[16,39]
17	$[\frac{3}{8}, -x, \frac{3}{8}]$	[17,72]
18	$[\frac{3}{8}, \frac{3}{8}, -x]$	[18,93]
19	$[\frac{7}{8}, \frac{3}{8}, x + \frac{1}{4}]$	[19,95]
20	$[\frac{7}{8}, x + \frac{1}{4}, \frac{3}{8}]$	[20,70]
21	$[\frac{7}{8}, \frac{7}{8}, -x]$	[21,90]
22	$[\frac{3}{8}, x + \frac{1}{4}, \frac{7}{8}]$	[22,68]
23	$[\frac{3}{8}, \frac{7}{8}, x + \frac{1}{4}]$	[23,91]
24	$[\frac{7}{8}, -x, \frac{7}{8}]$	[24,65]
25	$[\frac{5}{8}, x + \frac{1}{2}, \frac{1}{8}]$	[29,84]
26	$[\frac{5}{8}, \frac{1}{8}, x + \frac{1}{2}]$	[30,57]
27	$[\frac{1}{8}, \frac{1}{8}, \frac{1}{4} - x]$	[31,59]
28	$[\frac{1}{8}, \frac{1}{4} - x, \frac{1}{8}]$	[32,82]
29	$[\frac{1}{8}, \frac{5}{8}, x + \frac{1}{2}]$	[33,54]
30	$[\frac{5}{8}, \frac{1}{4} - x, \frac{5}{8}]$	[34,80]
31	$[\frac{5}{8}, \frac{5}{8}, \frac{1}{4} - x]$	[35,55]
32	$[\frac{1}{8}, x + \frac{1}{2}, \frac{5}{8}]$	[36,77]
33	$[\frac{3}{8}, \frac{1}{2} - x, \frac{7}{8}]$	[41,96]
34	$[\frac{3}{8}, \frac{7}{8}, \frac{1}{2} - x]$	[42,69]
35	$[\frac{7}{8}, \frac{7}{8}, x + \frac{3}{4}]$	[43,71]
36	$[\frac{7}{8}, x + \frac{3}{4}, \frac{7}{8}]$	[44,94]
37	$[\frac{7}{8}, \frac{3}{8}, \frac{1}{2} - x]$	[45,66]
38	$[\frac{3}{8}, x + \frac{3}{4}, \frac{3}{8}]$	[46,92]
39	$[\frac{3}{8}, \frac{3}{8}, x + \frac{3}{4}]$	[47,67]
40	$[\frac{7}{8}, \frac{1}{2} - x, \frac{3}{8}]$	[48,89]
41	$[x + \frac{1}{2}, \frac{5}{8}, \frac{1}{8}]$	[49,74]
42	$[x + \frac{1}{2}, \frac{1}{8}, \frac{5}{8}]$	[50,73]
43	$[\frac{1}{4} - x, \frac{5}{8}, \frac{5}{8}]$	[51,76]
44	$[\frac{1}{4} - x, \frac{1}{8}, \frac{1}{8}]$	[52,75]
45	$[\frac{1}{2} - x, \frac{3}{8}, \frac{7}{8}]$	[61,86]
46	$[\frac{1}{2} - x, \frac{7}{8}, \frac{3}{8}]$	[62,85]
47	$[x + \frac{3}{4}, \frac{3}{8}, \frac{3}{8}]$	[63,88]
48	$[x + \frac{3}{4}, \frac{7}{8}, \frac{7}{8}]$	[64,87]
49	$[x, \frac{5}{8}, \frac{1}{8}]$	[97,122]
50	$[x, \frac{1}{8}, \frac{5}{8}]$	[98,121]
51	$[\frac{3}{4} - x, \frac{5}{8}, \frac{5}{8}]$	[99,124]
52	$[\frac{3}{4} - x, \frac{1}{8}, \frac{1}{8}]$	[100,123]

continued ...

