SG No. 218 T_{d}^4 $P\bar{4}3n$ [cubic]

* plus set: $+[0, 0, 0]$
* Wyckoff site: 2a, site symmetry: 23.

Table 1: Wyckoff bond: 6a@2a

No.	vector	center	mapping
1	$[X, 0, 0]$	$[0, 0, 0]$	[1,-2,-3,4]
2	$[0, X, 0]$	$[0, 0, 0]$	[5,-6,-7,8]
3	$[0, 0, X]$	$[0, 0, 0]$	[9,-10,-11,12]
4	$[0, X, 0]$	$\left[\frac{1}{2}, \frac{1}{2}, \frac{1}{2}\right]$	[13,-14,-15,16]
5	$[X, 0, 0]$	$\left[\frac{1}{2}, \frac{1}{2}, \frac{1}{2}\right]$	[17,-18,-19,20]
6	$[0, 0, X]$	$\left[\frac{1}{2}, \frac{1}{2}, \frac{1}{2}\right]$	[21,-22,-23,24]

Table 2: Wyckoff bond: 8b@2a

No.	vector	center	mapping
1	$[X, X, X]$	$[0, 0, 0]$	[1,5,9]
2	$[-X, -X, X]$	$[0, 0, 0]$	[2,7,12]
3	$[-X, X, -X]$	$[0, 0, 0]$	[3,8,10]
4	$[X, -X, -X]$	$[0, 0, 0]$	[4,6,11]
5	$[X, X, X]$	$\left[\frac{1}{2}, \frac{1}{2}, \frac{1}{2}\right]$	[13,17,21]
6	$[-X, -X, X]$	$\left[\frac{1}{2}, \frac{1}{2}, \frac{1}{2}\right]$	[14,19,24]
7	$[X, -X, -X]$	$\left[\frac{1}{2}, \frac{1}{2}, \frac{1}{2}\right]$	[15,20,22]
8	$[-X, X, -X]$	$\left[\frac{1}{2}, \frac{1}{2}, \frac{1}{2}\right]$	[16,18,23]

Table 3: Wyckoff bond: 12c@2a

No.	vector	center	mapping
1	$[X, Y, 0]$	$[0, 0, 0]$	[1,-2]
2	$[-X, Y, 0]$	$[0, 0, 0]$	[3,-4]
3	$[0, X, Y]$	$[0, 0, 0]$	[5,-6]
4	$[0, -X, Y]$	$[0, 0, 0]$	[7,-8]
5	$[Y, 0, X]$	$[0, 0, 0]$	[9,-10]
6	$[Y, 0, -X]$	$[0, 0, 0]$	[11,-12]
7	$[Y, X, 0]$	$\left[\frac{1}{2}, \frac{1}{2}, \frac{1}{2}\right]$	[13,-14]
8	$[Y, -X, 0]$	$\left[\frac{1}{2}, \frac{1}{2}, \frac{1}{2}\right]$	[15,-16]
9	$[X, 0, Y]$	$\left[\frac{1}{2}, \frac{1}{2}, \frac{1}{2}\right]$	[17,-18]
10	$[-X, 0, Y]$	$\left[\frac{1}{2}, \frac{1}{2}, \frac{1}{2}\right]$	[19,-20]
11	$[0, Y, X]$	$\left[\frac{1}{2}, \frac{1}{2}, \frac{1}{2}\right]$	[21,-22]
12	$[0, Y, -X]$	$\left[\frac{1}{2}, \frac{1}{2}, \frac{1}{2}\right]$	[23,-24]

Table 4: Wyckoff bond: `24d@2a`

No.	vector	center	mapping
1	$[X, Y, Z]$	$[0, 0, 0]$	[1]
2	$[-X, -Y, Z]$	$[0, 0, 0]$	[2]
3	$[-X, Y, -Z]$	$[0, 0, 0]$	[3]
4	$[X, -Y, -Z]$	$[0, 0, 0]$	[4]
5	$[Z, X, Y]$	$[0, 0, 0]$	[5]
6	$[Z, -X, -Y]$	$[0, 0, 0]$	[6]
7	$[-Z, -X, Y]$	$[0, 0, 0]$	[7]
8	$[-Z, X, -Y]$	$[0, 0, 0]$	[8]
9	$[Y, Z, X]$	$[0, 0, 0]$	[9]
10	$[-Y, Z, -X]$	$[0, 0, 0]$	[10]
11	$[Y, -Z, -X]$	$[0, 0, 0]$	[11]
12	$[-Y, -Z, X]$	$[0, 0, 0]$	[12]
13	$[Y, X, Z]$	$\left[\frac{1}{2}, \frac{1}{2}, \frac{1}{2}\right]$	[13]
14	$[-Y, -X, Z]$	$\left[\frac{1}{2}, \frac{1}{2}, \frac{1}{2}\right]$	[14]
15	$[Y, -X, -Z]$	$\left[\frac{1}{2}, \frac{1}{2}, \frac{1}{2}\right]$	[15]
16	$[-Y, X, -Z]$	$\left[\frac{1}{2}, \frac{1}{2}, \frac{1}{2}\right]$	[16]
17	$[X, Z, Y]$	$\left[\frac{1}{2}, \frac{1}{2}, \frac{1}{2}\right]$	[17]
18	$[-X, Z, -Y]$	$\left[\frac{1}{2}, \frac{1}{2}, \frac{1}{2}\right]$	[18]
19	$[-X, -Z, Y]$	$\left[\frac{1}{2}, \frac{1}{2}, \frac{1}{2}\right]$	[19]
20	$[X, -Z, -Y]$	$\left[\frac{1}{2}, \frac{1}{2}, \frac{1}{2}\right]$	[20]
21	$[Z, Y, X]$	$\left[\frac{1}{2}, \frac{1}{2}, \frac{1}{2}\right]$	[21]
22	$[Z, -Y, -X]$	$\left[\frac{1}{2}, \frac{1}{2}, \frac{1}{2}\right]$	[22]
23	$[-Z, Y, -X]$	$\left[\frac{1}{2}, \frac{1}{2}, \frac{1}{2}\right]$	[23]
24	$[-Z, -Y, X]$	$\left[\frac{1}{2}, \frac{1}{2}, \frac{1}{2}\right]$	[24]

