PG No. 14 D_{2d} $\bar{4}2m$ (-42m setting) [tetragonal]

Table 1: Wyckoff site: `1o`, site symmetry: `-42m`

No.	position	mapping
1	[0, 0, 0]	`[1,2,3,4,5,6,7,8]`

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

No.	position	mapping
1	[0, 0, z]	`[1,2,7,8]`
2	[0, 0, $-z$]	`[3,4,5,6]`

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

No.	position	mapping
1	[x, 0, 0]	`[1,6]`
2	[$-x$, 0, 0]	`[2,5]`
3	[0, $-x$, 0]	`[3,7]`
4	[0, x, 0]	`[4,8]`

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

No.	position	mapping
1	[x, x, z]	`[1,8]`
2	[$-x$, $-x$, z]	`[2,7]`
3	[x, $-x$, $-z$]	`[3,6]`
4	[$-x$, x, $-z$]	`[4,5]`

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

No.	position	mapping
1	[x, y, z]	`[1]`
2	[$-x$, $-y$, z]	`[2]`
3	[y, $-x$, $-z$]	`[3]`
4	[$-y$, x, $-z$]	`[4]`
5	[$-x$, y, $-z$]	`[5]`
6	[x, $-y$, $-z$]	`[6]`
7	[$-y$, $-x$, z]	`[7]`

continued ...

Table 5

No.	position	mapping
8	$[y, x, z]$	[8]