Table 6

No.	position	mapping
53	$[\frac{5}{8}, x, \frac{1}{8}]$	[101, 156]
54	$[\frac{5}{8}, \frac{5}{8}, x + \frac{1}{2}]$	[102, 177]
55	$[\frac{1}{8}, \frac{5}{8}, \frac{1}{4} - x]$	[103, 179]
56	$[\frac{1}{8}, \frac{3}{4} - x, \frac{1}{8}]$	[104, 154]
57	$[\frac{1}{8}, \frac{1}{8}, x + \frac{1}{2}]$	[105, 174]
58	$[\frac{5}{8}, \frac{3}{4} - x, \frac{5}{8}]$	[106, 152]
59	$[\frac{5}{8}, \frac{1}{8}, \frac{1}{4} - x]$	[107, 175]
60	$[\frac{1}{8}, x, \frac{5}{8}]$	[108, 149]
61	$[-x, \frac{3}{8}, \frac{7}{8}]$	[109, 134]
62	$[-x, \frac{7}{8}, \frac{3}{8}]$	[110, 133]
63	$[x + \frac{1}{4}, \frac{3}{8}, \frac{3}{8}]$	[111, 136]
64	$[x + \frac{1}{4}, \frac{7}{8}, \frac{7}{8}]$	[112, 135]
65	$[\frac{3}{8}, -x, \frac{7}{8}]$	[113, 168]
66	$[\frac{3}{8}, \frac{3}{8}, \frac{1}{2} - x]$	[114, 189]
67	$[\frac{7}{8}, \frac{3}{8}, x + \frac{3}{4}]$	[115, 191]
68	$[\frac{7}{8}, x + \frac{1}{4}, \frac{7}{8}]$	[116, 166]
69	$[\frac{7}{8}, \frac{7}{8}, \frac{1}{2} - x]$	[117, 186]
70	$[\frac{3}{8}, x + \frac{1}{4}, \frac{3}{8}]$	[118, 164]
71	$[\frac{3}{8}, \frac{7}{8}, x + \frac{3}{4}]$	[119, 187]
72	$[\frac{7}{8}, -x, \frac{3}{8}]$	[120, 161]
73	$[\frac{5}{8}, x + \frac{1}{2}, \frac{5}{8}]$	[125, 180]
74	$[\frac{5}{8}, \frac{1}{8}, x]$	[126, 153]
75	$[\frac{1}{8}, \frac{1}{8}, \frac{3}{4} - x]$	[127, 155]
76	$[\frac{1}{8}, \frac{1}{4} - x, \frac{5}{8}]$	[128, 178]
77	$[\frac{1}{8}, \frac{5}{8}, x]$	[129, 150]
78	$[\frac{5}{8}, \frac{1}{4} - x, \frac{1}{8}]$	[130, 176]
79	$[\frac{5}{8}, \frac{5}{8}, \frac{3}{4} - x]$	[131, 151]
80	$[\frac{1}{8}, x + \frac{1}{2}, \frac{1}{8}]$	[132, 173]
81	$[\frac{3}{8}, \frac{1}{2} - x, \frac{3}{8}]$	[137, 192]
82	$[\frac{3}{8}, \frac{7}{8}, -x]$	[138, 165]
83	$[\frac{7}{8}, \frac{7}{8}, x + \frac{1}{4}]$	[139, 167]
84	$[\frac{7}{8}, x + \frac{3}{4}, \frac{3}{8}]$	[140, 190]
85	$[\frac{7}{8}, \frac{3}{8}, -x]$	[141, 162]
86	$[\frac{3}{8}, x + \frac{3}{4}, \frac{7}{8}]$	[142, 188]
87	$[\frac{3}{8}, \frac{3}{8}, x + \frac{1}{4}]$	[143, 163]
88	$[\frac{7}{8}, \frac{1}{2} - x, \frac{7}{8}]$	[144, 185]
89	$[x + \frac{1}{2}, \frac{5}{8}, \frac{5}{8}]$	[145, 170]
90	$[x + \frac{1}{2}, \frac{1}{8}, \frac{1}{8}]$	[146, 169]
91	$[\frac{1}{4} - x, \frac{5}{8}, \frac{1}{8}]$	[147, 172]
92	$[\frac{1}{4} - x, \frac{1}{8}, \frac{5}{8}]$	[148, 171]
93	$[\frac{1}{2} - x, \frac{3}{8}, \frac{3}{8}]$	[157, 182]
94	$[\frac{1}{2} - x, \frac{7}{8}, \frac{7}{8}]$	[158, 181]
95	$[x + \frac{3}{4}, \frac{3}{8}, \frac{7}{8}]$	[159, 184]
96	$[x + \frac{3}{4}, \frac{7}{8}, \frac{3}{8}]$	[160, 183]

