MPG No. 20.3.73 $\bar{3}'m$ (-3'm1 setting) [Type III, trigonal]

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

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	$[0, 0, z]$	`[1,2,3,4,5,6]`
2	$[0, 0, -z]$	`[7,8,9,10,11,12]`

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

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

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

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

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	$[y,\, x,\, -z]$	[8]
5	$[x-y,\, -y,\, -z]$	[7]
6	$[-x,\, -x+y,\, -z]$	[9]
7	$[-x,\, -y,\, -z]$	[10]
8	$[y,\, -x+y,\, -z]$	[11]
9	$[x-y,\, x,\, -z]$	[12]
10	$[-y,\, -x,\, z]$	[5]
11	$[-x+y,\, y,\, z]$	[4]
12	$[x,\, x-y,\, z]$	[6]