SG No. 101 C_{4v}^3 $P4_2cm$ [tetragonal]

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

Table 1: Wyckoff site: `2a`, site symmetry: `2.mm`

No.	position	mapping
1	$[0,\ 0,\ z]$	`[1,2,7,8]`
2	$\left[0,\ 0,\ z+\frac{1}{2}\right]$	`[3,4,5,6]`

Table 2: Wyckoff site: `2b`, site symmetry: `2.mm`

No.	position	mapping
1	$\left[\frac{1}{2},\ \frac{1}{2},\ z\right]$	`[1,2,7,8]`
2	$\left[\frac{1}{2},\ \frac{1}{2},\ z+\frac{1}{2}\right]$	`[3,4,5,6]`

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

No.	position	mapping
1	$\left[0,\ \frac{1}{2},\ z\right]$	`[1,2]`
2	$\left[\frac{1}{2},\ 0,\ z+\frac{1}{2}\right]$	`[3,4]`
3	$\left[0,\ \frac{1}{2},\ z+\frac{1}{2}\right]$	`[5,6]`
4	$\left[\frac{1}{2},\ 0,\ z\right]$	`[7,8]`

Table 4: Wyckoff site: `4d`, site symmetry: `..m`

No.	position	mapping
1	$[x,\ x,\ z]$	`[1,8]`
2	$[-x,\ -x,\ z]$	`[2,7]`
3	$\left[-x,\ x,\ z+\frac{1}{2}\right]$	`[3,6]`
4	$\left[x,\ -x,\ z+\frac{1}{2}\right]$	`[4,5]`

Table 5: Wyckoff site: `8e`, site symmetry: `1`

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

continued ...

Table 5

No.	position	mapping
6	$\left[-x,\, y,\, z+\frac{1}{2}\right]$	[6]
7	$[-y,\, -x,\, z]$	[7]
8	$[y,\, x,\, z]$	[8]