

Table 1: Wyckoff site: **4a**, site symmetry:  $.2'/m'$ .

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

Table 2: Wyckoff site: **4b**, site symmetry:  $.2'/m'$ .

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

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

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

Table 4: Wyckoff site: **4d**, site symmetry:  $.2/m'$ .

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

Table 5: Wyckoff site: **4e**, site symmetry:  $m'm'2$ 

No.	position	mapping
1	$[\frac{1}{4}, 0, z]$	$[1, 4, 14, 15]$
2	$[\frac{3}{4}, 0, \frac{1}{2} - z]$	$[2, 3, 13, 16]$

*continued ...*

Table 5

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

Table 6: Wyckoff site:  $4\mathbf{f}$ , site symmetry:  $m'm'2$ 

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

Table 7: Wyckoff site:  $8\mathbf{g}$ , site symmetry:  $.2'$ .

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

Table 8: Wyckoff site:  $8\mathbf{h}$ , site symmetry:  $.2$ .

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

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

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

Table 10: Wyckoff site: 8j, site symmetry:  $.m'$ .

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

Table 11: Wyckoff site: 8k, site symmetry:  $m'$ .

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

Table 12: Wyckoff site: 16l, site symmetry: 1

No.	position	mapping
1	$[x, y, z]$	$[1]$
2	$[x + \frac{1}{2}, -y, \frac{1}{2} - z]$	$[2]$
3	$[-x, y, \frac{1}{2} - z]$	$[3]$

*continued ...*

Table 12

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