MPG No. 20.1.71 $\bar{3}m$ (-3m1 setting) [Type I, trigonal]

Table 1: Wyckoff site: `1o`, site symmetry: `-3m1`

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: `3m.`

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

Table 3: Wyckoff site: `6b`, site symmetry: `.2.`

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

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

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

Table 5: Wyckoff site: `12d`, site symmetry: `1`

No.	position	mapping
1	$[x, y, z]$	`[1]`
2	$[-y, x - y, z]$	`[2]`
3	$[-x + y, -x, z]$	`[3]`

continued ...

Table 5

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

4	$[y,\ x,\ -z]$	[5]
5	$[x-y,\ -y,\ -z]$	[4]
6	$[-x,\ -x+y,\ -z]$	[6]
7	$[-x,\ -y,\ -z]$	[7]
8	$[y,\ -x+y,\ -z]$	[8]