MSG No. 17.11 P_a222_1 [Type IV, orthorhombic]

Table 1: Wyckoff site: `4a`, site symmetry: `2..`

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

Table 2: Wyckoff site: `4b`, site symmetry: `2..`

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

Table 3: Wyckoff site: `4c`, site symmetry: `.2.`

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

Table 4: Wyckoff site: `4d`, site symmetry: `.2'.`

No.	position	mapping
1	$\left[\frac{1}{4},\, y,\, \frac{1}{4}\right]$	`[1,7]`
2	$\left[\frac{1}{4},\, -y,\, \frac{3}{4}\right]$	`[2,8]`
3	$\left[\frac{3}{4},\, y,\, \frac{1}{4}\right]$	`[3,5]`
4	$\left[\frac{3}{4},\, -y,\, \frac{3}{4}\right]$	`[4,6]`

Table 5: Wyckoff site: `8e`, site symmetry: `1`

No.	position	mapping
1	$[x,\, y,\, z]$	`[1]`
2	$[x,\, -y,\, -z]$	`[2]`

continued ...

Table 5

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