

Table 1: Wyckoff site: **3a**, site symmetry:  $2'22'$

No.	position	mapping
1	$[0, 0, 0]$	$[1, 4, 8, 11]$
2	$[0, 0, \frac{1}{3}]$	$[2, 5, 9, 12]$
3	$[0, 0, \frac{2}{3}]$	$[3, 6, 7, 10]$

Table 2: Wyckoff site: **3b**, site symmetry:  $2'22'$

No.	position	mapping
1	$[0, 0, \frac{1}{2}]$	$[1, 4, 8, 11]$
2	$[0, 0, \frac{5}{6}]$	$[2, 5, 9, 12]$
3	$[0, 0, \frac{1}{6}]$	$[3, 6, 7, 10]$

Table 3: Wyckoff site: **3c**, site symmetry:  $2'22'$

No.	position	mapping
1	$[\frac{1}{2}, 0, 0]$	$[1, 4, 8, 11]$
2	$[0, \frac{1}{2}, \frac{1}{3}]$	$[2, 5, 9, 12]$
3	$[\frac{1}{2}, \frac{1}{2}, \frac{2}{3}]$	$[3, 6, 7, 10]$

Table 4: Wyckoff site: **3d**, site symmetry:  $2'22'$

No.	position	mapping
1	$[\frac{1}{2}, 0, \frac{1}{2}]$	$[1, 4, 8, 11]$
2	$[0, \frac{1}{2}, \frac{5}{6}]$	$[2, 5, 9, 12]$
3	$[\frac{1}{2}, \frac{1}{2}, \frac{1}{6}]$	$[3, 6, 7, 10]$

Table 5: Wyckoff site: **6e**, site symmetry:  $2'..$

No.	position	mapping
1	$[0, 0, z]$	$[1, 8]$
2	$[0, 0, z + \frac{1}{3}]$	$[2, 9]$
3	$[0, 0, z + \frac{2}{3}]$	$[3, 7]$
4	$[0, 0, -z]$	$[4, 11]$
5	$[0, 0, \frac{1}{3} - z]$	$[5, 12]$
6	$[0, 0, \frac{2}{3} - z]$	$[6, 10]$

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

No.	position	mapping
1	$[\frac{1}{2}, 0, z]$	[1,8]
2	$[0, \frac{1}{2}, z + \frac{1}{3}]$	[2,9]
3	$[\frac{1}{2}, \frac{1}{2}, z + \frac{2}{3}]$	[3,7]
4	$[\frac{1}{2}, 0, -z]$	[4,11]
5	$[0, \frac{1}{2}, \frac{1}{3} - z]$	[5,12]
6	$[\frac{1}{2}, \frac{1}{2}, \frac{2}{3} - z]$	[6,10]

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

No.	position	mapping
1	$[x, 0, 0]$	[1,4]
2	$[0, x, \frac{1}{3}]$	[2,5]
3	$[-x, -x, \frac{2}{3}]$	[3,6]
4	$[x, x, \frac{2}{3}]$	[7,10]
5	$[-x, 0, 0]$	[8,11]
6	$[0, -x, \frac{1}{3}]$	[9,12]

Table 8: Wyckoff site: **6h**, site symmetry:  $.2.$ 

No.	position	mapping
1	$[x, 0, \frac{1}{2}]$	[1,4]
2	$[0, x, \frac{5}{6}]$	[2,5]
3	$[-x, -x, \frac{1}{6}]$	[3,6]
4	$[x, x, \frac{1}{6}]$	[7,10]
5	$[-x, 0, \frac{1}{2}]$	[8,11]
6	$[0, -x, \frac{5}{6}]$	[9,12]

Table 9: Wyckoff site: **6i**, site symmetry:  $..2'$ 

No.	position	mapping
1	$[x, 2x, 0]$	[1,11]
2	$[-2x, -x, \frac{1}{3}]$	[2,12]
3	$[x, -x, \frac{2}{3}]$	[3,10]
4	$[-x, -2x, 0]$	[4,8]
5	$[2x, x, \frac{1}{3}]$	[5,9]
6	$[-x, x, \frac{2}{3}]$	[6,7]

Table 10: Wyckoff site:  $6j$ , site symmetry:  $\bar{3}2'$ 

No.	position	mapping
1	$[x, 2x, \frac{1}{2}]$	$[1, 11]$
2	$[-2x, -x, \frac{5}{6}]$	$[2, 12]$
3	$[x, -x, \frac{1}{6}]$	$[3, 10]$
4	$[-x, -2x, \frac{1}{2}]$	$[4, 8]$
5	$[2x, x, \frac{5}{6}]$	$[5, 9]$
6	$[-x, x, \frac{1}{6}]$	$[6, 7]$

Table 11: Wyckoff site:  $12k$ , site symmetry:  $1$ 

No.	position	mapping
1	$[x, y, z]$	$[1]$
2	$[-y, x - y, z + \frac{1}{3}]$	$[2]$
3	$[-x + y, -x, z + \frac{2}{3}]$	$[3]$
4	$[x - y, -y, -z]$	$[4]$
5	$[y, x, \frac{1}{3} - z]$	$[5]$
6	$[-x, -x + y, \frac{2}{3} - z]$	$[6]$
7	$[x - y, x, z + \frac{2}{3}]$	$[7]$
8	$[-x, -y, z]$	$[8]$
9	$[y, -x + y, z + \frac{1}{3}]$	$[9]$
10	$[x, x - y, \frac{2}{3} - z]$	$[10]$
11	$[-x + y, y, -z]$	$[11]$
12	$[-y, -x, \frac{1}{3} - z]$	$[12]$