

Table 1: Wyckoff site: 2a, site symmetry: $6'/m..$

No.	position	mapping
1	$[0, 0, \frac{3}{4}]$	$[1, 3, 5, 8, 10, 12, 14, 16, 18, 19, 21, 23]$
2	$[0, 0, \frac{1}{4}]$	$[2, 4, 6, 7, 9, 11, 13, 15, 17, 20, 22, 24]$

Table 2: Wyckoff site: 2b, site symmetry: $6'/m'..$

No.	position	mapping
1	$[0, 0, 0]$	$[1, 3, 5, 7, 9, 11, 14, 16, 18, 20, 22, 24]$
2	$[0, 0, \frac{1}{2}]$	$[2, 4, 6, 8, 10, 12, 13, 15, 17, 19, 21, 23]$

Table 3: Wyckoff site: 4c, site symmetry: $-6..$

No.	position	mapping
1	$[\frac{1}{3}, \frac{2}{3}, \frac{3}{4}]$	$[1, 3, 5, 8, 10, 12]$
2	$[\frac{2}{3}, \frac{1}{3}, \frac{1}{4}]$	$[2, 4, 6, 7, 9, 11]$
3	$[\frac{1}{3}, \frac{2}{3}, \frac{1}{4}]$	$[13, 15, 17, 20, 22, 24]$
4	$[\frac{2}{3}, \frac{1}{3}, \frac{3}{4}]$	$[14, 16, 18, 19, 21, 23]$

Table 4: Wyckoff site: 4d, site symmetry: $-6'..$

No.	position	mapping
1	$[\frac{1}{3}, \frac{2}{3}, 0]$	$[1, 3, 5, 20, 22, 24]$
2	$[\frac{2}{3}, \frac{1}{3}, \frac{1}{2}]$	$[2, 4, 6, 19, 21, 23]$
3	$[\frac{2}{3}, \frac{1}{3}, 0]$	$[7, 9, 11, 14, 16, 18]$
4	$[\frac{1}{3}, \frac{2}{3}, \frac{1}{2}]$	$[8, 10, 12, 13, 15, 17]$

Table 5: Wyckoff site: 4e, site symmetry: $6'..$

No.	position	mapping
1	$[0, 0, z]$	$[1, 3, 5, 14, 16, 18]$
2	$[0, 0, z + \frac{1}{2}]$	$[2, 4, 6, 13, 15, 17]$
3	$[0, 0, -z]$	$[7, 9, 11, 20, 22, 24]$
4	$[0, 0, \frac{1}{2} - z]$	$[8, 10, 12, 19, 21, 23]$

Table 6: Wyckoff site: **6f**, site symmetry: $2'/m$. .

No.	position	mapping
1	$[\frac{1}{2}, 0, \frac{3}{4}]$	[1,10,16,19]
2	$[\frac{1}{2}, \frac{1}{2}, \frac{1}{4}]$	[2,11,17,20]
3	$[0, \frac{1}{2}, \frac{3}{4}]$	[3,12,18,21]
4	$[\frac{1}{2}, 0, \frac{1}{4}]$	[4,7,13,22]
5	$[\frac{1}{2}, \frac{1}{2}, \frac{3}{4}]$	[5,8,14,23]
6	$[0, \frac{1}{2}, \frac{1}{4}]$	[6,9,15,24]

Table 7: Wyckoff site: **6g**, site symmetry: $2'/m'$. .

No.	position	mapping
1	$[\frac{1}{2}, 0, 0]$	[1,7,16,22]
2	$[\frac{1}{2}, \frac{1}{2}, \frac{1}{2}]$	[2,8,17,23]
3	$[0, \frac{1}{2}, 0]$	[3,9,18,24]
4	$[\frac{1}{2}, 0, \frac{1}{2}]$	[4,10,13,19]
5	$[\frac{1}{2}, \frac{1}{2}, 0]$	[5,11,14,20]
6	$[0, \frac{1}{2}, \frac{1}{2}]$	[6,12,15,21]

Table 8: Wyckoff site: **8h**, site symmetry: 3 . .

No.	position	mapping
1	$[\frac{1}{3}, \frac{2}{3}, z]$	[1,3,5]
2	$[\frac{2}{3}, \frac{1}{3}, z + \frac{1}{2}]$	[2,4,6]
3	$[\frac{2}{3}, \frac{1}{3}, -z]$	[7,9,11]
4	$[\frac{1}{3}, \frac{2}{3}, \frac{1}{2} - z]$	[8,10,12]
5	$[\frac{1}{3}, \frac{2}{3}, z + \frac{1}{2}]$	[13,15,17]
6	$[\frac{2}{3}, \frac{1}{3}, z]$	[14,16,18]
7	$[\frac{2}{3}, \frac{1}{3}, \frac{1}{2} - z]$	[19,21,23]
8	$[\frac{1}{3}, \frac{2}{3}, -z]$	[20,22,24]

Table 9: Wyckoff site: **12i**, site symmetry: $2'$. .

