

Table 1: Wyckoff site: 2a, site symmetry: $4221'$

No.	position	mapping
1	$[\frac{1}{4}, \frac{1}{4}, 0]$	[1, 2, 3, 4, 5, 6, 7, 8, 17, 18, 19, 20, 21, 22, 23, 24]
2	$[\frac{3}{4}, \frac{3}{4}, 0]$	[9, 10, 11, 12, 13, 14, 15, 16, 25, 26, 27, 28, 29, 30, 31, 32]

Table 2: Wyckoff site: 2b, site symmetry: $4221'$

No.	position	mapping
1	$[\frac{1}{4}, \frac{1}{4}, \frac{1}{2}]$	[1, 2, 3, 4, 5, 6, 7, 8, 17, 18, 19, 20, 21, 22, 23, 24]
2	$[\frac{3}{4}, \frac{3}{4}, \frac{1}{2}]$	[9, 10, 11, 12, 13, 14, 15, 16, 25, 26, 27, 28, 29, 30, 31, 32]

Table 3: Wyckoff site: 2c, site symmetry: $-42m1'$

No.	position	mapping
1	$[\frac{3}{4}, \frac{1}{4}, 0]$	[1, 4, 5, 6, 10, 11, 15, 16, 17, 20, 21, 22, 26, 27, 31, 32]
2	$[\frac{1}{4}, \frac{3}{4}, 0]$	[2, 3, 7, 8, 9, 12, 13, 14, 18, 19, 23, 24, 25, 28, 29, 30]

Table 4: Wyckoff site: 2d, site symmetry: $-42m1'$

No.	position	mapping
1	$[\frac{3}{4}, \frac{1}{4}, \frac{1}{2}]$	[1, 4, 5, 6, 10, 11, 15, 16, 17, 20, 21, 22, 26, 27, 31, 32]
2	$[\frac{1}{4}, \frac{3}{4}, \frac{1}{2}]$	[2, 3, 7, 8, 9, 12, 13, 14, 18, 19, 23, 24, 25, 28, 29, 30]

Table 5: Wyckoff site: 4e, site symmetry: $\dots 2/m1'$

No.	position	mapping
1	[0, 0, 0]	[1, 7, 9, 15, 17, 23, 25, 31]
2	$[\frac{1}{2}, 0, 0]$	[2, 5, 10, 13, 18, 21, 26, 29]
3	$[0, \frac{1}{2}, 0]$	[3, 4, 11, 12, 19, 20, 27, 28]
4	$[\frac{1}{2}, \frac{1}{2}, 0]$	[6, 8, 14, 16, 22, 24, 30, 32]

Table 6: Wyckoff site: 4f, site symmetry: $\dots 2/m1'$

No.	position	mapping
1	$[0, 0, \frac{1}{2}]$	$[1, 7, 9, 15, 17, 23, 25, 31]$
2	$[\frac{1}{2}, 0, \frac{1}{2}]$	$[2, 5, 10, 13, 18, 21, 26, 29]$
3	$[0, \frac{1}{2}, \frac{1}{2}]$	$[3, 4, 11, 12, 19, 20, 27, 28]$
4	$[\frac{1}{2}, \frac{1}{2}, \frac{1}{2}]$	$[6, 8, 14, 16, 22, 24, 30, 32]$

Table 7: Wyckoff site: 4g, site symmetry: $4 \dots 1'$

No.	position	mapping
1	$[\frac{1}{4}, \frac{1}{4}, z]$	$[1, 2, 3, 6, 17, 18, 19, 22]$
2	$[\frac{1}{4}, \frac{1}{4}, -z]$	$[4, 5, 7, 8, 20, 21, 23, 24]$
3	$[\frac{3}{4}, \frac{3}{4}, -z]$	$[9, 10, 11, 14, 25, 26, 27, 30]$
4	$[\frac{3}{4}, \frac{3}{4}, z]$	$[12, 13, 15, 16, 28, 29, 31, 32]$

Table 8: Wyckoff site: 4h, site symmetry: $2 \dots mm1'$

No.	position	mapping
1	$[\frac{3}{4}, \frac{1}{4}, z]$	$[1, 6, 15, 16, 17, 22, 31, 32]$
2	$[\frac{1}{4}, \frac{3}{4}, z]$	$[2, 3, 12, 13, 18, 19, 28, 29]$
3	$[\frac{3}{4}, \frac{1}{4}, -z]$	$[4, 5, 10, 11, 20, 21, 26, 27]$
4	$[\frac{1}{4}, \frac{3}{4}, -z]$	$[7, 8, 9, 14, 23, 24, 25, 30]$

Table 9: Wyckoff site: 8i, site symmetry: $\dots 21'$

No.	position	mapping
1	$[x, x, 0]$	$[1, 7, 17, 23]$
2	$[\frac{1}{2} - x, x, 0]$	$[2, 5, 18, 21]$
3	$[x, \frac{1}{2} - x, 0]$	$[3, 4, 19, 20]$
4	$[\frac{1}{2} - x, \frac{1}{2} - x, 0]$	$[6, 8, 22, 24]$
5	$[-x, -x, 0]$	$[9, 15, 25, 31]$
6	$[x + \frac{1}{2}, -x, 0]$	$[10, 13, 26, 29]$
7	$[-x, x + \frac{1}{2}, 0]$	$[11, 12, 27, 28]$
8	$[x + \frac{1}{2}, x + \frac{1}{2}, 0]$	$[14, 16, 30, 32]$

