

Table 1: Wyckoff site: 1a, site symmetry: 622

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

Table 2: Wyckoff site: 1b, site symmetry: 622

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

Table 3: Wyckoff site: 2c, site symmetry: 3.2

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

Table 4: Wyckoff site: 2d, site symmetry: 3.2

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

Table 5: Wyckoff site: 2e, site symmetry: 6..

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

Table 6: Wyckoff site: 3f, site symmetry: 222

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

Table 7: Wyckoff site:  $3g$ , site symmetry:  $222$ 

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

Table 8: Wyckoff site:  $4h$ , site symmetry:  $3..$ 

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

Table 9: Wyckoff site:  $6i$ , site symmetry:  $2..$ 

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

Table 10: Wyckoff site:  $6j$ , site symmetry:  $.2.$ 

No.	position	mapping
1	$[x, 0, 0]$	[1,7]
2	$[x, x, 0]$	[2,10]
3	$[0, x, 0]$	[3,8]
4	$[-x, 0, 0]$	[4,11]
5	$[-x, -x, 0]$	[5,9]
6	$[0, -x, 0]$	[6,12]

Table 11: Wyckoff site:  $6k$ , site symmetry:  $.2.$ 

No.	position	mapping
1	$[x, 0, \frac{1}{2}]$	[1,7]

*continued ...*

Table 11

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

Table 12: Wyckoff site: 6l, site symmetry:  $\dots 2$ 

No.	position	mapping
1	$[x, -x, 0]$	[1, 12]
2	$[2x, x, 0]$	[2, 7]
3	$[x, 2x, 0]$	[3, 10]
4	$[-x, x, 0]$	[4, 8]
5	$[-2x, -x, 0]$	[5, 11]
6	$[-x, -2x, 0]$	[6, 9]

Table 13: Wyckoff site: 6m, site symmetry:  $\dots 2$ 

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

Table 14: Wyckoff site: 12n, site symmetry: 1

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

*continued ...*

Table 14

No.	position	mapping
11	$[-x + y, y, -z]$	[11]
12	$[-y, -x, -z]$	[12]