No.	position	mapping
1	$[\frac{1}{2}, 0, z]$	[1,16]
2	$[\frac{1}{2}, \frac{1}{2}, z + \frac{1}{2}]$	[2,17]
3	$[0, \frac{1}{2}, z]$	[3,18]
4	$[\frac{1}{2}, 0, z + \frac{1}{2}]$	[4,13]
5	$[\frac{1}{2}, \frac{1}{2}, z]$	[5,14]
6	$[0, \frac{1}{2}, z + \frac{1}{2}]$	[6,15]
7	$[\frac{1}{2}, 0, -z]$	[7,22]

continued ...

Table 9

No.	position	mapping
8	$[\frac{1}{2}, \frac{1}{2}, \frac{1}{2} - z]$	[8,23]
9	$[0, \frac{1}{2}, -z]$	[9,24]
10	$[\frac{1}{2}, 0, \frac{1}{2} - z]$	[10,19]
11	$[\frac{1}{2}, \frac{1}{2}, -z]$	[11,20]
12	$[0, \frac{1}{2}, \frac{1}{2} - z]$	[12,21]

Table 10: Wyckoff site: 12j, site symmetry: $m..$

No.	position	mapping
1	$[x, y, \frac{3}{4}]$	[1,10]
2	$[x - y, x, \frac{1}{4}]$	[2,11]
3	$[-y, x - y, \frac{3}{4}]$	[3,12]
4	$[-x, -y, \frac{1}{4}]$	[4,7]
5	$[-x + y, -x, \frac{3}{4}]$	[5,8]
6	$[y, -x + y, \frac{1}{4}]$	[6,9]
7	$[x, y, \frac{1}{4}]$	[13,22]
8	$[x - y, x, \frac{3}{4}]$	[14,23]
9	$[-y, x - y, \frac{1}{4}]$	[15,24]
10	$[-x, -y, \frac{3}{4}]$	[16,19]
11	$[-x + y, -x, \frac{1}{4}]$	[17,20]
12	$[y, -x + y, \frac{3}{4}]$	[18,21]

Table 11: Wyckoff site: 12k, site symmetry: $m'..$

No.	position	mapping
1	$[x, y, 0]$	[1,22]
2	$[x - y, x, \frac{1}{2}]$	[2,23]
3	$[-y, x - y, 0]$	[3,24]
4	$[-x, -y, \frac{1}{2}]$	[4,19]
5	$[-x + y, -x, 0]$	[5,20]
6	$[y, -x + y, \frac{1}{2}]$	[6,21]
7	$[-x, -y, 0]$	[7,16]
8	$[-x + y, -x, \frac{1}{2}]$	[8,17]
9	$[y, -x + y, 0]$	[9,18]
10	$[x, y, \frac{1}{2}]$	[10,13]
11	$[x - y, x, 0]$	[11,14]
12	$[-y, x - y, \frac{1}{2}]$	[12,15]

Table 12: Wyckoff site: 241, site symmetry: 1

No.	position	mapping
1	$[x, y, z]$	[1]
2	$[x - y, x, z + \frac{1}{2}]$	[2]
3	$[-y, x - y, z]$	[3]
4	$[-x, -y, z + \frac{1}{2}]$	[4]
5	$[-x + y, -x, z]$	[5]
6	$[y, -x + y, z + \frac{1}{2}]$	[6]
7	$[-x, -y, -z]$	[7]
8	$[-x + y, -x, \frac{1}{2} - z]$	[8]
9	$[y, -x + y, -z]$	[9]
10	$[x, y, \frac{1}{2} - z]$	[10]
11	$[x - y, x, -z]$	[11]
12	$[-y, x - y, \frac{1}{2} - z]$	[12]
13	$[x, y, z + \frac{1}{2}]$	[13]
14	$[x - y, x, z]$	[14]
15	$[-y, x - y, z + \frac{1}{2}]$	[15]
16	$[-x, -y, z]$	[16]
17	$[-x + y, -x, z + \frac{1}{2}]$	[17]
18	$[y, -x + y, z]$	[18]
19	$[-x, -y, \frac{1}{2} - z]$	[19]
20	$[-x + y, -x, -z]$	[20]
21	$[y, -x + y, \frac{1}{2} - z]$	[21]
22	$[x, y, -z]$	[22]
23	$[x - y, x, \frac{1}{2} - z]$	[23]
24	$[-y, x - y, -z]$	[24]