

PG No. 36 $D_{3d}(1)$ $\bar{3}m$ (-31m setting) [trigonal]

Table 1: Wyckoff site: 1o, site symmetry: $\bar{3}.m$

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

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

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

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

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

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