

Table 1: Wyckoff site: 4a, site symmetry: $2.221'$

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

Table 2: Wyckoff site: 4b, site symmetry: $-4..1'$

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

Table 3: Wyckoff site: 4c, site symmetry: $..2/m1'$

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

Table 4: Wyckoff site: 4d, site symmetry: $..2/m1'$

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

Table 5: Wyckoff site: 4e, site symmetry: $2.mm1'$

No.	position	mapping
1	$[\frac{1}{4}, \frac{1}{4}, z]$	[1, 6, 15, 16, 17, 22, 31, 32]
2	$[\frac{1}{4}, \frac{1}{4}, z + \frac{1}{2}]$	[2, 3, 12, 13, 18, 19, 28, 29]

continued ...

Table 5

No.	position	mapping
3	$[\frac{3}{4}, \frac{3}{4}, \frac{1}{2} - z]$	[4, 5, 10, 11, 20, 21, 26, 27]
4	$[\frac{3}{4}, \frac{3}{4}, -z]$	[7, 8, 9, 14, 23, 24, 25, 30]

Table 6: Wyckoff site: 8f, site symmetry: $2..1'$

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

Table 7: Wyckoff site: 8g, site symmetry: $..21'$

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

Table 8: Wyckoff site: 8h, site symmetry: $..21'$

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

Table 9: Wyckoff site: 8i, site symmetry: $\bar{4}2m$

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

Table 10: Wyckoff site: 16j, site symmetry: $\bar{4}2m$

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