

Table 1: Wyckoff site: 4a, site symmetry: 222

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

Table 2: Wyckoff site: 4b, site symmetry: 222

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

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

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

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

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

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

No.	position	mapping
1	$[\frac{1}{2}, \frac{1}{2}, 0]$	[1,5,12,16]
2	$[\frac{1}{2}, 0, \frac{1}{2}]$	[2,6,11,15]

continued ...

Table 5

No.	position	mapping
3	$[0, \frac{1}{2}, \frac{1}{2}]$	$[3, 7, 10, 14]$
4	$[0, 0, 0]$	$[4, 8, 9, 13]$

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

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

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

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

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

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

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

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

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

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

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

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

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

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

continued ...

Table 12

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

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

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