

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

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

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

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

Table 3: Wyckoff site: 2c, site symmetry: $4'm'm$

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

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

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

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

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

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

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

Table 7: Wyckoff site: $8g$, site symmetry: $..2'$

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

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

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

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

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

continued ...

Table 9

No.	position	mapping
8	$[y, \frac{1}{4}, z]$	[8,10]

Table 10: Wyckoff site: 8j, site symmetry: $\bar{4}2m$

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

Table 11: Wyckoff site: 16k, site symmetry: 1

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