

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

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

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

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

Table 3: Wyckoff site: 2c, site symmetry: $m.mm1'$

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

Table 4: Wyckoff site: 2d, site symmetry: $m.mm1'$

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

Table 5: Wyckoff site: 4e, site symmetry: $4..1'$

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

Table 6: Wyckoff site: 4f, site symmetry: $2.\text{mm}1'$

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

Table 7: Wyckoff site: 4g, site symmetry: $\text{m}.2\text{m}1'$

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

Table 8: Wyckoff site: 4h, site symmetry: $\text{m}.2\text{m}1'$

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

Table 9: Wyckoff site: 8i, site symmetry: $\text{m}..1'$

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

Table 10: Wyckoff site: 8j, site symmetry: $m..1'$

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

Table 11: Wyckoff site: 8k, site symmetry: $..m1'$

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

Table 12: Wyckoff site: 16l, site symmetry: $11'$

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