

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]