

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

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

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

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

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

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

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

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

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

No.	position	mapping
1	$[x, \frac{1}{4}, \frac{3}{4}]$	[1, 8, 10, 15]
2	$[x, \frac{1}{4}, \frac{1}{4}]$	[2, 7, 9, 16]

*continued ...*

Table 5

No.	position	mapping
3	$[-x, \frac{3}{4}, \frac{3}{4}]$	[3, 6, 12, 13]
4	$[-x, \frac{3}{4}, \frac{1}{4}]$	[4, 5, 11, 14]

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

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

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

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

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

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

Table 9: Wyckoff site: 8i, site symmetry:  $\dots m$ 

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

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

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

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

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

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

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

*continued ...*

Table 12

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