

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

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

Table 2: Wyckoff site: 2b, site symmetry:  $-4..1'$

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

Table 3: Wyckoff site: 2c, site symmetry:  $2.221'$

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

Table 4: Wyckoff site: 2d, site symmetry:  $2.221'$

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

Table 5: Wyckoff site: 4e, site symmetry:  $2..1'$

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

Table 6: Wyckoff site: **4f**, site symmetry:  $\bar{3}21'$ 

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

Table 7: Wyckoff site: **4g**, site symmetry:  $\bar{3}21'$ 

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

Table 8: Wyckoff site: **4h**, site symmetry:  $2\bar{3}1'$ 

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

Table 9: Wyckoff site: **8i**, site symmetry:  $11'$ 

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