

Table 1: Wyckoff site: 2a, site symmetry: 422

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

Table 2: Wyckoff site: 2b, site symmetry: 422

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

Table 3: Wyckoff site: 2c, site symmetry: $-4'2m'$

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

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

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

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

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

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

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

Table 7: Wyckoff site: **4g**, site symmetry: $4\dots$

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

Table 8: Wyckoff site: **4h**, site symmetry: $2.m'm'$

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

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

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

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

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

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

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

Table 12: Wyckoff site: 8l, site symmetry: $\dots 2$.

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

Table 13: Wyckoff site: 8m, site symmetry: $\dots m'$

No.	position	mapping
1	$[x, -x, z]$	[1,15]
2	$[x + \frac{1}{2}, x, z]$	[2,13]
3	$[-x, \frac{1}{2} - x, z]$	[3,12]

continued ...

Table 13

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

Table 14: Wyckoff site: 16n, site symmetry: 1

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