

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

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

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

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

Table 3: Wyckoff site: 2c, site symmetry: 2.22

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

Table 4: Wyckoff site: 2d, site symmetry: 2.22

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

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

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

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

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

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

No.	position	mapping
1	$[x, x + \frac{1}{2}, 0]$	[1,3]
2	$[-x, \frac{1}{2} - x, 0]$	[2,4]
3	$[x + \frac{1}{2}, -x, 0]$	[5,8]
4	$[\frac{1}{2} - x, x, 0]$	[6,7]

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

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

Table 9: Wyckoff site: $8i$, site symmetry: 1

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