MSG No. 172.126 $P6_41'$ [Type II, hexagonal]

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

No.	position	mapping
1	$[0, 0, z]$	[1,4,7,10]
2	$\left[0, 0, z + \frac{2}{3}\right]$	[2,5,8,11]
3	$\left[0, 0, z + \frac{1}{3}\right]$	[3,6,9,12]

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

No.	position	mapping
1	$\left[\frac{1}{2}, \frac{1}{2}, z\right]$	[1,4,7,10]
2	$\left[0, \frac{1}{2}, z + \frac{2}{3}\right]$	[2,5,8,11]
3	$\left[\frac{1}{2}, 0, z + \frac{1}{3}\right]$	[3,6,9,12]

Table 3: Wyckoff site: 6c, site symmetry: 11'

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