

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

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

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

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

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

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

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

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

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

No.	position	mapping
1	$[\frac{1}{4}, \frac{1}{4}, 0]$	[1,4,10,11]
2	$[\frac{3}{4}, \frac{3}{4}, 0]$	[2,3,9,12]

continued ...

Table 5

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

Table 6: Wyckoff site: $4f$, site symmetry: $\dots 2/m$

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

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

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

Table 8: Wyckoff site: $8h$, site symmetry: $\dots 2'$

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

Table 9: Wyckoff site: 8i, site symmetry: $\dots 2$

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

Table 10: Wyckoff site: 8j, site symmetry: $\dots 2$

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

Table 11: Wyckoff site: 8k, site symmetry: $\dots 2$

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

Table 12: Wyckoff site: 8l, site symmetry: $\dots m$

No.	position	mapping
1	$[x, y, 0]$	[1,4]
2	$[-x, -y, 0]$	[2,3]
3	$[x, -y, \frac{1}{2}]$	[5,8]

continued ...

Table 12

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

Table 13: Wyckoff site: 16m, site symmetry: 1

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