MSG No. 184.191 $P6cc$ [Type I, hexagonal]

Table 1: Wyckoff site: 2a, site symmetry: 6..

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

Table 2: Wyckoff site: 4b, site symmetry: 3..

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

Table 3: Wyckoff site: 6c, site symmetry: 2..

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

Table 4: Wyckoff site: 12d, site symmetry: 1

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