Table 7: Wyckoff site: **96g**, site symmetry: $2' \dots$

No.	position	mapping
1	$[x, \frac{7}{8}, \frac{5}{8}]$	[1,98]
2	$[x, \frac{7}{8}, \frac{1}{8}]$	[2,97]
3	$[\frac{3}{4} - x, \frac{7}{8}, \frac{1}{8}]$	[3,100]
4	$[\frac{3}{4} - x, \frac{7}{8}, \frac{5}{8}]$	[4,99]
5	$[\frac{5}{8}, x, \frac{7}{8}]$	[5,156]
6	$[\frac{7}{8}, \frac{5}{8}, x]$	[6,129]
7	$[\frac{7}{8}, \frac{5}{8}, \frac{3}{4} - x]$	[7,131]
8	$[\frac{1}{8}, \frac{3}{4} - x, \frac{7}{8}]$	[8,154]
9	$[\frac{7}{8}, \frac{1}{8}, x]$	[9,126]
10	$[\frac{5}{8}, \frac{3}{4} - x, \frac{7}{8}]$	[10,152]
11	$[\frac{7}{8}, \frac{1}{8}, \frac{3}{4} - x]$	[11,127]
12	$[\frac{1}{8}, x, \frac{7}{8}]$	[12,149]
13	$[-x, \frac{1}{8}, \frac{3}{8}]$	[13,110]
14	$[-x, \frac{1}{8}, \frac{7}{8}]$	[14,109]
15	$[x + \frac{1}{4}, \frac{1}{8}, \frac{7}{8}]$	[15,112]
16	$[x + \frac{1}{4}, \frac{1}{8}, \frac{3}{8}]$	[16,111]
17	$[\frac{3}{8}, -x, \frac{1}{8}]$	[17,168]
18	$[\frac{1}{8}, \frac{3}{8}, -x]$	[18,141]
19	$[\frac{1}{8}, \frac{3}{8}, x + \frac{1}{4}]$	[19,143]
20	$[\frac{7}{8}, x + \frac{1}{4}, \frac{1}{8}]$	[20,166]
21	$[\frac{1}{8}, \frac{7}{8}, -x]$	[21,138]
22	$[\frac{3}{8}, x + \frac{1}{4}, \frac{1}{8}]$	[22,164]
23	$[\frac{1}{8}, \frac{7}{8}, x + \frac{1}{4}]$	[23,139]
24	$[\frac{7}{8}, -x, \frac{1}{8}]$	[24,161]
25	$[x, \frac{3}{8}, \frac{1}{8}]$	[25,122]
26	$[x, \frac{3}{8}, \frac{5}{8}]$	[26,121]
27	$[\frac{3}{4} - x, \frac{3}{8}, \frac{5}{8}]$	[27,124]
28	$[\frac{3}{4} - x, \frac{3}{8}, \frac{1}{8}]$	[28,123]
29	$[\frac{5}{8}, x + \frac{1}{2}, \frac{3}{8}]$	[29,180]
30	$[\frac{7}{8}, \frac{1}{8}, x + \frac{1}{2}]$	[30,105]
31	$[\frac{7}{8}, \frac{1}{8}, \frac{1}{4} - x]$	[31,107]
32	$[\frac{1}{8}, \frac{1}{4} - x, \frac{3}{8}]$	[32,178]
33	$[\frac{7}{8}, \frac{5}{8}, x + \frac{1}{2}]$	[33,102]
34	$[\frac{5}{8}, \frac{1}{4} - x, \frac{3}{8}]$	[34,176]
35	$[\frac{7}{8}, \frac{5}{8}, \frac{1}{4} - x]$	[35,103]
36	$[\frac{1}{8}, x + \frac{1}{2}, \frac{3}{8}]$	[36,173]
37	$[-x, \frac{5}{8}, \frac{7}{8}]$	[37,134]
38	$[-x, \frac{5}{8}, \frac{3}{8}]$	[38,133]
39	$[x + \frac{1}{4}, \frac{5}{8}, \frac{3}{8}]$	[39,136]
40	$[x + \frac{1}{4}, \frac{5}{8}, \frac{7}{8}]$	[40,135]
41	$[\frac{3}{8}, \frac{1}{2} - x, \frac{5}{8}]$	[41,192]
42	$[\frac{1}{8}, \frac{7}{8}, \frac{1}{2} - x]$	[42,117]
43	$[\frac{1}{8}, \frac{7}{8}, x + \frac{3}{4}]$	[43,119]
44	$[\frac{7}{8}, x + \frac{3}{4}, \frac{5}{8}]$	[44,190]
45	$[\frac{1}{8}, \frac{3}{8}, \frac{1}{2} - x]$	[45,114]
46	$[\frac{3}{8}, x + \frac{3}{4}, \frac{5}{8}]$	[46,188]

continued ...

