PG No. 8 D_{2h} mmm [orthorhombic]

Table 1: Wyckoff site: `1o`, site symmetry: `mmm`

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

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

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

Table 3: Wyckoff site: `2b`, site symmetry: `m2m`

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

Table 4: Wyckoff site: `2c`, site symmetry: `mm2`

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

Table 5: Wyckoff site: `4d`, site symmetry: `m..`

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

Table 6: Wyckoff site: `4e`, site symmetry: `.m.`

No.	position	mapping
1	[x, 0, z]	`[1,7]`

continued ...

Table 6

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

Table 7: Wyckoff site: `4f`, site symmetry: `..m`

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

Table 8: Wyckoff site: `8g`, site symmetry: `1`

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