MSG No. 105.211 $P4_2mc$ [Type I, tetragonal]

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

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

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

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

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

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

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

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

Table 5: Wyckoff site: `4e`, site symmetry: `.m.`.

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

Table 6: Wyckoff site: 8f, site symmetry: 1

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

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