

Table 1: Wyckoff site: 2a, site symmetry:  $m' . \overline{mm}$ 

No.	position	mapping
1	$[0, 0, 0]$	$[1, 4, 7, 8, 11, 12, 13, 16]$
2	$[\frac{1}{2}, \frac{1}{2}, \frac{1}{2}]$	$[2, 3, 5, 6, 9, 10, 14, 15]$

Table 2: Wyckoff site: 2b, site symmetry:  $m' . \overline{mm}$ 

No.	position	mapping
1	$[0, 0, \frac{1}{2}]$	$[1, 4, 7, 8, 11, 12, 13, 16]$
2	$[\frac{1}{2}, \frac{1}{2}, 0]$	$[2, 3, 5, 6, 9, 10, 14, 15]$

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

No.	position	mapping
1	$[0, \frac{1}{2}, 0]$	$[1, 4, 13, 16]$
2	$[0, \frac{1}{2}, \frac{1}{2}]$	$[2, 3, 14, 15]$
3	$[\frac{1}{2}, 0, \frac{1}{2}]$	$[5, 6, 9, 10]$
4	$[\frac{1}{2}, 0, 0]$	$[7, 8, 11, 12]$

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

No.	position	mapping
1	$[0, \frac{1}{2}, \frac{1}{4}]$	$[1, 4, 14, 15]$
2	$[0, \frac{1}{2}, \frac{3}{4}]$	$[2, 3, 13, 16]$
3	$[\frac{1}{2}, 0, \frac{3}{4}]$	$[5, 6, 11, 12]$
4	$[\frac{1}{2}, 0, \frac{1}{4}]$	$[7, 8, 9, 10]$

Table 5: Wyckoff site: 4e, site symmetry:  $2 . \overline{mm}$ 

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

Table 6: Wyckoff site: **4f**, site symmetry: **m' . 2' m**

No.	position	mapping
1	$[x, x, 0]$	$[1, 8, 11, 16]$
2	$[\frac{1}{2} - x, x + \frac{1}{2}, \frac{1}{2}]$	$[2, 5, 10, 15]$
3	$[x + \frac{1}{2}, \frac{1}{2} - x, \frac{1}{2}]$	$[3, 6, 9, 14]$
4	$[-x, -x, 0]$	$[4, 7, 12, 13]$

Table 7: Wyckoff site: **4g**, site symmetry: **m' . m2'**

No.	position	mapping
1	$[x, -x, 0]$	$[1, 7, 12, 16]$
2	$[x + \frac{1}{2}, x + \frac{1}{2}, \frac{1}{2}]$	$[2, 6, 9, 15]$
3	$[\frac{1}{2} - x, \frac{1}{2} - x, \frac{1}{2}]$	$[3, 5, 10, 14]$
4	$[-x, x, 0]$	$[4, 8, 11, 13]$

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

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

Table 9: Wyckoff site: **8i**, site symmetry: **m' . .**

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

Table 10: Wyckoff site: **8j**, site symmetry:  $\bar{3}m$ 

No.	position	mapping
1	$[x, x, z]$	[1,8]
2	$[\frac{1}{2} - x, x + \frac{1}{2}, z + \frac{1}{2}]$	[2,5]
3	$[x + \frac{1}{2}, \frac{1}{2} - x, z + \frac{1}{2}]$	[3,6]
4	$[-x, -x, z]$	[4,7]
5	$[x + \frac{1}{2}, \frac{1}{2} - x, \frac{1}{2} - z]$	[9,14]
6	$[\frac{1}{2} - x, x + \frac{1}{2}, \frac{1}{2} - z]$	[10,15]
7	$[x, x, -z]$	[11,16]
8	$[-x, -x, -z]$	[12,13]

Table 11: Wyckoff site: **16k**, site symmetry:  $\bar{1}$ 

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