PG No. 23 C_{6h} $6/m$ [hexagonal]

Table 1: Wyckoff site: `1o`, site symmetry: `6/m..`

No.	position	mapping
1	[0, 0, 0]	`[1,2,3,4,5,6,7,8,9,10,11,12]`

Table 2: Wyckoff site: `2a`, site symmetry: `6..`

No.	position	mapping
1	$[0, 0, z]$	`[1,2,3,4,5,6]`
2	$[0, 0, -z]$	`[7,8,9,10,11,12]`

Table 3: Wyckoff site: `6b`, site symmetry: `m..`

No.	position	mapping
1	$[x, y, 0]$	`[1,10]`
2	$[-y, x-y, 0]$	`[2,11]`
3	$[-x+y, -x, 0]$	`[3,12]`
4	$[-x, -y, 0]$	`[4,7]`
5	$[y, -x+y, 0]$	`[5,8]`
6	$[x-y, x, 0]$	`[6,9]`

Table 4: Wyckoff site: `12c`, site symmetry: `1`

No.	position	mapping
1	$[x, y, z]$	`[1]`
2	$[-y, x-y, z]$	`[2]`
3	$[-x+y, -x, z]$	`[3]`
4	$[-x, -y, z]$	`[4]`
5	$[y, -x+y, z]$	`[5]`
6	$[x-y, x, z]$	`[6]`
7	$[-x, -y, -z]$	`[7]`
8	$[y, -x+y, -z]$	`[8]`
9	$[x-y, x, -z]$	`[9]`
10	$[x, y, -z]$	`[10]`
11	$[-y, x-y, -z]$	`[11]`
12	$[-x+y, -x, -z]$	`[12]`