

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: $2.mm1'$

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: $m.2m1'$

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: $m.2m1'$

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: $m..1'$

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]