PG No. 35 $C_{3v}(1)$ $3m$ (31m setting)   [trigonal]

* Wyckoff site: `1a`, site symmetry: `3.m`

Table 1: Wyckoff bond: `1a@1a`

No.	vector	center	mapping
1	$[0, 0, Z]$	$[0, 0, z]$	`[1,2,3,4,5,6]`

Table 2: Wyckoff bond: `3b@1a`

No.	vector	center	mapping
1	$[X, 0, Z]$	$[0, 0, z]$	`[1,5]`
2	$[0, X, Z]$	$[0, 0, z]$	`[2,4]`
3	$[-X, -X, Z]$	$[0, 0, z]$	`[3,6]`

Table 3: Wyckoff bond: `3c@1a`

No.	vector	center	mapping
1	$[X, -X, 0]$	$[0, 0, z]$	`[1,-4]`
2	$[X, 2X, 0]$	$[0, 0, z]$	`[2,-6]`
3	$[-2X, -X, 0]$	$[0, 0, z]$	`[3,-5]`

Table 4: Wyckoff bond: `6d@1a`

No.	vector	center	mapping
1	$[X, Y, Z]$	$[0, 0, z]$	`[1]`
2	$[-Y, X - Y, Z]$	$[0, 0, z]$	`[2]`
3	$[-X + Y, -X, Z]$	$[0, 0, z]$	`[3]`
4	$[Y, X, Z]$	$[0, 0, z]$	`[4]`
5	$[X - Y, -Y, Z]$	$[0, 0, z]$	`[5]`
6	$[-X, -X + Y, Z]$	$[0, 0, z]$	`[6]`

* Wyckoff site: `3b`, site symmetry: `..m`

Table 5: Wyckoff bond: `3a@3b`

No.	vector	center	mapping
1	$[X, 0, Z]$	$[x, 0, z]$	`[1,5]`
2	$[0, X, Z]$	$[0, x, z]$	`[2,4]`
3	$[-X, -X, Z]$	$[-x, -x, z]$	`[3,6]`

Table 6: Wyckoff bond: 3b@3b

No.	vector	center	mapping
1	$[X, 2X, 0]$	$[x, 0, z]$	[1,-5]
2	$[-2X, -X, 0]$	$[0, x, z]$	[2,-4]
3	$[X, -X, 0]$	$[-x, -x, z]$	[3,-6]

Table 7: Wyckoff bond: 6c@3b

No.	vector	center	mapping
1	$[X, Y, Z]$	$[x, 0, z]$	[1]
2	$[-Y, X - Y, Z]$	$[0, x, z]$	[2]
3	$[-X + Y, -X, Z]$	$[-x, -x, z]$	[3]
4	$[Y, X, Z]$	$[0, x, z]$	[4]
5	$[X - Y, -Y, Z]$	$[x, 0, z]$	[5]
6	$[-X, -X + Y, Z]$	$[-x, -x, z]$	[6]

* Wyckoff site: 6c, site symmetry: 1

Table 8: Wyckoff bond: 6a@6c

No.	vector	center	mapping
1	$[X, Y, Z]$	$[x, y, z]$	[1]
2	$[-Y, X - Y, Z]$	$[-y, x - y, z]$	[2]
3	$[-X + Y, -X, Z]$	$[-x + y, -x, z]$	[3]
4	$[Y, X, Z]$	$[y, x, z]$	[4]
5	$[X - Y, -Y, Z]$	$[x - y, -y, z]$	[5]
6	$[-X, -X + Y, Z]$	$[-x, -x + y, z]$	[6]