* Wyckoff site: `6b`, site symmetry: `222..`

Table 5: Wyckoff bond: `6a@6b`

No.	vector	center	mapping
1	$[X, 0, 0]$	$\left[0, \frac{1}{2}, \frac{1}{2}\right]$	[1,-2,-3,4]
2	$[0, X, 0]$	$\left[\frac{1}{2}, 0, \frac{1}{2}\right]$	[5,-6,-7,8]
3	$[0, 0, X]$	$\left[\frac{1}{2}, \frac{1}{2}, 0\right]$	[9,-10,-11,12]
4	$[0, X, 0]$	$\left[0, \frac{1}{2}, 0\right]$	[13,-14,-15,16]
5	$[X, 0, 0]$	$\left[\frac{1}{2}, 0, 0\right]$	[17,-18,-19,20]
6	$[0, 0, X]$	$\left[0, 0, \frac{1}{2}\right]$	[21,-22,-23,24]

Table 6: Wyckoff bond: `6b@6b`

No.	vector	center	mapping
1	$[0, 0, X]$	$\left[0, \frac{1}{2}, \frac{1}{2}\right]$	[1,2,-3,-4]
2	$[X, 0, 0]$	$\left[\frac{1}{2}, 0, \frac{1}{2}\right]$	[5,6,-7,-8]

Table 6

No.	vector	center	mapping
3	$[0, X, 0]$	$\left[\frac{1}{2}, \frac{1}{2}, 0\right]$	`[9,10,-11,-12]`
4	$[0, 0, X]$	$\left[0, \frac{1}{2}, 0\right]$	`[13,14,-15,-16]`
5	$[0, X, 0]$	$\left[\frac{1}{2}, 0, 0\right]$	`[17,18,-19,-20]`
6	$[X, 0, 0]$	$\left[0, 0, \frac{1}{2}\right]$	`[21,22,-23,-24]`

Table 7: Wyckoff bond: `6c@6b`

No.	vector	center	mapping
1	$[0, X, 0]$	$\left[0, \frac{1}{2}, \frac{1}{2}\right]$	`[1,-2,3,-4]`
2	$[0, 0, X]$	$\left[\frac{1}{2}, 0, \frac{1}{2}\right]$	`[5,-6,7,-8]`
3	$[X, 0, 0]$	$\left[\frac{1}{2}, \frac{1}{2}, 0\right]$	`[9,-10,11,-12]`
4	$[X, 0, 0]$	$\left[0, \frac{1}{2}, 0\right]$	`[13,-14,15,-16]`
5	$[0, 0, X]$	$\left[\frac{1}{2}, 0, 0\right]$	`[17,-18,19,-20]`
6	$[0, X, 0]$	$\left[0, 0, \frac{1}{2}\right]$	`[21,-22,23,-24]`

Table 8: Wyckoff bond: `12d@6b`

No.	vector	center	mapping
1	$[X, Y, 0]$	$\left[0, \frac{1}{2}, \frac{1}{2}\right]$	`[1,-2]`
2	$[-X, Y, 0]$	$\left[0, \frac{1}{2}, \frac{1}{2}\right]$	`[3,-4]`
3	$[0, X, Y]$	$\left[\frac{1}{2}, 0, \frac{1}{2}\right]$	`[5,-6]`
4	$[0, -X, Y]$	$\left[\frac{1}{2}, 0, \frac{1}{2}\right]$	`[7,-8]`
5	$[Y, 0, X]$	$\left[\frac{1}{2}, \frac{1}{2}, 0\right]$	`[9,-10]`
6	$[Y, 0, -X]$	$\left[\frac{1}{2}, \frac{1}{2}, 0\right]$	`[11,-12]`
7	$[Y, X, 0]$	$\left[0, \frac{1}{2}, 0\right]$	`[13,-14]`
8	$[Y, -X, 0]$	$\left[0, \frac{1}{2}, 0\right]$	`[15,-16]`
9	$[X, 0, Y]$	$\left[\frac{1}{2}, 0, 0\right]$	`[17,-18]`
10	$[-X, 0, Y]$	$\left[\frac{1}{2}, 0, 0\right]$	`[19,-20]`
11	$[0, Y, X]$	$\left[0, 0, \frac{1}{2}\right]$	`[21,-22]`
12	$[0, Y, -X]$	$\left[0, 0, \frac{1}{2}\right]$	`[23,-24]`

Table 9: Wyckoff bond: `12e@6b`

No.	vector	center	mapping
1	$[Y, 0, X]$	$\left[0, \frac{1}{2}, \frac{1}{2}\right]$	`[1,-3]`
2	$[-Y, 0, X]$	$\left[0, \frac{1}{2}, \frac{1}{2}\right]$	`[2,-4]`
3	$[X, Y, 0]$	$\left[\frac{1}{2}, 0, \frac{1}{2}\right]$	`[5,-7]`
4	$[X, -Y, 0]$	$\left[\frac{1}{2}, 0, \frac{1}{2}\right]$	`[6,-8]`
5	$[0, X, Y]$	$\left[\frac{1}{2}, \frac{1}{2}, 0\right]$	`[9,-11]`

Table 9

No.	vector	center	mapping
6	$[0, X, -Y]$	$\left[\frac{1}{2}, \frac{1}{2}, 0\right]$	[10,-12]
7	$[0, Y, X]$	$\left[0, \frac{1}{2}, 0\right]$	[13,-15]
8	$[0, -Y, X]$	$\left[0, \frac{1}{2}, 0\right]$	[14,-16]
9	$[Y, X, 0]$	$\left[\frac{1}{2}, 0, 0\right]$	[17,-19]
10	$[-Y, X, 0]$	$\left[\frac{1}{2}, 0, 0\right]$	[18,-20]
11	$[X, 0, Y]$	$\left[0, 0, \frac{1}{2}\right]$	[21,-23]
12	$[X, 0, -Y]$	$\left[0, 0, \frac{1}{2}\right]$	[22,-24]

Table 10: Wyckoff bond: `12f@6b`

No.	vector	center	mapping
1	$[0, X, Y]$	$\left[0, \frac{1}{2}, \frac{1}{2}\right]$	[1,-4]
2	$[0, -X, Y]$	$\left[0, \frac{1}{2}, \frac{1}{2}\right]$	[2,-3]
3	$[Y, 0, X]$	$\left[\frac{1}{2}, 0, \frac{1}{2}\right]$	[5,-8]
4	$[Y, 0, -X]$	$\left[\frac{1}{2}, 0, \frac{1}{2}\right]$	[6,-7]
5	$[X, Y, 0]$	$\left[\frac{1}{2}, \frac{1}{2}, 0\right]$	[9,-12]
6	$[-X, Y, 0]$	$\left[\frac{1}{2}, \frac{1}{2}, 0\right]$	[10,-11]
7	$[X, 0, Y]$	$\left[0, \frac{1}{2}, 0\right]$	[13,-16]
8	$[-X, 0, Y]$	$\left[0, \frac{1}{2}, 0\right]$	[14,-15]
9	$[0, Y, X]$	$\left[\frac{1}{2}, 0, 0\right]$	[17,-20]
10	$[0, Y, -X]$	$\left[\frac{1}{2}, 0, 0\right]$	[18,-19]
11	$[Y, X, 0]$	$\left[0, 0, \frac{1}{2}\right]$	[21,-24]
12	$[Y, -X, 0]$	$\left[0, 0, \frac{1}{2}\right]$	[22,-23]

