

Table 1: Wyckoff site: 2a, site symmetry:  $2221'$

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

Table 2: Wyckoff site: 2b, site symmetry:  $2221'$

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

Table 3: Wyckoff site: 2c, site symmetry:  $2221'$

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

Table 4: Wyckoff site: 2d, site symmetry:  $2221'$

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

Table 5: Wyckoff site: 4e, site symmetry:  $-11'$

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

Table 6: Wyckoff site: 4f, site symmetry:  $-11'$ 

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

Table 7: Wyckoff site: 4g, site symmetry:  $2..1'$ 

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

Table 8: Wyckoff site: 4h, site symmetry:  $2..1'$ 

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

Table 9: Wyckoff site: 4i, site symmetry:  $.2.1'$ 

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

Table 10: Wyckoff site: 4j, site symmetry:  $.2.1'$ 

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

Table 11: Wyckoff site: 4k, site symmetry:  $\dots 21'$ 

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

Table 12: Wyckoff site: 4l, site symmetry:  $\dots 21'$ 

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

Table 13: Wyckoff site: 8m, site symmetry:  $11'$ 

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