MSG No. 186.204 $P6_3mc1'$ [Type II, hexagonal]

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

No.	position	mapping
1	$[0,\ 0,\ z]$	`[1,3,5,7,8,9,13,15,17,19,20,21]`
2	$\left[0,\ 0,\ z+\frac{1}{2}\right]$	`[2,4,6,10,11,12,14,16,18,22,23,24]`

Table 2: Wyckoff site: `2b`, site symmetry: `3m.1'`

No.	position	mapping
1	$\left[\frac{1}{3},\ \frac{2}{3},\ z\right]$	`[1,3,5,7,8,9,13,15,17,19,20,21]`
2	$\left[\frac{2}{3},\ \frac{1}{3},\ z+\frac{1}{2}\right]$	`[2,4,6,10,11,12,14,16,18,22,23,24]`

Table 3: Wyckoff site: `6c`, site symmetry: `.m.1'`

No.	position	mapping
1	$[x,\ -x,\ z]$	`[1,8,13,20]`
2	$\left[2x,\ x,\ z+\frac{1}{2}\right]$	`[2,11,14,23]`
3	$[x,\ 2x,\ z]$	`[3,9,15,21]`
4	$\left[-x,\ x,\ z+\frac{1}{2}\right]$	`[4,12,16,24]`
5	$[-2x,\ -x,\ z]$	`[5,7,17,19]`
6	$\left[-x,\ -2x,\ z+\frac{1}{2}\right]$	`[6,10,18,22]`

Table 4: Wyckoff site: `12d`, site symmetry: `11'`

No.	position	mapping
1	$[x,\ y,\ z]$	`[1,13]`
2	$\left[x-y,\ x,\ z+\frac{1}{2}\right]$	`[2,14]`
3	$[-y,\ x-y,\ z]$	`[3,15]`
4	$\left[-x,\ -y,\ z+\frac{1}{2}\right]$	`[4,16]`
5	$[-x+y,\ -x,\ z]$	`[5,17]`
6	$\left[y,\ -x+y,\ z+\frac{1}{2}\right]$	`[6,18]`
7	$[-x+y,\ y,\ z]$	`[7,19]`
8	$[-y,\ -x,\ z]$	`[8,20]`
9	$[x,\ x-y,\ z]$	`[9,21]`
10	$\left[-x,\ -x+y,\ z+\frac{1}{2}\right]$	`[10,22]`
11	$\left[x-y,\ -y,\ z+\frac{1}{2}\right]$	`[11,23]`
12	$\left[y,\ x,\ z+\frac{1}{2}\right]$	`[12,24]`