

Table 1: Wyckoff site: 4a, site symmetry:  $\dots 2/m$

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

Table 2: Wyckoff site: 4b, site symmetry:  $\dots 2/m'$

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

Table 3: Wyckoff site: 4c, site symmetry:  $\dots 2/m$

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

Table 4: Wyckoff site: 4d, site symmetry:  $\dots 2/m'$

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

Table 5: Wyckoff site: 8e, site symmetry:  $\dots 2$

No.	position	mapping
1	$[0, 0, z]$	$[1, 4]$
2	$[\frac{1}{2}, \frac{1}{2}, \frac{1}{2} - z]$	$[2, 3]$

*continued ...*

Table 5

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

Table 6: Wyckoff site: **8f**, site symmetry:  $\bar{3}2$ 

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

Table 7: Wyckoff site: **8g**, site symmetry:  $\bar{3}m$ 

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

Table 8: Wyckoff site: **8h**, site symmetry:  $\bar{3}m'$ 

No.	position	mapping
1	$[x, y, \frac{1}{4}]$	$[1, 16]$
2	$[x + \frac{1}{2}, \frac{1}{2} - y, \frac{1}{4}]$	$[2, 15]$
3	$[\frac{1}{2} - x, y + \frac{1}{2}, \frac{1}{4}]$	$[3, 14]$
4	$[-x, -y, \frac{1}{4}]$	$[4, 13]$
5	$[-x, -y, \frac{3}{4}]$	$[5, 12]$

*continued ...*

Table 8

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

Table 9: Wyckoff site: 16i, site symmetry: 1

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