Table 7

No.	position	mapping
47	$[\frac{1}{8}, \frac{3}{8}, x + \frac{3}{4}]$	[47,115]
48	$[\frac{7}{8}, \frac{1}{2} - x, \frac{5}{8}]$	[48,185]
49	$[x + \frac{1}{2}, \frac{7}{8}, \frac{1}{8}]$	[49,146]
50	$[x + \frac{1}{2}, \frac{7}{8}, \frac{5}{8}]$	[50,145]
51	$[\frac{1}{4} - x, \frac{7}{8}, \frac{5}{8}]$	[51,148]
52	$[\frac{1}{4} - x, \frac{7}{8}, \frac{1}{8}]$	[52,147]
53	$[\frac{1}{8}, x, \frac{3}{8}]$	[53,108]
54	$[\frac{3}{8}, \frac{5}{8}, x + \frac{1}{2}]$	[54,177]
55	$[\frac{3}{8}, \frac{5}{8}, \frac{1}{4} - x]$	[55,179]
56	$[\frac{5}{8}, \frac{3}{4} - x, \frac{3}{8}]$	[56,106]
57	$[\frac{3}{8}, \frac{1}{8}, x + \frac{1}{2}]$	[57,174]
58	$[\frac{1}{8}, \frac{3}{4} - x, \frac{3}{8}]$	[58,104]
59	$[\frac{3}{8}, \frac{1}{8}, \frac{1}{4} - x]$	[59,175]
60	$[\frac{5}{8}, x, \frac{3}{8}]$	[60,101]
61	$[\frac{1}{2} - x, \frac{1}{8}, \frac{7}{8}]$	[61,158]
62	$[\frac{1}{2} - x, \frac{1}{8}, \frac{3}{8}]$	[62,157]
63	$[x + \frac{3}{4}, \frac{1}{8}, \frac{3}{8}]$	[63,160]
64	$[x + \frac{3}{4}, \frac{1}{8}, \frac{7}{8}]$	[64,159]
65	$[\frac{7}{8}, -x, \frac{5}{8}]$	[65,120]
66	$[\frac{5}{8}, \frac{3}{8}, \frac{1}{2} - x]$	[66,189]
67	$[\frac{5}{8}, \frac{3}{8}, x + \frac{3}{4}]$	[67,191]
68	$[\frac{3}{8}, x + \frac{1}{4}, \frac{5}{8}]$	[68,118]
69	$[\frac{5}{8}, \frac{7}{8}, \frac{1}{2} - x]$	[69,186]
70	$[\frac{7}{8}, x + \frac{1}{4}, \frac{5}{8}]$	[70,116]
71	$[\frac{5}{8}, \frac{7}{8}, x + \frac{3}{4}]$	[71,187]
72	$[\frac{3}{8}, -x, \frac{5}{8}]$	[72,113]
73	$[x + \frac{1}{2}, \frac{3}{8}, \frac{5}{8}]$	[73,170]
74	$[x + \frac{1}{2}, \frac{3}{8}, \frac{1}{8}]$	[74,169]
75	$[\frac{1}{4} - x, \frac{3}{8}, \frac{1}{8}]$	[75,172]
76	$[\frac{1}{4} - x, \frac{3}{8}, \frac{5}{8}]$	[76,171]
77	$[\frac{1}{8}, x + \frac{1}{2}, \frac{7}{8}]$	[77,132]
78	$[\frac{3}{8}, \frac{1}{8}, x]$	[78,153]
79	$[\frac{3}{8}, \frac{1}{8}, \frac{3}{4} - x]$	[79,155]
80	$[\frac{5}{8}, \frac{1}{4} - x, \frac{7}{8}]$	[80,130]
81	$[\frac{3}{8}, \frac{5}{8}, x]$	[81,150]
82	$[\frac{1}{8}, \frac{1}{4} - x, \frac{7}{8}]$	[82,128]
83	$[\frac{3}{8}, \frac{5}{8}, \frac{3}{4} - x]$	[83,151]
84	$[\frac{5}{8}, x + \frac{1}{2}, \frac{7}{8}]$	[84,125]
85	$[\frac{1}{2} - x, \frac{5}{8}, \frac{3}{8}]$	[85,182]
86	$[\frac{1}{2} - x, \frac{5}{8}, \frac{7}{8}]$	[86,181]
87	$[x + \frac{3}{4}, \frac{5}{8}, \frac{7}{8}]$	[87,184]
88	$[x + \frac{3}{4}, \frac{5}{8}, \frac{3}{8}]$	[88,183]
89	$[\frac{7}{8}, \frac{1}{2} - x, \frac{1}{8}]$	[89,144]
90	$[\frac{5}{8}, \frac{7}{8}, -x]$	[90,165]
91	$[\frac{5}{8}, \frac{7}{8}, x + \frac{1}{4}]$	[91,167]
92	$[\frac{3}{8}, x + \frac{3}{4}, \frac{1}{8}]$	[92,142]
93	$[\frac{5}{8}, \frac{3}{8}, -x]$	[93,162]

