

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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