

Table 1: Wyckoff site: 2a, site symmetry:  $-4'2'm$

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

Table 2: Wyckoff site: 2b, site symmetry:  $-4'2'm$

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

Table 3: Wyckoff site: 4c, site symmetry:  $22'2'$ .

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

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

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

Table 5: Wyckoff site: 4e, site symmetry:  $2.mm$

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

Table 6: Wyckoff site: 8f, site symmetry:  $.2'$ .

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

Table 7: Wyckoff site: 8g, site symmetry:  $.2'$ .

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

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

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

Table 9: Wyckoff site: 8i, site symmetry:  $..m$ 

No.	position	mapping
1	$[x, x, z]$	[1, 4]
2	$[-x, -x, z]$	[2, 3]
3	$[x, -x, -z]$	[5, 7]

*continued ...*

Table 9

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

Table 10: Wyckoff site: 16j, site symmetry: 1

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