MSG No. 183.189 $P6m'm'$ [Type III, hexagonal]

Table 1: Wyckoff site: 1a, site symmetry: 6m'm'

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: 3m'.

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

Table 3: Wyckoff site: 3c, site symmetry: 2m'm'

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

Table 4: Wyckoff site: 6d, site symmetry: ..m'

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

Table 5: Wyckoff site: 6e, site symmetry: .m'.

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

Table 6: Wyckoff site: **12f**, 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	$[-x + y, y, z]$	[7]
8	$[-y, -x, z]$	[8]
9	$[x, x - y, z]$	[9]
10	$[-x, -x + y, z]$	[10]
11	$[x - y, -y, z]$	[11]
12	$[y, x, z]$	[12]