Table 11: Wyckoff bond: `24g@6b`

No.	vector	center	mapping
1	$[X, Y, Z]$	$\left[0, \frac{1}{2}, \frac{1}{2}\right]$	[1]
2	$[-X, -Y, Z]$	$\left[0, \frac{1}{2}, \frac{1}{2}\right]$	[2]
3	$[-X, Y, -Z]$	$\left[0, \frac{1}{2}, \frac{1}{2}\right]$	[3]
4	$[X, -Y, -Z]$	$\left[0, \frac{1}{2}, \frac{1}{2}\right]$	[4]
5	$[Z, X, Y]$	$\left[\frac{1}{2}, 0, \frac{1}{2}\right]$	[5]
6	$[Z, -X, -Y]$	$\left[\frac{1}{2}, 0, \frac{1}{2}\right]$	[6]
7	$[-Z, -X, Y]$	$\left[\frac{1}{2}, 0, \frac{1}{2}\right]$	[7]
8	$[-Z, X, -Y]$	$\left[\frac{1}{2}, 0, \frac{1}{2}\right]$	[8]
9	$[Y, Z, X]$	$\left[\frac{1}{2}, \frac{1}{2}, 0\right]$	[9]
10	$[-Y, Z, -X]$	$\left[\frac{1}{2}, \frac{1}{2}, 0\right]$	[10]
11	$[Y, -Z, -X]$	$\left[\frac{1}{2}, \frac{1}{2}, 0\right]$	[11]
12	$[-Y, -Z, X]$	$\left[\frac{1}{2}, \frac{1}{2}, 0\right]$	[12]
13	$[Y, X, Z]$	$\left[0, \frac{1}{2}, 0\right]$	[13]
14	$[-Y, -X, Z]$	$\left[0, \frac{1}{2}, 0\right]$	[14]
15	$[Y, -X, -Z]$	$\left[0, \frac{1}{2}, 0\right]$	[15]

continued ...

Table 11

No.	vector	center	mapping
16	$[-Y, X, -Z]$	$\left[0, \frac{1}{2}, 0\right]$	[16]
17	$[X, Z, Y]$	$\left[\frac{1}{2}, 0, 0\right]$	[17]
18	$[-X, Z, -Y]$	$\left[\frac{1}{2}, 0, 0\right]$	[18]
19	$[-X, -Z, Y]$	$\left[\frac{1}{2}, 0, 0\right]$	[19]
20	$[X, -Z, -Y]$	$\left[\frac{1}{2}, 0, 0\right]$	[20]
21	$[Z, Y, X]$	$\left[0, 0, \frac{1}{2}\right]$	[21]
22	$[Z, -Y, -X]$	$\left[0, 0, \frac{1}{2}\right]$	[22]
23	$[-Z, Y, -X]$	$\left[0, 0, \frac{1}{2}\right]$	[23]
24	$[-Z, -Y, X]$	$\left[0, 0, \frac{1}{2}\right]$	[24]

* Wyckoff site: 6c, site symmetry: -4..

Table 12: Wyckoff bond: 6a@6c

No.	vector	center	mapping
1	$[X, 0, 0]$	$\left[\frac{1}{4}, \frac{1}{2}, 0\right]$	[1,4,-18,-19]
2	$[-X, 0, 0]$	$\left[\frac{3}{4}, \frac{1}{2}, 0\right]$	[2,3,-17,-20]
3	$[0, X, 0]$	$\left[0, \frac{1}{4}, \frac{1}{2}\right]$	[5,8,-14,-15]
4	$[0, -X, 0]$	$\left[0, \frac{3}{4}, \frac{1}{2}\right]$	[6,7,-13,-16]
5	$[0, 0, X]$	$\left[\frac{1}{2}, 0, \frac{1}{4}\right]$	[9,12,-22,-23]
6	$[0, 0, -X]$	$\left[\frac{1}{2}, 0, \frac{3}{4}\right]$	[10,11,-21,-24]

Table 13: Wyckoff bond: 12b@6c

No.	vector	center	mapping
1	$[0, X, Y]$	$\left[\frac{1}{4}, \frac{1}{2}, 0\right]$	[1,-4]
2	$[0, -X, Y]$	$\left[\frac{3}{4}, \frac{1}{2}, 0\right]$	[2,-3]
3	$[Y, 0, X]$	$\left[0, \frac{1}{4}, \frac{1}{2}\right]$	[5,-8]
4	$[Y, 0, -X]$	$\left[0, \frac{3}{4}, \frac{1}{2}\right]$	[6,-7]
5	$[X, Y, 0]$	$\left[\frac{1}{2}, 0, \frac{1}{4}\right]$	[9,-12]
6	$[-X, Y, 0]$	$\left[\frac{1}{2}, 0, \frac{3}{4}\right]$	[10,-11]
7	$[X, 0, Y]$	$\left[0, \frac{3}{4}, \frac{1}{2}\right]$	[13,-16]
8	$[-X, 0, Y]$	$\left[0, \frac{1}{4}, \frac{1}{2}\right]$	[14,-15]
9	$[0, Y, X]$	$\left[\frac{3}{4}, \frac{1}{2}, 0\right]$	[17,-20]
10	$[0, Y, -X]$	$\left[\frac{1}{4}, \frac{1}{2}, 0\right]$	[18,-19]
11	$[Y, X, 0]$	$\left[\frac{1}{2}, 0, \frac{3}{4}\right]$	[21,-24]
12	$[Y, -X, 0]$	$\left[\frac{1}{2}, 0, \frac{1}{4}\right]$	[22,-23]

