MPG No. 20.2.72 $\bar{3}m1'$ (-3m11' setting) [Type II, trigonal]

Table 1: Wyckoff site: `1o`, site symmetry: `-3m11'`

No.	position	mapping
1	[0, 0, 0]	`[1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24]`

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

No.	position	mapping
1	[0, 0, z]	`[1,2,3,10,11,12,13,14,15,22,23,24]`
2	[0, 0, $-z$]	`[4,5,6,7,8,9,16,17,18,19,20,21]`

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

No.	position	mapping
1	[x, 0, 0]	`[1,4,13,16]`
2	[0, x, 0]	`[2,5,14,17]`
3	[$-x$, $-x$, 0]	`[3,6,15,18]`
4	[$-x$, 0, 0]	`[7,10,19,22]`
5	[0, $-x$, 0]	`[8,11,20,23]`
6	[x, x, 0]	`[9,12,21,24]`

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

No.	position	mapping
1	[x, $-x$, z]	`[1,11,13,23]`
2	[x, $2x$, z]	`[2,12,14,24]`
3	[$-2x$, $-x$, z]	`[3,10,15,22]`
4	[$-x$, x, $-z$]	`[5,7,17,19]`
5	[$2x$, x, $-z$]	`[4,9,16,21]`
6	[$-x$, $-2x$, $-z$]	`[6,8,18,20]`

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

No.	position	mapping
1	[x, y, z]	`[1,13]`
2	[$-y$, $x-y$, z]	`[2,14]`
3	[$-x+y$, $-x$, z]	`[3,15]`

continued ...

Table 5

No.	position	mapping
4	$[y,\, x,\, -z]$	`[5,17]`
5	$[x-y,\, -y,\, -z]$	`[4,16]`
6	$[-x,\, -x+y,\, -z]$	`[6,18]`
7	$[-x,\, -y,\, -z]$	`[7,19]`
8	$[y,\, -x+y,\, -z]$	`[8,20]`
9	$[x-y,\, x,\, -z]$	`[9,21]`
10	$[-y,\, -x,\, z]$	`[11,23]`
11	$[-x+y,\, y,\, z]$	`[10,22]`
12	$[x,\, x-y,\, z]$	`[12,24]`