

SG No. 213 O^7 $P4_132$ [cubic]

* plus set: $+ [0, 0, 0]$

* Wyckoff site: **4a**, site symmetry: $.32$

Table 1: Wyckoff bond: **4a@4a**

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

Table 2: Wyckoff bond: **12b@4a**

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

Table 3: Wyckoff bond: **12c@4a**

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

Table 4: Wyckoff bond: 24d@4a

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

* Wyckoff site: 4b, site symmetry: .32

Table 5: Wyckoff bond: 4a@4b

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

Table 6: Wyckoff bond: 12b@4b

No.	vector	center	mapping
1	$[X, X, Y]$	$[\frac{7}{8}, \frac{7}{8}, \frac{7}{8}]$	[1,-14]
2	$[-X, -X, Y]$	$[\frac{5}{8}, \frac{1}{8}, \frac{3}{8}]$	[2,-13]
3	$[-X, X, -Y]$	$[\frac{1}{8}, \frac{3}{8}, \frac{5}{8}]$	[3,-15]
4	$[X, -X, -Y]$	$[\frac{3}{8}, \frac{5}{8}, \frac{1}{8}]$	[4,-16]

continued ...

Table 6

No.	vector	center	mapping
5	$[Y, X, X]$	$[\frac{7}{8}, \frac{7}{8}, \frac{7}{8}]$	$[5, -24]$
6	$[Y, -X, -X]$	$[\frac{3}{8}, \frac{5}{8}, \frac{1}{8}]$	$[6, -23]$
7	$[-Y, -X, X]$	$[\frac{5}{8}, \frac{1}{8}, \frac{3}{8}]$	$[7, -21]$
8	$[-Y, X, -X]$	$[\frac{1}{8}, \frac{3}{8}, \frac{5}{8}]$	$[8, -22]$
9	$[X, Y, X]$	$[\frac{7}{8}, \frac{7}{8}, \frac{7}{8}]$	$[9, -19]$
10	$[-X, Y, -X]$	$[\frac{1}{8}, \frac{3}{8}, \frac{5}{8}]$	$[10, -20]$
11	$[X, -Y, -X]$	$[\frac{3}{8}, \frac{5}{8}, \frac{1}{8}]$	$[11, -18]$
12	$[-X, -Y, X]$	$[\frac{5}{8}, \frac{1}{8}, \frac{3}{8}]$	$[12, -17]$

Table 7: Wyckoff bond: 12c@4b

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

Table 8: Wyckoff bond: 24d@4b

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

continued ...

Table 8

No.	vector	center	mapping
15	$[Y, -X, Z]$	$[\frac{1}{8}, \frac{3}{8}, \frac{5}{8}]$	[15]
16	$[-Y, X, Z]$	$[\frac{3}{8}, \frac{5}{8}, \frac{1}{8}]$	[16]
17	$[X, Z, -Y]$	$[\frac{5}{8}, \frac{1}{8}, \frac{3}{8}]$	[17]
18	$[-X, Z, Y]$	$[\frac{3}{8}, \frac{5}{8}, \frac{1}{8}]$	[18]
19	$[-X, -Z, -Y]$	$[\frac{7}{8}, \frac{7}{8}, \frac{7}{8}]$	[19]
20	$[X, -Z, Y]$	$[\frac{1}{8}, \frac{3}{8}, \frac{5}{8}]$	[20]
21	$[Z, Y, -X]$	$[\frac{5}{8}, \frac{1}{8}, \frac{3}{8}]$	[21]
22	$[Z, -Y, X]$	$[\frac{1}{8}, \frac{3}{8}, \frac{5}{8}]$	[22]
23	$[-Z, Y, X]$	$[\frac{3}{8}, \frac{5}{8}, \frac{1}{8}]$	[23]
24	$[-Z, -Y, -X]$	$[\frac{7}{8}, \frac{7}{8}, \frac{7}{8}]$	[24]

* Wyckoff site: 8c, site symmetry: $\bar{3}$.

Table 9: Wyckoff bond: 8a@8c

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

Table 10: Wyckoff bond: 24b@8c

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

continued ...

Table 10

No.	vector	center	mapping
15	$[Y, -X, Z]$	$[x + \frac{1}{4}, \frac{1}{4} - x, x + \frac{3}{4}]$	[15]
16	$[-Y, X, Z]$	$[\frac{1}{4} - x, x + \frac{3}{4}, x + \frac{1}{4}]$	[16]
17	$[X, Z, -Y]$	$[x + \frac{3}{4}, x + \frac{1}{4}, \frac{1}{4} - x]$	[17]
18	$[-X, Z, Y]$	$[\frac{1}{4} - x, x + \frac{3}{4}, x + \frac{1}{4}]$	[18]
19	$[-X, -Z, -Y]$	$[\frac{3}{4} - x, \frac{3}{4} - x, \frac{3}{4} - x]$	[19]
20	$[X, -Z, Y]$	$[x + \frac{1}{4}, \frac{1}{4} - x, x + \frac{3}{4}]$	[20]
21	$[Z, Y, -X]$	$[x + \frac{3}{4}, x + \frac{1}{4}, \frac{1}{4} - x]$	[21]
22	$[Z, -Y, X]$	$[x + \frac{1}{4}, \frac{1}{4} - x, x + \frac{3}{4}]$	[22]
23	$[-Z, Y, X]$	$[\frac{1}{4} - x, x + \frac{3}{4}, x + \frac{1}{4}]$	[23]
24	$[-Z, -Y, -X]$	$[\frac{3}{4} - x, \frac{3}{4} - x, \frac{3}{4} - x]$	[24]

* Wyckoff site: 12d, site symmetry: $\dots 2$

Table 11: Wyckoff bond: 12a@12d

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

Table 12: Wyckoff bond: 12b@12d

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

continued ...

Table 12

No.	vector	center	mapping
11	$[X, -X, 0]$	$[y + \frac{1}{2}, \frac{1}{4} - y, \frac{7}{8}]$	[11, 22]
12	$[-X, -X, 0]$	$[\frac{1}{2} - y, \frac{3}{4} - y, \frac{5}{8}]$	[12, 24]

Table 13: Wyckoff bond: 24c@12d

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

* Wyckoff site: 24e, site symmetry: 1

Table 14: Wyckoff bond: 24a@24e

No.	vector	center	mapping
1	$[X, Y, Z]$	$[x, y, z]$	[1]
2	$[-X, -Y, Z]$	$[\frac{1}{2} - x, -y, z + \frac{1}{2}]$	[2]
3	$[-X, Y, -Z]$	$[-x, y + \frac{1}{2}, \frac{1}{2} - z]$	[3]
4	$[X, -Y, -Z]$	$[x + \frac{1}{2}, \frac{1}{2} - y, -z]$	[4]
5	$[Z, X, Y]$	$[z, x, y]$	[5]
6	$[Z, -X, -Y]$	$[z + \frac{1}{2}, \frac{1}{2} - x, -y]$	[6]

continued ...

Table 14

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