Table 14: Wyckoff bond: `24c@6c`

No.	vector	center	mapping
1	$[X, Y, Z]$	$\left[\frac{1}{4}, \frac{1}{2}, 0\right]$	[1]
2	$[-X, -Y, Z]$	$\left[\frac{3}{4}, \frac{1}{2}, 0\right]$	[2]
3	$[-X, Y, -Z]$	$\left[\frac{3}{4}, \frac{1}{2}, 0\right]$	[3]
4	$[X, -Y, -Z]$	$\left[\frac{1}{4}, \frac{1}{2}, 0\right]$	[4]
5	$[Z, X, Y]$	$\left[0, \frac{1}{4}, \frac{1}{2}\right]$	[5]
6	$[Z, -X, -Y]$	$\left[0, \frac{3}{4}, \frac{1}{2}\right]$	[6]
7	$[-Z, -X, Y]$	$\left[0, \frac{3}{4}, \frac{1}{2}\right]$	[7]
8	$[-Z, X, -Y]$	$\left[0, \frac{1}{4}, \frac{1}{2}\right]$	[8]
9	$[Y, Z, X]$	$\left[\frac{1}{2}, 0, \frac{1}{4}\right]$	[9]
10	$[-Y, Z, -X]$	$\left[\frac{1}{2}, 0, \frac{3}{4}\right]$	[10]
11	$[Y, -Z, -X]$	$\left[\frac{1}{2}, 0, \frac{3}{4}\right]$	[11]
12	$[-Y, -Z, X]$	$\left[\frac{1}{2}, 0, \frac{1}{4}\right]$	[12]
13	$[Y, X, Z]$	$\left[0, \frac{3}{4}, \frac{1}{2}\right]$	[13]
14	$[-Y, -X, Z]$	$\left[0, \frac{1}{4}, \frac{1}{2}\right]$	[14]
15	$[Y, -X, -Z]$	$\left[0, \frac{1}{4}, \frac{1}{2}\right]$	[15]
16	$[-Y, X, -Z]$	$\left[0, \frac{3}{4}, \frac{1}{2}\right]$	[16]
17	$[X, Z, Y]$	$\left[\frac{3}{4}, \frac{1}{2}, 0\right]$	[17]
18	$[-X, Z, -Y]$	$\left[\frac{1}{4}, \frac{1}{2}, 0\right]$	[18]
19	$[-X, -Z, Y]$	$\left[\frac{1}{4}, \frac{1}{2}, 0\right]$	[19]
20	$[X, -Z, -Y]$	$\left[\frac{3}{4}, \frac{1}{2}, 0\right]$	[20]
21	$[Z, Y, X]$	$\left[\frac{1}{2}, 0, \frac{3}{4}\right]$	[21]
22	$[Z, -Y, -X]$	$\left[\frac{1}{2}, 0, \frac{1}{4}\right]$	[22]
23	$[-Z, Y, -X]$	$\left[\frac{1}{2}, 0, \frac{1}{4}\right]$	[23]
24	$[-Z, -Y, X]$	$\left[\frac{1}{2}, 0, \frac{3}{4}\right]$	[24]

* Wyckoff site: `6d`, site symmetry: `-4..`

Table 15: Wyckoff bond: `6a@6d`

No.	vector	center	mapping
1	$[X, 0, 0]$	$\left[\frac{1}{4}, 0, \frac{1}{2}\right]$	[1,4,-18,-19]
2	$[-X, 0, 0]$	$\left[\frac{3}{4}, 0, \frac{1}{2}\right]$	[2,3,-17,-20]
3	$[0, X, 0]$	$\left[\frac{1}{2}, \frac{1}{4}, 0\right]$	[5,8,-14,-15]
4	$[0, -X, 0]$	$\left[\frac{1}{2}, \frac{3}{4}, 0\right]$	[6,7,-13,-16]
5	$[0, 0, X]$	$\left[0, \frac{1}{2}, \frac{1}{4}\right]$	[9,12,-22,-23]
6	$[0, 0, -X]$	$\left[0, \frac{1}{2}, \frac{3}{4}\right]$	[10,11,-21,-24]

Table 16: Wyckoff bond: `12b@6d`

No.	vector	center	mapping
1	$[0, X, Y]$	$\left[\frac{1}{4}, 0, \frac{1}{2}\right]$	[1,-4]
2	$[0, -X, Y]$	$\left[\frac{3}{4}, 0, \frac{1}{2}\right]$	[2,-3]

continued ...

Table 16

No.	vector	center	mapping
3	$[Y, 0, X]$	$\left[\frac{1}{2}, \frac{1}{4}, 0\right]$	[5,-8]
4	$[Y, 0, -X]$	$\left[\frac{1}{2}, \frac{3}{4}, 0\right]$	[6,-7]
5	$[X, Y, 0]$	$\left[0, \frac{1}{2}, \frac{1}{4}\right]$	[9,-12]
6	$[-X, Y, 0]$	$\left[0, \frac{1}{2}, \frac{3}{4}\right]$	[10,-11]
7	$[X, 0, Y]$	$\left[\frac{1}{2}, \frac{3}{4}, 0\right]$	[13,-16]
8	$[-X, 0, Y]$	$\left[\frac{1}{2}, \frac{1}{4}, 0\right]$	[14,-15]
9	$[0, Y, X]$	$\left[\frac{3}{4}, 0, \frac{1}{2}\right]$	[17,-20]
10	$[0, Y, -X]$	$\left[\frac{1}{4}, 0, \frac{1}{2}\right]$	[18,-19]
11	$[Y, X, 0]$	$\left[0, \frac{1}{2}, \frac{3}{4}\right]$	[21,-24]
12	$[Y, -X, 0]$	$\left[0, \frac{1}{2}, \frac{1}{4}\right]$	[22,-23]

Table 17: Wyckoff bond: `24c@6d`

No.	vector	center	mapping
1	$[X, Y, Z]$	$\left[\frac{1}{4}, 0, \frac{1}{2}\right]$	[1]
2	$[-X, -Y, Z]$	$\left[\frac{3}{4}, 0, \frac{1}{2}\right]$	[2]
3	$[-X, Y, -Z]$	$\left[\frac{3}{4}, 0, \frac{1}{2}\right]$	[3]
4	$[X, -Y, -Z]$	$\left[\frac{1}{4}, 0, \frac{1}{2}\right]$	[4]
5	$[Z, X, Y]$	$\left[\frac{1}{2}, \frac{1}{4}, 0\right]$	[5]
6	$[Z, -X, -Y]$	$\left[\frac{1}{2}, \frac{3}{4}, 0\right]$	[6]
7	$[-Z, -X, Y]$	$\left[\frac{1}{2}, \frac{3}{4}, 0\right]$	[7]
8	$[-Z, X, -Y]$	$\left[\frac{1}{2}, \frac{1}{4}, 0\right]$	[8]
9	$[Y, Z, X]$	$\left[0, \frac{1}{2}, \frac{1}{4}\right]$	[9]
10	$[-Y, Z, -X]$	$\left[0, \frac{1}{2}, \frac{3}{4}\right]$	[10]
11	$[Y, -Z, -X]$	$\left[0, \frac{1}{2}, \frac{3}{4}\right]$	[11]
12	$[-Y, -Z, X]$	$\left[0, \frac{1}{2}, \frac{1}{4}\right]$	[12]
13	$[Y, X, Z]$	$\left[\frac{1}{2}, \frac{3}{4}, 0\right]$	[13]
14	$[-Y, -X, Z]$	$\left[\frac{1}{2}, \frac{1}{4}, 0\right]$	[14]
15	$[Y, -X, -Z]$	$\left[\frac{1}{2}, \frac{1}{4}, 0\right]$	[15]
16	$[-Y, X, -Z]$	$\left[\frac{1}{2}, \frac{3}{4}, 0\right]$	[16]
17	$[X, Z, Y]$	$\left[\frac{3}{4}, 0, \frac{1}{2}\right]$	[17]
18	$[-X, Z, -Y]$	$\left[\frac{1}{4}, 0, \frac{1}{2}\right]$	[18]
19	$[-X, -Z, Y]$	$\left[\frac{1}{4}, 0, \frac{1}{2}\right]$	[19]
20	$[X, -Z, -Y]$	$\left[\frac{3}{4}, 0, \frac{1}{2}\right]$	[20]
21	$[Z, Y, X]$	$\left[0, \frac{1}{2}, \frac{3}{4}\right]$	[21]
22	$[Z, -Y, -X]$	$\left[0, \frac{1}{2}, \frac{1}{4}\right]$	[22]
23	$[-Z, Y, -X]$	$\left[0, \frac{1}{2}, \frac{1}{4}\right]$	[23]
24	$[-Z, -Y, X]$	$\left[0, \frac{1}{2}, \frac{3}{4}\right]$	[24]

