

Table 1: Wyckoff site: 6a, site symmetry: $32..1'$

No.	position	mapping
1	$[0, 0, \frac{1}{4}]$	[1, 2, 3, 4, 5, 6, 37, 38, 39, 40, 41, 42]
2	$[0, 0, \frac{3}{4}]$	[7, 8, 9, 10, 11, 12, 43, 44, 45, 46, 47, 48]
3	$[\frac{2}{3}, \frac{1}{3}, \frac{7}{12}]$	[13, 14, 15, 16, 17, 18, 49, 50, 51, 52, 53, 54]
4	$[\frac{2}{3}, \frac{1}{3}, \frac{1}{12}]$	[19, 20, 21, 22, 23, 24, 55, 56, 57, 58, 59, 60]
5	$[\frac{1}{3}, \frac{2}{3}, \frac{11}{12}]$	[25, 26, 27, 28, 29, 30, 61, 62, 63, 64, 65, 66]
6	$[\frac{1}{3}, \frac{2}{3}, \frac{5}{12}]$	[31, 32, 33, 34, 35, 36, 67, 68, 69, 70, 71, 72]

 Table 2: Wyckoff site: 6b, site symmetry: $-3..1'$

No.	position	mapping
1	[0, 0, 0]	[1, 2, 3, 7, 8, 9, 37, 38, 39, 43, 44, 45]
2	$[0, 0, \frac{1}{2}]$	[4, 5, 6, 10, 11, 12, 40, 41, 42, 46, 47, 48]
3	$[\frac{2}{3}, \frac{1}{3}, \frac{1}{3}]$	[13, 14, 15, 19, 20, 21, 49, 50, 51, 55, 56, 57]
4	$[\frac{2}{3}, \frac{1}{3}, \frac{5}{6}]$	[16, 17, 18, 22, 23, 24, 52, 53, 54, 58, 59, 60]
5	$[\frac{1}{3}, \frac{2}{3}, \frac{2}{3}]$	[25, 26, 27, 31, 32, 33, 61, 62, 63, 67, 68, 69]
6	$[\frac{1}{3}, \frac{2}{3}, \frac{1}{6}]$	[28, 29, 30, 34, 35, 36, 64, 65, 66, 70, 71, 72]

 Table 3: Wyckoff site: 12c, site symmetry: $3..1'$

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

Table 4: Wyckoff site: 18d, site symmetry: $-11'$

No.	position	mapping
1	$[\frac{1}{2}, 0, 0]$	[1, 7, 37, 43]
2	$[0, \frac{1}{2}, 0]$	[2, 8, 38, 44]
3	$[\frac{1}{2}, \frac{1}{2}, 0]$	[3, 9, 39, 45]
4	$[\frac{1}{2}, 0, \frac{1}{2}]$	[4, 10, 40, 46]
5	$[0, \frac{1}{2}, \frac{1}{2}]$	[5, 11, 41, 47]
6	$[\frac{1}{2}, \frac{1}{2}, \frac{1}{2}]$	[6, 12, 42, 48]
7	$[\frac{1}{6}, \frac{1}{3}, \frac{1}{3}]$	[13, 19, 49, 55]
8	$[\frac{2}{3}, \frac{5}{6}, \frac{1}{3}]$	[14, 20, 50, 56]
9	$[\frac{1}{6}, \frac{5}{6}, \frac{1}{3}]$	[15, 21, 51, 57]
10	$[\frac{1}{6}, \frac{1}{3}, \frac{5}{6}]$	[16, 22, 52, 58]
11	$[\frac{2}{3}, \frac{5}{6}, \frac{5}{6}]$	[17, 23, 53, 59]
12	$[\frac{1}{6}, \frac{5}{6}, \frac{5}{6}]$	[18, 24, 54, 60]
13	$[\frac{5}{6}, \frac{2}{3}, \frac{2}{3}]$	[25, 31, 61, 67]
14	$[\frac{1}{3}, \frac{1}{6}, \frac{2}{3}]$	[26, 32, 62, 68]
15	$[\frac{5}{6}, \frac{1}{6}, \frac{2}{3}]$	[27, 33, 63, 69]
16	$[\frac{5}{6}, \frac{2}{3}, \frac{1}{6}]$	[28, 34, 64, 70]
17	$[\frac{1}{3}, \frac{1}{6}, \frac{1}{6}]$	[29, 35, 65, 71]
18	$[\frac{5}{6}, \frac{1}{6}, \frac{1}{6}]$	[30, 36, 66, 72]

Table 5: Wyckoff site: 18e, site symmetry: $.2.1'$

No.	position	mapping
1	$[x, 0, \frac{1}{4}]$	[1, 4, 37, 40]
2	$[0, x, \frac{1}{4}]$	[2, 5, 38, 41]
3	$[-x, -x, \frac{1}{4}]$	[3, 6, 39, 42]
4	$[-x, 0, \frac{3}{4}]$	[7, 10, 43, 46]
5	$[0, -x, \frac{3}{4}]$	[8, 11, 44, 47]
6	$[x, x, \frac{3}{4}]$	[9, 12, 45, 48]
7	$[x + \frac{2}{3}, \frac{1}{3}, \frac{7}{12}]$	[13, 16, 49, 52]
8	$[\frac{2}{3}, x + \frac{1}{3}, \frac{7}{12}]$	[14, 17, 50, 53]
9	$[\frac{2}{3} - x, \frac{1}{3} - x, \frac{7}{12}]$	[15, 18, 51, 54]
10	$[\frac{2}{3} - x, \frac{1}{3}, \frac{1}{12}]$	[19, 22, 55, 58]
11	$[\frac{2}{3}, \frac{1}{3} - x, \frac{1}{12}]$	[20, 23, 56, 59]
12	$[x + \frac{2}{3}, x + \frac{1}{3}, \frac{1}{12}]$	[21, 24, 57, 60]
13	$[x + \frac{1}{3}, \frac{2}{3}, \frac{11}{12}]$	[25, 28, 61, 64]
14	$[\frac{1}{3}, x + \frac{2}{3}, \frac{11}{12}]$	[26, 29, 62, 65]
15	$[\frac{1}{3} - x, \frac{2}{3} - x, \frac{11}{12}]$	[27, 30, 63, 66]
16	$[\frac{1}{3} - x, \frac{2}{3}, \frac{5}{12}]$	[31, 34, 67, 70]
17	$[\frac{1}{3}, \frac{2}{3} - x, \frac{5}{12}]$	[32, 35, 68, 71]
18	$[x + \frac{1}{3}, x + \frac{2}{3}, \frac{5}{12}]$	[33, 36, 69, 72]

Table 6: Wyckoff site: 36f, site symmetry: 11'

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