SG No. 74 D_{2h}^{28} *Imma* [orthorhombic]

* plus set: $+[0,\ 0,\ 0]$, $+\left[\frac{1}{2},\ \frac{1}{2},\ \frac{1}{2}\right]$

Table 1: Wyckoff site: `4a`, site symmetry: `2/m..`

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

Table 2: Wyckoff site: `4b`, site symmetry: `2/m..`

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

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

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

Table 4: Wyckoff site: `4d`, site symmetry: `.2/m.`

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

Table 5: Wyckoff site: `4e`, site symmetry: `mm2`

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

Table 6: Wyckoff site: `8f`, site symmetry: `2..`

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

Table 7: Wyckoff site: `8g`, site symmetry: `.2.`

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

Table 8: Wyckoff site: `8h`, site symmetry: `m..`

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

Table 9: Wyckoff site: `8i`, site symmetry: `.m.`

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

Table 10: Wyckoff site: `16j`, site symmetry: `1`

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

continued ...

Table 10

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