* Wyckoff site: `8e`, site symmetry: `.3.`

Table 18: Wyckoff bond: `8a@8e`

No.	vector	center	mapping
1	$[X, X, X]$	$[x, x, x]$	`[1,5,9]`
2	$[-X, -X, X]$	$[-x, -x, x]$	`[2,7,12]`
3	$[-X, X, -X]$	$[-x, x, -x]$	`[3,8,10]`
4	$[X, -X, -X]$	$[x, -x, -x]$	`[4,6,11]`
5	$[X, X, X]$	$\left[x+\frac{1}{2}, x+\frac{1}{2}, x+\frac{1}{2}\right]$	`[13,17,21]`
6	$[-X, -X, X]$	$\left[\frac{1}{2}-x, \frac{1}{2}-x, x+\frac{1}{2}\right]$	`[14,19,24]`
7	$[X, -X, -X]$	$\left[x+\frac{1}{2}, \frac{1}{2}-x, \frac{1}{2}-x\right]$	`[15,20,22]`
8	$[-X, X, -X]$	$\left[\frac{1}{2}-x, x+\frac{1}{2}, \frac{1}{2}-x\right]$	`[16,18,23]`

Table 19: Wyckoff bond: `24b@8e`

No.	vector	center	mapping
1	$[X, Y, Z]$	$[x, x, x]$	`[1]`
2	$[-X, -Y, Z]$	$[-x, -x, x]$	`[2]`
3	$[-X, Y, -Z]$	$[-x, x, -x]$	`[3]`
4	$[X, -Y, -Z]$	$[x, -x, -x]$	`[4]`
5	$[Z, X, Y]$	$[x, x, x]$	`[5]`
6	$[Z, -X, -Y]$	$[x, -x, -x]$	`[6]`
7	$[-Z, -X, Y]$	$[-x, -x, x]$	`[7]`
8	$[-Z, X, -Y]$	$[-x, x, -x]$	`[8]`
9	$[Y, Z, X]$	$[x, x, x]$	`[9]`
10	$[-Y, Z, -X]$	$[-x, x, -x]$	`[10]`
11	$[Y, -Z, -X]$	$[x, -x, -x]$	`[11]`
12	$[-Y, -Z, X]$	$[-x, -x, x]$	`[12]`
13	$[Y, X, Z]$	$\left[x+\frac{1}{2}, x+\frac{1}{2}, x+\frac{1}{2}\right]$	`[13]`
14	$[-Y, -X, Z]$	$\left[\frac{1}{2}-x, \frac{1}{2}-x, x+\frac{1}{2}\right]$	`[14]`
15	$[Y, -X, -Z]$	$\left[x+\frac{1}{2}, \frac{1}{2}-x, \frac{1}{2}-x\right]$	`[15]`
16	$[-Y, X, -Z]$	$\left[\frac{1}{2}-x, x+\frac{1}{2}, \frac{1}{2}-x\right]$	`[16]`
17	$[X, Z, Y]$	$\left[x+\frac{1}{2}, x+\frac{1}{2}, x+\frac{1}{2}\right]$	`[17]`
18	$[-X, Z, -Y]$	$\left[\frac{1}{2}-x, x+\frac{1}{2}, \frac{1}{2}-x\right]$	`[18]`
19	$[-X, -Z, Y]$	$\left[\frac{1}{2}-x, \frac{1}{2}-x, x+\frac{1}{2}\right]$	`[19]`
20	$[X, -Z, -Y]$	$\left[x+\frac{1}{2}, \frac{1}{2}-x, \frac{1}{2}-x\right]$	`[20]`
21	$[Z, Y, X]$	$\left[x+\frac{1}{2}, x+\frac{1}{2}, x+\frac{1}{2}\right]$	`[21]`
22	$[Z, -Y, -X]$	$\left[x+\frac{1}{2}, \frac{1}{2}-x, \frac{1}{2}-x\right]$	`[22]`
23	$[-Z, Y, -X]$	$\left[\frac{1}{2}-x, x+\frac{1}{2}, \frac{1}{2}-x\right]$	`[23]`
24	$[-Z, -Y, X]$	$\left[\frac{1}{2}-x, \frac{1}{2}-x, x+\frac{1}{2}\right]$	`[24]`

* Wyckoff site: `12f`, site symmetry: `2..`

Table 20: Wyckoff bond: `12a@12f`

No.	vector	center	mapping
1	$[0, X, Y]$	$[x, 0, 0]$	[1,-4]
2	$[0, -X, Y]$	$[-x, 0, 0]$	[2,-3]
3	$[Y, 0, X]$	$[0, x, 0]$	[5,-8]
4	$[Y, 0, -X]$	$[0, -x, 0]$	[6,-7]
5	$[X, Y, 0]$	$[0, 0, x]$	[9,-12]
6	$[-X, Y, 0]$	$[0, 0, -x]$	[10,-11]
7	$[X, 0, Y]$	$\left[\frac{1}{2}, x+\frac{1}{2}, \frac{1}{2}\right]$	[13,-16]
8	$[-X, 0, Y]$	$\left[\frac{1}{2}, \frac{1}{2}-x, \frac{1}{2}\right]$	[14,-15]
9	$[0, Y, X]$	$\left[x+\frac{1}{2}, \frac{1}{2}, \frac{1}{2}\right]$	[17,-20]
10	$[0, Y, -X]$	$\left[\frac{1}{2}-x, \frac{1}{2}, \frac{1}{2}\right]$	[18,-19]
11	$[Y, X, 0]$	$\left[\frac{1}{2}, \frac{1}{2}, x+\frac{1}{2}\right]$	[21,-24]
12	$[Y, -X, 0]$	$\left[\frac{1}{2}, \frac{1}{2}, \frac{1}{2}-x\right]$	[22,-23]

