MPG No. 37.4.154 $\bar{6}'m2'$ (-6'2'm setting) [Type III, hexagonal]

Table 1: Wyckoff site: `1o`, site symmetry: `-6'2'm`

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

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

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

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

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

Table 4: Wyckoff site: `6c`, site symmetry: `..m`

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

Table 5: Wyckoff site: `6d`, site symmetry: `m'..`

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

Table 6: Wyckoff site: 12e, site symmetry: 1

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