MSG No. 157.54 $P31m1'$ [Type II, trigonal]

Table 1: Wyckoff site: `1a`, site symmetry: `3.m1'`

No.	position	mapping
1	$[0, 0, z]$	`[1,2,3,4,5,6,7,8,9,10,11,12]`

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

No.	position	mapping
1	$\left[\frac{1}{3}, \frac{2}{3}, z\right]$	`[1,2,3,7,8,9]`
2	$\left[\frac{2}{3}, \frac{1}{3}, z\right]$	`[4,5,6,10,11,12]`

Table 3: Wyckoff site: `3c`, site symmetry: `..m1'`

No.	position	mapping
1	$[x, 0, z]$	`[1,5,7,11]`
2	$[0, x, z]$	`[2,6,8,12]`
3	$[-x, -x, z]$	`[3,4,9,10]`

Table 4: Wyckoff site: `6d`, site symmetry: `11'`

No.	position	mapping
1	$[x, y, z]$	`[1,7]`
2	$[-y, x - y, z]$	`[2,8]`
3	$[-x + y, -x, z]$	`[3,9]`
4	$[-x, -x + y, z]$	`[4,10]`
5	$[x - y, -y, z]$	`[5,11]`
6	$[y, x, z]$	`[6,12]`