Table 21: Wyckoff bond: `12b@12f`

No.	vector	center	mapping
1	$[X, 0, 0]$	$[x, 0, 0]$	[1,4]
2	$[-X, 0, 0]$	$[-x, 0, 0]$	[2,3]
3	$[0, X, 0]$	$[0, x, 0]$	[5,8]
4	$[0, -X, 0]$	$[0, -x, 0]$	[6,7]
5	$[0, 0, X]$	$[0, 0, x]$	[9,12]
6	$[0, 0, -X]$	$[0, 0, -x]$	[10,11]
7	$[0, X, 0]$	$\left[\frac{1}{2}, x+\frac{1}{2}, \frac{1}{2}\right]$	[13,16]
8	$[0, -X, 0]$	$\left[\frac{1}{2}, \frac{1}{2}-x, \frac{1}{2}\right]$	[14,15]
9	$[X, 0, 0]$	$\left[x+\frac{1}{2}, \frac{1}{2}, \frac{1}{2}\right]$	[17,20]
10	$[-X, 0, 0]$	$\left[\frac{1}{2}-x, \frac{1}{2}, \frac{1}{2}\right]$	[18,19]
11	$[0, 0, X]$	$\left[\frac{1}{2}, \frac{1}{2}, x+\frac{1}{2}\right]$	[21,24]
12	$[0, 0, -X]$	$\left[\frac{1}{2}, \frac{1}{2}, \frac{1}{2}-x\right]$	[22,23]

Table 22: Wyckoff bond: `24c@12f`

No.	vector	center	mapping
1	$[X, Y, Z]$	$[x, 0, 0]$	[1]
2	$[-X, -Y, Z]$	$[-x, 0, 0]$	[2]
3	$[-X, Y, -Z]$	$[-x, 0, 0]$	[3]
4	$[X, -Y, -Z]$	$[x, 0, 0]$	[4]
5	$[Z, X, Y]$	$[0, x, 0]$	[5]
6	$[Z, -X, -Y]$	$[0, -x, 0]$	[6]
7	$[-Z, -X, Y]$	$[0, -x, 0]$	[7]
8	$[-Z, X, -Y]$	$[0, x, 0]$	[8]
9	$[Y, Z, X]$	$[0, 0, x]$	[9]

continued ...

Table 22

No.	vector	center	mapping
10	$[-Y, Z, -X]$	$[0, 0, -x]$	[10]
11	$[Y, -Z, -X]$	$[0, 0, -x]$	[11]
12	$[-Y, -Z, X]$	$[0, 0, x]$	[12]
13	$[Y, X, Z]$	$\left[\frac{1}{2}, x+\frac{1}{2}, \frac{1}{2}\right]$	[13]
14	$[-Y, -X, Z]$	$\left[\frac{1}{2}, \frac{1}{2}-x, \frac{1}{2}\right]$	[14]
15	$[Y, -X, -Z]$	$\left[\frac{1}{2}, \frac{1}{2}-x, \frac{1}{2}\right]$	[15]
16	$[-Y, X, -Z]$	$\left[\frac{1}{2}, x+\frac{1}{2}, \frac{1}{2}\right]$	[16]
17	$[X, Z, Y]$	$\left[x+\frac{1}{2}, \frac{1}{2}, \frac{1}{2}\right]$	[17]
18	$[-X, Z, -Y]$	$\left[\frac{1}{2}-x, \frac{1}{2}, \frac{1}{2}\right]$	[18]
19	$[-X, -Z, Y]$	$\left[\frac{1}{2}-x, \frac{1}{2}, \frac{1}{2}\right]$	[19]
20	$[X, -Z, -Y]$	$\left[x+\frac{1}{2}, \frac{1}{2}, \frac{1}{2}\right]$	[20]
21	$[Z, Y, X]$	$\left[\frac{1}{2}, \frac{1}{2}, x+\frac{1}{2}\right]$	[21]
22	$[Z, -Y, -X]$	$\left[\frac{1}{2}, \frac{1}{2}, \frac{1}{2}-x\right]$	[22]
23	$[-Z, Y, -X]$	$\left[\frac{1}{2}, \frac{1}{2}, \frac{1}{2}-x\right]$	[23]
24	$[-Z, -Y, X]$	$\left[\frac{1}{2}, \frac{1}{2}, x+\frac{1}{2}\right]$	[24]

* Wyckoff site: `12g`, site symmetry: `2..`

Table 23: Wyckoff bond: `12a@12g`

No.	vector	center	mapping
1	$[0, X, Y]$	$\left[x, \frac{1}{2}, 0\right]$	[1,-4]
2	$[0, -X, Y]$	$\left[-x, \frac{1}{2}, 0\right]$	[2,-3]
3	$[Y, 0, X]$	$\left[0, x, \frac{1}{2}\right]$	[5,-8]
4	$[Y, 0, -X]$	$\left[0, -x, \frac{1}{2}\right]$	[6,-7]
5	$[X, Y, 0]$	$\left[\frac{1}{2}, 0, x\right]$	[9,-12]
6	$[-X, Y, 0]$	$\left[\frac{1}{2}, 0, -x\right]$	[10,-11]
7	$[X, 0, Y]$	$\left[0, x+\frac{1}{2}, \frac{1}{2}\right]$	[13,-16]
8	$[-X, 0, Y]$	$\left[0, \frac{1}{2}-x, \frac{1}{2}\right]$	[14,-15]
9	$[0, Y, X]$	$\left[x+\frac{1}{2}, \frac{1}{2}, 0\right]$	[17,-20]
10	$[0, Y, -X]$	$\left[\frac{1}{2}-x, \frac{1}{2}, 0\right]$	[18,-19]
11	$[Y, X, 0]$	$\left[\frac{1}{2}, 0, x+\frac{1}{2}\right]$	[21,-24]
12	$[Y, -X, 0]$	$\left[\frac{1}{2}, 0, \frac{1}{2}-x\right]$	[22,-23]

Table 24: Wyckoff bond: `12b@12g`

No.	vector	center	mapping
1	$[X, 0, 0]$	$\left[x, \frac{1}{2}, 0\right]$	[1,4]
2	$[-X, 0, 0]$	$\left[-x, \frac{1}{2}, 0\right]$	[2,3]
3	$[0, X, 0]$	$\left[0, x, \frac{1}{2}\right]$	[5,8]
4	$[0, -X, 0]$	$\left[0, -x, \frac{1}{2}\right]$	[6,7]
5	$[0, 0, X]$	$\left[\frac{1}{2}, 0, x\right]$	[9,12]

continued ...