continued ...

Table 7

No.	position	mapping
94	$[\frac{7}{8}, x + \frac{3}{4}, \frac{1}{8}]$	[94,140]
95	$[\frac{5}{8}, \frac{3}{8}, x + \frac{1}{4}]$	[95,163]
96	$[\frac{3}{8}, \frac{1}{2} - x, \frac{1}{8}]$	[96,137]

Table 8: Wyckoff site: 192h, site symmetry: 1

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

continued ...

Table 8

No.	position	mapping
38	$[-x, y + \frac{3}{4}, z + \frac{3}{4}]$	[38]
39	$[x + \frac{1}{4}, \frac{1}{2} - y, z + \frac{3}{4}]$	[39]
40	$[x + \frac{1}{4}, y + \frac{3}{4}, \frac{1}{2} - z]$	[40]
41	$[-z, \frac{1}{2} - x, \frac{1}{2} - y]$	[41]
42	$[-y, \frac{1}{2} - z, \frac{1}{2} - x]$	[42]
43	$[y + \frac{1}{4}, \frac{1}{2} - z, x + \frac{3}{4}]$	[43]
44	$[z + \frac{1}{4}, x + \frac{3}{4}, \frac{1}{2} - y]$	[44]
45	$[y + \frac{1}{4}, z + \frac{3}{4}, \frac{1}{2} - x]$	[45]
46	$[-z, x + \frac{3}{4}, y + \frac{3}{4}]$	[46]
47	$[-y, z + \frac{3}{4}, x + \frac{3}{4}]$	[47]
48	$[z + \frac{1}{4}, \frac{1}{2} - x, y + \frac{3}{4}]$	[48]
49	$[x + \frac{1}{2}, y, z + \frac{1}{2}]$	[49]
50	$[x + \frac{1}{2}, \frac{3}{4} - y, \frac{1}{4} - z]$	[50]
51	$[\frac{1}{4} - x, y, \frac{1}{4} - z]$	[51]
52	$[\frac{1}{4} - x, \frac{3}{4} - y, z + \frac{1}{2}]$	[52]
53	$[z + \frac{1}{2}, x, y + \frac{1}{2}]$	[53]
54	$[y + \frac{1}{2}, z, x + \frac{1}{2}]$	[54]
55	$[\frac{1}{4} - y, z, \frac{1}{4} - x]$	[55]
56	$[\frac{1}{4} - z, \frac{3}{4} - x, y + \frac{1}{2}]$	[56]
57	$[\frac{1}{4} - y, \frac{3}{4} - z, x + \frac{1}{2}]$	[57]
58	$[z + \frac{1}{2}, \frac{3}{4} - x, \frac{1}{4} - y]$	[58]
59	$[y + \frac{1}{2}, \frac{3}{4} - z, \frac{1}{4} - x]$	[59]
60	$[\frac{1}{4} - z, x, \frac{1}{4} - y]$	[60]
61	$[\frac{1}{2} - x, -y, \frac{1}{2} - z]$	[61]
62	$[\frac{1}{2} - x, y + \frac{1}{4}, z + \frac{3}{4}]$	[62]
63	$[x + \frac{3}{4}, -y, z + \frac{3}{4}]$	[63]
64	$[x + \frac{3}{4}, y + \frac{1}{4}, \frac{1}{2} - z]$	[64]
65	$[\frac{1}{2} - z, -x, \frac{1}{2} - y]$	[65]
66	$[\frac{1}{2} - y, -z, \frac{1}{2} - x]$	[66]
67	$[y + \frac{3}{4}, -z, x + \frac{3}{4}]$	[67]
68	$[z + \frac{3}{4}, x + \frac{1}{4}, \frac{1}{2} - y]$	[68]
69	$[y + \frac{3}{4}, z + \frac{1}{4}, \frac{1}{2} - x]$	[69]
70	$[\frac{1}{2} - z, x + \frac{1}{4}, y + \frac{3}{4}]$	[70]
71	$[\frac{1}{2} - y, z + \frac{1}{4}, x + \frac{3}{4}]$	[71]
72	$[z + \frac{3}{4}, -x, y + \frac{3}{4}]$	[72]
73	$[x + \frac{1}{2}, y + \frac{1}{2}, z]$	[73]
74	$[x + \frac{1}{2}, \frac{1}{4} - y, \frac{3}{4} - z]$	[74]
75	$[\frac{1}{4} - x, y + \frac{1}{2}, \frac{3}{4} - z]$	[75]
76	$[\frac{1}{4} - x, \frac{1}{4} - y, z]$	[76]
77	$[z + \frac{1}{2}, x + \frac{1}{2}, y]$	[77]
78	$[y + \frac{1}{2}, z + \frac{1}{2}, x]$	[78]
79	$[\frac{1}{4} - y, z + \frac{1}{2}, \frac{3}{4} - x]$	[79]
80	$[\frac{1}{4} - z, \frac{1}{4} - x, y]$	[80]
81	$[\frac{1}{4} - y, \frac{1}{4} - z, x]$	[81]
82	$[z + \frac{1}{2}, \frac{1}{4} - x, \frac{3}{4} - y]$	[82]
83	$[y + \frac{1}{2}, \frac{1}{4} - z, \frac{3}{4} - x]$	[83]
84	$[\frac{1}{4} - z, x + \frac{1}{2}, \frac{3}{4} - y]$	[84]

