MSG No. 158.59 $P3c'1$ [Type III, trigonal]

Table 1: Wyckoff site: `2a`, site symmetry: `3..`

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

Table 2: Wyckoff site: `2b`, site symmetry: `3..`

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

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

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

Table 4: Wyckoff site: `6d`, site symmetry: `1`

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