

Table 1: Wyckoff site: 2a, site symmetry: $-6'$..

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

Table 2: Wyckoff site: 2b, site symmetry: $-3'$..

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

Table 3: Wyckoff site: 2c, site symmetry: $-6'$..

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

Table 4: Wyckoff site: 2d, site symmetry: $-6'$..

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

Table 5: Wyckoff site: 4e, site symmetry: $3'$..

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

Table 6: Wyckoff site: 4f, site symmetry: $3..$

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

Table 7: Wyckoff site: 6g, site symmetry: -1

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

Table 8: Wyckoff site: 6h, site symmetry: $m'..$

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

Table 9: Wyckoff site: 12i, site symmetry: 1

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

continued ...

Table 9

No.	position	mapping
12	$[-y, x - y, \frac{1}{2} - z]$	[12]