MPG No. 12.5.129 4′22′ (4’2’2 setting) [Type III, tetragonal]

Table 1: Wyckoff site: `1o`, site symmetry: `4’2’2`

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

Table 2: Wyckoff site: `2a`, site symmetry: `4’..`

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

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

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

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

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

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

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

continued ...

Table 5

No.	position	mapping
8	$[-y, -x, -z]$	`[5]`