Table 24

No.	vector	center	mapping
6	$[0, 0, -X]$	$\left[\frac{1}{2}, 0, -x\right]$	[10,11]
7	$[0, X, 0]$	$\left[0, x + \frac{1}{2}, \frac{1}{2}\right]$	[13,16]
8	$[0, -X, 0]$	$\left[0, \frac{1}{2} - x, \frac{1}{2}\right]$	[14,15]
9	$[X, 0, 0]$	$\left[x + \frac{1}{2}, \frac{1}{2}, 0\right]$	[17,20]
10	$[-X, 0, 0]$	$\left[\frac{1}{2} - x, \frac{1}{2}, 0\right]$	[18,19]
11	$[0, 0, X]$	$\left[\frac{1}{2}, 0, x + \frac{1}{2}\right]$	[21,24]
12	$[0, 0, -X]$	$\left[\frac{1}{2}, 0, \frac{1}{2} - x\right]$	[22,23]

Table 25: Wyckoff bond: `24c@12g`

No.	vector	center	mapping
1	$[X, Y, Z]$	$\left[x, \frac{1}{2}, 0\right]$	[1]
2	$[-X, -Y, Z]$	$\left[-x, \frac{1}{2}, 0\right]$	[2]
3	$[-X, Y, -Z]$	$\left[-x, \frac{1}{2}, 0\right]$	[3]
4	$[X, -Y, -Z]$	$\left[x, \frac{1}{2}, 0\right]$	[4]
5	$[Z, X, Y]$	$\left[0, x, \frac{1}{2}\right]$	[5]
6	$[Z, -X, -Y]$	$\left[0, -x, \frac{1}{2}\right]$	[6]
7	$[-Z, -X, Y]$	$\left[0, -x, \frac{1}{2}\right]$	[7]
8	$[-Z, X, -Y]$	$\left[0, x, \frac{1}{2}\right]$	[8]
9	$[Y, Z, X]$	$\left[\frac{1}{2}, 0, x\right]$	[9]
10	$[-Y, Z, -X]$	$\left[\frac{1}{2}, 0, -x\right]$	[10]
11	$[Y, -Z, -X]$	$\left[\frac{1}{2}, 0, -x\right]$	[11]
12	$[-Y, -Z, X]$	$\left[\frac{1}{2}, 0, x\right]$	[12]
13	$[Y, X, Z]$	$\left[0, x + \frac{1}{2}, \frac{1}{2}\right]$	[13]
14	$[-Y, -X, Z]$	$\left[0, \frac{1}{2} - x, \frac{1}{2}\right]$	[14]
15	$[Y, -X, -Z]$	$\left[0, \frac{1}{2} - x, \frac{1}{2}\right]$	[15]
16	$[-Y, X, -Z]$	$\left[0, x + \frac{1}{2}, \frac{1}{2}\right]$	[16]
17	$[X, Z, Y]$	$\left[x + \frac{1}{2}, \frac{1}{2}, 0\right]$	[17]
18	$[-X, Z, -Y]$	$\left[\frac{1}{2} - x, \frac{1}{2}, 0\right]$	[18]
19	$[-X, -Z, Y]$	$\left[\frac{1}{2} - x, \frac{1}{2}, 0\right]$	[19]
20	$[X, -Z, -Y]$	$\left[x + \frac{1}{2}, \frac{1}{2}, 0\right]$	[20]
21	$[Z, Y, X]$	$\left[\frac{1}{2}, 0, x + \frac{1}{2}\right]$	[21]
22	$[Z, -Y, -X]$	$\left[\frac{1}{2}, 0, \frac{1}{2} - x\right]$	[22]
23	$[-Z, Y, -X]$	$\left[\frac{1}{2}, 0, \frac{1}{2} - x\right]$	[23]
24	$[-Z, -Y, X]$	$\left[\frac{1}{2}, 0, x + \frac{1}{2}\right]$	[24]

* Wyckoff site: `12h`, site symmetry: `2..`

Table 26: Wyckoff bond: `12a@12h`

No.	vector	center	mapping
1	$[0, X, Y]$	$\left[x, 0, \frac{1}{2}\right]$	[1,-4]

Table 26

No.	vector	center	mapping
2	$[0, -X, Y]$	$\left[-x, 0, \frac{1}{2}\right]$	[2,-3]
3	$[Y, 0, X]$	$\left[\frac{1}{2}, x, 0\right]$	[5,-8]
4	$[Y, 0, -X]$	$\left[\frac{1}{2}, -x, 0\right]$	[6,-7]
5	$[X, Y, 0]$	$\left[0, \frac{1}{2}, x\right]$	[9,-12]
6	$[-X, Y, 0]$	$\left[0, \frac{1}{2}, -x\right]$	[10,-11]
7	$[X, 0, Y]$	$\left[\frac{1}{2}, x + \frac{1}{2}, 0\right]$	[13,-16]
8	$[-X, 0, Y]$	$\left[\frac{1}{2}, \frac{1}{2} - x, 0\right]$	[14,-15]
9	$[0, Y, X]$	$\left[x + \frac{1}{2}, 0, \frac{1}{2}\right]$	[17,-20]
10	$[0, Y, -X]$	$\left[\frac{1}{2} - x, 0, \frac{1}{2}\right]$	[18,-19]
11	$[Y, X, 0]$	$\left[0, \frac{1}{2}, x + \frac{1}{2}\right]$	[21,-24]
12	$[Y, -X, 0]$	$\left[0, \frac{1}{2}, \frac{1}{2} - x\right]$	[22,-23]

Table 27: Wyckoff bond: `12b@12h`

No.	vector	center	mapping
1	$[X, 0, 0]$	$\left[x, 0, \frac{1}{2}\right]$	[1,4]
2	$[-X, 0, 0]$	$\left[-x, 0, \frac{1}{2}\right]$	[2,3]
3	$[0, X, 0]$	$\left[\frac{1}{2}, x, 0\right]$	[5,8]
4	$[0, -X, 0]$	$\left[\frac{1}{2}, -x, 0\right]$	[6,7]
5	$[0, 0, X]$	$\left[0, \frac{1}{2}, x\right]$	[9,12]
6	$[0, 0, -X]$	$\left[0, \frac{1}{2}, -x\right]$	[10,11]
7	$[0, X, 0]$	$\left[\frac{1}{2}, x + \frac{1}{2}, 0\right]$	[13,16]
8	$[0, -X, 0]$	$\left[\frac{1}{2}, \frac{1}{2} - x, 0\right]$	[14,15]
9	$[X, 0, 0]$	$\left[x + \frac{1}{2}, 0, \frac{1}{2}\right]$	[17,20]
10	$[-X, 0, 0]$	$\left[\frac{1}{2} - x, 0, \frac{1}{2}\right]$	[18,19]
11	$[0, 0, X]$	$\left[0, \frac{1}{2}, x + \frac{1}{2}\right]$	[21,24]
12	$[0, 0, -X]$	$\left[0, \frac{1}{2}, \frac{1}{2} - x\right]$	[22,23]

