PG No. 34 $D_3(1)$ 32 (312 setting) [trigonal]

* Wyckoff site: `2a`, site symmetry: `3..`

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

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

Table 2: Wyckoff bond: `6b@2a`

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: `..2`

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

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

Table 4: Wyckoff bond: `3b@3b`

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

Table 5: Wyckoff bond: `6c@3b`

No.	vector	center	mapping
1	$[X, Y, Z]$	$[x, -x, 0]$	`[1]`
2	$[-Y, X-Y, Z]$	$[x, 2x, 0]$	`[2]`

continued ...

Table 5

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

* Wyckoff site: `6c`, site symmetry: `1`

Table 6: 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]`