MSG No. 46.246 I_cma2 [Type IV, orthorhombic]

Table 1: Wyckoff site: `4a`, site symmetry: `mm'2'`

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

Table 2: Wyckoff site: `4b`, site symmetry: `mm'2'`

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

Table 3: Wyckoff site: `8c`, site symmetry: `..2`

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

Table 4: Wyckoff site: `8d`, site symmetry: `m..`

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

Table 5: Wyckoff site: `8e`, site symmetry: `.m'.`

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

Table 6: Wyckoff site: `16f`, site symmetry: `1`

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