continued ...

Table 8

No.	position	mapping
85	$[\frac{1}{2} - x, \frac{1}{2} - y, -z]$	[85]
86	$[\frac{1}{2} - x, y + \frac{3}{4}, z + \frac{1}{4}]$	[86]
87	$[x + \frac{3}{4}, \frac{1}{2} - y, z + \frac{1}{4}]$	[87]
88	$[x + \frac{3}{4}, y + \frac{3}{4}, -z]$	[88]
89	$[\frac{1}{2} - z, \frac{1}{2} - x, -y]$	[89]
90	$[\frac{1}{2} - y, \frac{1}{2} - z, -x]$	[90]
91	$[y + \frac{3}{4}, \frac{1}{2} - z, x + \frac{1}{4}]$	[91]
92	$[z + \frac{3}{4}, x + \frac{3}{4}, -y]$	[92]
93	$[y + \frac{3}{4}, z + \frac{3}{4}, -x]$	[93]
94	$[\frac{1}{2} - z, x + \frac{3}{4}, y + \frac{1}{4}]$	[94]
95	$[\frac{1}{2} - y, z + \frac{3}{4}, x + \frac{1}{4}]$	[95]
96	$[z + \frac{3}{4}, \frac{1}{2} - x, y + \frac{1}{4}]$	[96]
97	$[x, y, z + \frac{1}{2}]$	[97]
98	$[x, \frac{3}{4} - y, \frac{1}{4} - z]$	[98]
99	$[\frac{3}{4} - x, y, \frac{1}{4} - z]$	[99]
100	$[\frac{3}{4} - x, \frac{3}{4} - y, z + \frac{1}{2}]$	[100]
101	$[z, x, y + \frac{1}{2}]$	[101]
102	$[y, z, x + \frac{1}{2}]$	[102]
103	$[\frac{3}{4} - y, z, \frac{1}{4} - x]$	[103]
104	$[\frac{3}{4} - z, \frac{3}{4} - x, y + \frac{1}{2}]$	[104]
105	$[\frac{3}{4} - y, \frac{3}{4} - z, x + \frac{1}{2}]$	[105]
106	$[z, \frac{3}{4} - x, \frac{1}{4} - y]$	[106]
107	$[y, \frac{3}{4} - z, \frac{1}{4} - x]$	[107]
108	$[\frac{3}{4} - z, x, \frac{1}{4} - y]$	[108]
109	$[-x, -y, \frac{1}{2} - z]$	[109]
110	$[-x, y + \frac{1}{4}, z + \frac{3}{4}]$	[110]
111	$[x + \frac{1}{4}, -y, z + \frac{3}{4}]$	[111]
112	$[x + \frac{1}{4}, y + \frac{1}{4}, \frac{1}{2} - z]$	[112]
113	$[-z, -x, \frac{1}{2} - y]$	[113]
114	$[-y, -z, \frac{1}{2} - x]$	[114]
115	$[y + \frac{1}{4}, -z, x + \frac{3}{4}]$	[115]
116	$[z + \frac{1}{4}, x + \frac{1}{4}, \frac{1}{2} - y]$	[116]
117	$[y + \frac{1}{4}, z + \frac{1}{4}, \frac{1}{2} - x]$	[117]
118	$[-z, x + \frac{1}{4}, y + \frac{3}{4}]$	[118]
119	$[-y, z + \frac{1}{4}, x + \frac{3}{4}]$	[119]
120	$[z + \frac{1}{4}, -x, y + \frac{3}{4}]$	[120]
121	$[x, y + \frac{1}{2}, z]$	[121]
122	$[x, \frac{1}{4} - y, \frac{3}{4} - z]$	[122]
123	$[\frac{3}{4} - x, y + \frac{1}{2}, \frac{3}{4} - z]$	[123]
124	$[\frac{3}{4} - x, \frac{1}{4} - y, z]$	[124]
125	$[z, x + \frac{1}{2}, y]$	[125]
126	$[y, z + \frac{1}{2}, x]$	[126]
127	$[\frac{3}{4} - y, z + \frac{1}{2}, \frac{3}{4} - x]$	[127]
128	$[\frac{3}{4} - z, \frac{1}{4} - x, y]$	[128]
129	$[\frac{3}{4} - y, \frac{1}{4} - z, x]$	[129]
130	$[z, \frac{1}{4} - x, \frac{3}{4} - y]$	[130]
131	$[y, \frac{1}{4} - z, \frac{3}{4} - x]$	[131]

continued ...