Table 28: Wyckoff bond: `24c@12h`

No.	vector	center	mapping
1	$[X, Y, Z]$	$\left[x, 0, \frac{1}{2}\right]$	[1]
2	$[-X, -Y, Z]$	$\left[-x, 0, \frac{1}{2}\right]$	[2]
3	$[-X, Y, -Z]$	$\left[-x, 0, \frac{1}{2}\right]$	[3]
4	$[X, -Y, -Z]$	$\left[x, 0, \frac{1}{2}\right]$	[4]
5	$[Z, X, Y]$	$\left[\frac{1}{2}, x, 0\right]$	[5]
6	$[Z, -X, -Y]$	$\left[\frac{1}{2}, -x, 0\right]$	[6]
7	$[-Z, -X, Y]$	$\left[\frac{1}{2}, -x, 0\right]$	[7]
8	$[-Z, X, -Y]$	$\left[\frac{1}{2}, x, 0\right]$	[8]
9	$[Y, Z, X]$	$\left[0, \frac{1}{2}, x\right]$	[9]
10	$[-Y, Z, -X]$	$\left[0, \frac{1}{2}, -x\right]$	[10]
11	$[Y, -Z, -X]$	$\left[0, \frac{1}{2}, -x\right]$	[11]

continued ...

Table 28

No.	vector	center	mapping
12	$[-Y, -Z, X]$	$\left[0, \frac{1}{2}, x\right]$	[12]
13	$[Y, X, Z]$	$\left[\frac{1}{2}, x + \frac{1}{2}, 0\right]$	[13]
14	$[-Y, -X, Z]$	$\left[\frac{1}{2}, \frac{1}{2} - x, 0\right]$	[14]
15	$[Y, -X, -Z]$	$\left[\frac{1}{2}, \frac{1}{2} - x, 0\right]$	[15]
16	$[-Y, X, -Z]$	$\left[\frac{1}{2}, x + \frac{1}{2}, 0\right]$	[16]
17	$[X, Z, Y]$	$\left[x + \frac{1}{2}, 0, \frac{1}{2}\right]$	[17]
18	$[-X, Z, -Y]$	$\left[\frac{1}{2} - x, 0, \frac{1}{2}\right]$	[18]
19	$[-X, -Z, Y]$	$\left[\frac{1}{2} - x, 0, \frac{1}{2}\right]$	[19]
20	$[X, -Z, -Y]$	$\left[x + \frac{1}{2}, 0, \frac{1}{2}\right]$	[20]
21	$[Z, Y, X]$	$\left[0, \frac{1}{2}, x + \frac{1}{2}\right]$	[21]
22	$[Z, -Y, -X]$	$\left[0, \frac{1}{2}, \frac{1}{2} - x\right]$	[22]
23	$[-Z, Y, -X]$	$\left[0, \frac{1}{2}, \frac{1}{2} - x\right]$	[23]
24	$[-Z, -Y, X]$	$\left[0, \frac{1}{2}, x + \frac{1}{2}\right]$	[24]

* Wyckoff site: 24i, site symmetry: 1

Table 29: Wyckoff bond: 24a@24i

No.	vector	center	mapping
1	$[X, Y, Z]$	$[x, y, z]$	[1]
2	$[-X, -Y, Z]$	$[-x, -y, z]$	[2]
3	$[-X, Y, -Z]$	$[-x, y, -z]$	[3]
4	$[X, -Y, -Z]$	$[x, -y, -z]$	[4]
5	$[Z, X, Y]$	$[z, x, y]$	[5]
6	$[Z, -X, -Y]$	$[z, -x, -y]$	[6]
7	$[-Z, -X, Y]$	$[-z, -x, y]$	[7]
8	$[-Z, X, -Y]$	$[-z, x, -y]$	[8]
9	$[Y, Z, X]$	$[y, z, x]$	[9]
10	$[-Y, Z, -X]$	$[-y, z, -x]$	[10]
11	$[Y, -Z, -X]$	$[y, -z, -x]$	[11]
12	$[-Y, -Z, X]$	$[-y, -z, x]$	[12]
13	$[Y, X, Z]$	$\left[y + \frac{1}{2}, x + \frac{1}{2}, z + \frac{1}{2}\right]$	[13]
14	$[-Y, -X, Z]$	$\left[\frac{1}{2} - y, \frac{1}{2} - x, z + \frac{1}{2}\right]$	[14]
15	$[Y, -X, -Z]$	$\left[y + \frac{1}{2}, \frac{1}{2} - x, \frac{1}{2} - z\right]$	[15]
16	$[-Y, X, -Z]$	$\left[\frac{1}{2} - y, x + \frac{1}{2}, \frac{1}{2} - z\right]$	[16]
17	$[X, Z, Y]$	$\left[x + \frac{1}{2}, z + \frac{1}{2}, y + \frac{1}{2}\right]$	[17]
18	$[-X, Z, -Y]$	$\left[\frac{1}{2} - x, z + \frac{1}{2}, \frac{1}{2} - y\right]$	[18]
19	$[-X, -Z, Y]$	$\left[\frac{1}{2} - x, \frac{1}{2} - z, y + \frac{1}{2}\right]$	[19]
20	$[X, -Z, -Y]$	$\left[x + \frac{1}{2}, \frac{1}{2} - z, \frac{1}{2} - y\right]$	[20]
21	$[Z, Y, X]$	$\left[z + \frac{1}{2}, y + \frac{1}{2}, x + \frac{1}{2}\right]$	[21]
22	$[Z, -Y, -X]$	$\left[z + \frac{1}{2}, \frac{1}{2} - y, \frac{1}{2} - x\right]$	[22]
23	$[-Z, Y, -X]$	$\left[\frac{1}{2} - z, y + \frac{1}{2}, \frac{1}{2} - x\right]$	[23]
24	$[-Z, -Y, X]$	$\left[\frac{1}{2} - z, \frac{1}{2} - y, x + \frac{1}{2}\right]$	[24]