

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

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

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

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

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

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

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

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

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

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

Table 6: Wyckoff site: 4f, site symmetry:  $2.m'm'$ 

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

Table 7: Wyckoff site: 4g, site symmetry:  $m'.2m'$ 

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

Table 8: Wyckoff site: 4h, site symmetry:  $m'.2m'$ 

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

Table 9: Wyckoff site: 8i, site symmetry:  $m'..$ 

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

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

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

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

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

Table 12: Wyckoff site:  $16l$ , site symmetry:  $1$ 

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