Table 8

No.	position	mapping
132	$[\frac{3}{4} - z, x + \frac{1}{2}, \frac{3}{4} - y]$	[132]
133	$[-x, \frac{1}{2} - y, -z]$	[133]
134	$[-x, y + \frac{3}{4}, z + \frac{1}{4}]$	[134]
135	$[x + \frac{1}{4}, \frac{1}{2} - y, z + \frac{1}{4}]$	[135]
136	$[x + \frac{1}{4}, y + \frac{3}{4}, -z]$	[136]
137	$[-z, \frac{1}{2} - x, -y]$	[137]
138	$[-y, \frac{1}{2} - z, -x]$	[138]
139	$[y + \frac{1}{4}, \frac{1}{2} - z, x + \frac{1}{4}]$	[139]
140	$[z + \frac{1}{4}, x + \frac{3}{4}, -y]$	[140]
141	$[y + \frac{1}{4}, z + \frac{3}{4}, -x]$	[141]
142	$[-z, x + \frac{3}{4}, y + \frac{1}{4}]$	[142]
143	$[-y, z + \frac{3}{4}, x + \frac{1}{4}]$	[143]
144	$[z + \frac{1}{4}, \frac{1}{2} - x, y + \frac{1}{4}]$	[144]
145	$[x + \frac{1}{2}, y, z]$	[145]
146	$[x + \frac{1}{2}, \frac{3}{4} - y, \frac{3}{4} - z]$	[146]
147	$[\frac{1}{4} - x, y, \frac{3}{4} - z]$	[147]
148	$[\frac{1}{4} - x, \frac{3}{4} - y, z]$	[148]
149	$[z + \frac{1}{2}, x, y]$	[149]
150	$[y + \frac{1}{2}, z, x]$	[150]
151	$[\frac{1}{4} - y, z, \frac{3}{4} - x]$	[151]
152	$[\frac{1}{4} - z, \frac{3}{4} - x, y]$	[152]
153	$[\frac{1}{4} - y, \frac{3}{4} - z, x]$	[153]
154	$[z + \frac{1}{2}, \frac{3}{4} - x, \frac{3}{4} - y]$	[154]
155	$[y + \frac{1}{2}, \frac{3}{4} - z, \frac{3}{4} - x]$	[155]
156	$[\frac{1}{4} - z, x, \frac{3}{4} - y]$	[156]
157	$[\frac{1}{2} - x, -y, -z]$	[157]
158	$[\frac{1}{2} - x, y + \frac{1}{4}, z + \frac{1}{4}]$	[158]
159	$[x + \frac{3}{4}, -y, z + \frac{1}{4}]$	[159]
160	$[x + \frac{3}{4}, y + \frac{1}{4}, -z]$	[160]
161	$[\frac{1}{2} - z, -x, -y]$	[161]
162	$[\frac{1}{2} - y, -z, -x]$	[162]
163	$[y + \frac{3}{4}, -z, x + \frac{1}{4}]$	[163]
164	$[z + \frac{3}{4}, x + \frac{1}{4}, -y]$	[164]