Table 10: Wyckoff site: 8j, site symmetry: $\dots 21'$

No.	position	mapping
1	$[x, x, \frac{1}{2}]$	[1, 7, 17, 23]
2	$[\frac{1}{2} - x, x, \frac{1}{2}]$	[2, 5, 18, 21]
3	$[x, \frac{1}{2} - x, \frac{1}{2}]$	[3, 4, 19, 20]
4	$[\frac{1}{2} - x, \frac{1}{2} - x, \frac{1}{2}]$	[6, 8, 22, 24]
5	$[-x, -x, \frac{1}{2}]$	[9, 15, 25, 31]
6	$[x + \frac{1}{2}, -x, \frac{1}{2}]$	[10, 13, 26, 29]
7	$[-x, x + \frac{1}{2}, \frac{1}{2}]$	[11, 12, 27, 28]
8	$[x + \frac{1}{2}, x + \frac{1}{2}, \frac{1}{2}]$	[14, 16, 30, 32]

Table 11: Wyckoff site: 8k, site symmetry: $\dots 2.1'$

No.	position	mapping
1	$[x, \frac{1}{4}, 0]$	[1, 4, 17, 20]
2	$[\frac{1}{4}, x, 0]$	[2, 7, 18, 23]
3	$[\frac{1}{4}, \frac{1}{2} - x, 0]$	[3, 8, 19, 24]
4	$[\frac{1}{2} - x, \frac{1}{4}, 0]$	[5, 6, 21, 22]
5	$[-x, \frac{3}{4}, 0]$	[9, 12, 25, 28]
6	$[\frac{3}{4}, -x, 0]$	[10, 15, 26, 31]
7	$[\frac{3}{4}, x + \frac{1}{2}, 0]$	[11, 16, 27, 32]
8	$[x + \frac{1}{2}, \frac{3}{4}, 0]$	[13, 14, 29, 30]

Table 12: Wyckoff site: 8l, site symmetry: $\dots 2.1'$

No.	position	mapping
1	$[x, \frac{1}{4}, \frac{1}{2}]$	[1, 4, 17, 20]
2	$[\frac{1}{4}, x, \frac{1}{2}]$	[2, 7, 18, 23]
3	$[\frac{1}{4}, \frac{1}{2} - x, \frac{1}{2}]$	[3, 8, 19, 24]
4	$[\frac{1}{2} - x, \frac{1}{4}, \frac{1}{2}]$	[5, 6, 21, 22]
5	$[-x, \frac{3}{4}, \frac{1}{2}]$	[9, 12, 25, 28]
6	$[\frac{3}{4}, -x, \frac{1}{2}]$	[10, 15, 26, 31]
7	$[\frac{3}{4}, x + \frac{1}{2}, \frac{1}{2}]$	[11, 16, 27, 32]
8	$[x + \frac{1}{2}, \frac{3}{4}, \frac{1}{2}]$	[13, 14, 29, 30]

Table 13: Wyckoff site: 8m, site symmetry: $\dots m1'$

No.	position	mapping
1	$[x, -x, z]$	[1, 15, 17, 31]
2	$[x + \frac{1}{2}, x, z]$	[2, 13, 18, 29]
3	$[-x, \frac{1}{2} - x, z]$	[3, 12, 19, 28]

continued ...

Table 13

No.	position	mapping
4	$[x, x + \frac{1}{2}, -z]$	[4, 11, 20, 27]
5	$[\frac{1}{2} - x, -x, -z]$	[5, 10, 21, 26]
6	$[\frac{1}{2} - x, x + \frac{1}{2}, z]$	[6, 16, 22, 32]
7	$[-x, x, -z]$	[7, 9, 23, 25]
8	$[x + \frac{1}{2}, \frac{1}{2} - x, -z]$	[8, 14, 24, 30]

Table 14: Wyckoff site: 16n, site symmetry: 11'

No.	position	mapping
1	$[x, y, z]$	[1, 17]
2	$[\frac{1}{2} - y, x, z]$	[2, 18]
3	$[y, \frac{1}{2} - x, z]$	[3, 19]
4	$[x, \frac{1}{2} - y, -z]$	[4, 20]
5	$[\frac{1}{2} - x, y, -z]$	[5, 21]
6	$[\frac{1}{2} - x, \frac{1}{2} - y, z]$	[6, 22]
7	$[y, x, -z]$	[7, 23]
8	$[\frac{1}{2} - y, \frac{1}{2} - x, -z]$	[8, 24]
9	$[-x, -y, -z]$	[9, 25]
10	$[y + \frac{1}{2}, -x, -z]$	[10, 26]
11	$[-y, x + \frac{1}{2}, -z]$	[11, 27]
12	$[-x, y + \frac{1}{2}, z]$	[12, 28]
13	$[x + \frac{1}{2}, -y, z]$	[13, 29]
14	$[x + \frac{1}{2}, y + \frac{1}{2}, -z]$	[14, 30]
15	$[-y, -x, z]$	[15, 31]
16	$[y + \frac{1}{2}, x + \frac{1}{2}, z]$	[16, 32]