SG No. 147 C_{3i}^{1} $P\bar{3}$ [trigonal]

* plus set: $+[0,\ 0,\ 0]$

Table 1: Wyckoff site: `1a`, site symmetry: `-3..`

No.	position	mapping
1	$[0,\ 0,\ 0]$	`[1,2,3,4,5,6]`

Table 2: Wyckoff site: `1b`, site symmetry: `-3..`

No.	position	mapping
1	$\left[0,\ 0,\ \frac{1}{2}\right]$	`[1,2,3,4,5,6]`

Table 3: Wyckoff site: `2c`, site symmetry: `3..`

No.	position	mapping
1	$[0,\ 0,\ z]$	`[1,2,3]`
2	$[0,\ 0,\ -z]$	`[4,5,6]`

Table 4: Wyckoff site: `2d`, site symmetry: `3..`

No.	position	mapping
1	$\left[\frac{1}{3},\ \frac{2}{3},\ z\right]$	`[1,2,3]`
2	$\left[\frac{2}{3},\ \frac{1}{3},\ -z\right]$	`[4,5,6]`

Table 5: Wyckoff site: `3e`, site symmetry: `-1`

No.	position	mapping
1	$\left[\frac{1}{2},\ 0,\ 0\right]$	`[1,4]`
2	$\left[0,\ \frac{1}{2},\ 0\right]$	`[2,5]`
3	$\left[\frac{1}{2},\ \frac{1}{2},\ 0\right]$	`[3,6]`

Table 6: Wyckoff site: `3f`, site symmetry: `-1`

No.	position	mapping
1	$\left[\frac{1}{2},\ 0,\ \frac{1}{2}\right]$	`[1,4]`
2	$\left[0,\ \frac{1}{2},\ \frac{1}{2}\right]$	`[2,5]`

continued ...

Table 6

No.	position	mapping
3	$\left[\frac{1}{2}, \frac{1}{2}, \frac{1}{2}\right]$	[3,6]

Table 7: Wyckoff site: 6g, site symmetry: 1

No.	position	mapping
1	$[x, y, z]$	[1]
2	$[-y, x-y, z]$	[2]
3	$[-x+y, -x, z]$	[3]
4	$[-x, -y, -z]$	[4]
5	$[y, -x+y, -z]$	[5]
6	$[x-y, x, -z]$	[6]