165	$[y + \frac{3}{4}, z + \frac{1}{4}, -x]$	[165]
166	$[\frac{1}{2} - z, x + \frac{1}{4}, y + \frac{1}{4}]$	[166]
167	$[\frac{1}{2} - y, z + \frac{1}{4}, x + \frac{1}{4}]$	[167]
168	$[z + \frac{3}{4}, -x, y + \frac{1}{4}]$	[168]
169	$[x + \frac{1}{2}, y + \frac{1}{2}, z + \frac{1}{2}]$	[169]
170	$[x + \frac{1}{2}, \frac{1}{4} - y, \frac{1}{4} - z]$	[170]
171	$[\frac{1}{4} - x, y + \frac{1}{2}, \frac{1}{4} - z]$	[171]
172	$[\frac{1}{4} - x, \frac{1}{4} - y, z + \frac{1}{2}]$	[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	$[\frac{1}{4} - y, z + \frac{1}{2}, \frac{1}{4} - x]$	[175]
176	$[\frac{1}{4} - z, \frac{1}{4} - x, y + \frac{1}{2}]$	[176]
177	$[\frac{1}{4} - y, \frac{1}{4} - z, x + \frac{1}{2}]$	[177]
178	$[z + \frac{1}{2}, \frac{1}{4} - x, \frac{1}{4} - y]$	[178]

continued ...

Table 8

No.	position	mapping
179	$[y + \frac{1}{2}, \frac{1}{4} - z, \frac{1}{4} - x]$	[179]
180	$[\frac{1}{4} - z, x + \frac{1}{2}, \frac{1}{4} - y]$	[180]
181	$[\frac{1}{2} - x, \frac{1}{2} - y, \frac{1}{2} - z]$	[181]
182	$[\frac{1}{2} - x, y + \frac{3}{4}, z + \frac{3}{4}]$	[182]
183	$[x + \frac{3}{4}, \frac{1}{2} - y, z + \frac{3}{4}]$	[183]
184	$[x + \frac{3}{4}, y + \frac{3}{4}, \frac{1}{2} - z]$	[184]
185	$[\frac{1}{2} - z, \frac{1}{2} - x, \frac{1}{2} - y]$	[185]
186	$[\frac{1}{2} - y, \frac{1}{2} - z, \frac{1}{2} - x]$	[186]
187	$[y + \frac{3}{4}, \frac{1}{2} - z, x + \frac{3}{4}]$	[187]
188	$[z + \frac{3}{4}, x + \frac{3}{4}, \frac{1}{2} - y]$	[188]
189	$[y + \frac{3}{4}, z + \frac{3}{4}, \frac{1}{2} - x]$	[189]
190	$[\frac{1}{2} - z, x + \frac{3}{4}, y + \frac{3}{4}]$	[190]
191	$[\frac{1}{2} - y, z + \frac{3}{4}, x + \frac{3}{4}]$	[191]
192	$[z + \frac{3}{4}, \frac{1}{2} - x, y + \frac{3}{4}]$	[192]