MSG No. 105.213 $P4'_2m'c$ [Type III, tetragonal]

Table 1: Wyckoff site: `2a`, site symmetry: `2m'm'`.

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

Table 2: Wyckoff site: `2b`, site symmetry: `2m'm'`.

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

Table 3: Wyckoff site: `2c`, site symmetry: `2m'm'`.

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

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

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

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

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

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

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