MPG No. 36.2.145 $\bar{3}m1'$ (-31m1' setting) [Type II, trigonal]

Table 1: Wyckoff site: `1o`, site symmetry: `-31m1'`

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: `3.m`

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	$[x, -x, 0]$	`[1,4,13,16]`
2	$[x, 2x, 0]$	`[2,6,14,18]`
3	$[-2x, -x, 0]$	`[3,5,15,17]`
4	$[-x, x, 0]$	`[7,10,19,22]`
5	$[-x, -2x, 0]$	`[8,12,20,24]`
6	$[2x, x, 0]$	`[9,11,21,23]`

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

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

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	$[-y,\ -x,\ -z]$	`[4,16]`
5	$[-x+y,\ y,\ -z]$	`[5,17]`
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	$[y,\ x,\ z]$	`[10,22]`
11	$[x-y,\ -y,\ z]$	`[11,23]`
12	$[-x,\ -x+y,\ z]$	`[12,24]`