

SG No. 126 D_{4h}^4 $P4/nnc$ [tetragonal]

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

* Wyckoff site: **2a**, site symmetry: **422**

Table 1: Wyckoff bond: **2a@2a**

No.	vector	center	mapping
1	$[0, 0, Z]$	$[\frac{1}{4}, \frac{1}{4}, \frac{1}{4}]$	$[1, 2, 3, 4, -5, -6, -7, -8]$
2	$[0, 0, -Z]$	$[\frac{3}{4}, \frac{3}{4}, \frac{3}{4}]$	$[9, 10, 11, 12, -13, -14, -15, -16]$

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

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

Table 3: Wyckoff bond: **4c@2a**

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

Table 4: Wyckoff bond: **8d@2a**

No.	vector	center	mapping
1	$[X, 0, Z]$	$[\frac{1}{4}, \frac{1}{4}, \frac{1}{4}]$	$[1, -5]$
2	$[-X, 0, Z]$	$[\frac{1}{4}, \frac{1}{4}, \frac{1}{4}]$	$[2, -6]$
3	$[0, X, Z]$	$[\frac{1}{4}, \frac{1}{4}, \frac{1}{4}]$	$[3, -8]$
4	$[0, -X, Z]$	$[\frac{1}{4}, \frac{1}{4}, \frac{1}{4}]$	$[4, -7]$
5	$[-X, 0, -Z]$	$[\frac{3}{4}, \frac{3}{4}, \frac{3}{4}]$	$[9, -13]$
6	$[X, 0, -Z]$	$[\frac{3}{4}, \frac{3}{4}, \frac{3}{4}]$	$[10, -14]$
7	$[0, -X, -Z]$	$[\frac{3}{4}, \frac{3}{4}, \frac{3}{4}]$	$[11, -16]$
8	$[0, X, -Z]$	$[\frac{3}{4}, \frac{3}{4}, \frac{3}{4}]$	$[12, -15]$

Table 5: Wyckoff bond: 8e@2a

No.	vector	center	mapping
1	$[X, X, Z]$	$[\frac{1}{4}, \frac{1}{4}, \frac{1}{4}]$	$[1, -8]$
2	$[-X, -X, Z]$	$[\frac{1}{4}, \frac{1}{4}, \frac{1}{4}]$	$[2, -7]$
3	$[-X, X, Z]$	$[\frac{1}{4}, \frac{1}{4}, \frac{1}{4}]$	$[3, -6]$
4	$[X, -X, Z]$	$[\frac{1}{4}, \frac{1}{4}, \frac{1}{4}]$	$[4, -5]$
5	$[-X, -X, -Z]$	$[\frac{3}{4}, \frac{3}{4}, \frac{3}{4}]$	$[9, -16]$
6	$[X, X, -Z]$	$[\frac{3}{4}, \frac{3}{4}, \frac{3}{4}]$	$[10, -15]$
7	$[X, -X, -Z]$	$[\frac{3}{4}, \frac{3}{4}, \frac{3}{4}]$	$[11, -14]$
8	$[-X, X, -Z]$	$[\frac{3}{4}, \frac{3}{4}, \frac{3}{4}]$	$[12, -13]$

Table 6: Wyckoff bond: 8f@2a

No.	vector	center	mapping
1	$[X, Y, 0]$	$[\frac{1}{4}, \frac{1}{4}, \frac{1}{4}]$	$[1, -2]$
2	$[-Y, X, 0]$	$[\frac{1}{4}, \frac{1}{4}, \frac{1}{4}]$	$[3, -4]$
3	$[-X, Y, 0]$	$[\frac{1}{4}, \frac{1}{4}, \frac{1}{4}]$	$[5, -6]$
4	$[Y, X, 0]$	$[\frac{1}{4}, \frac{1}{4}, \frac{1}{4}]$	$[7, -8]$
5	$[-X, -Y, 0]$	$[\frac{3}{4}, \frac{3}{4}, \frac{3}{4}]$	$[9, -10]$
6	$[Y, -X, 0]$	$[\frac{3}{4}, \frac{3}{4}, \frac{3}{4}]$	$[11, -12]$
7	$[X, -Y, 0]$	$[\frac{3}{4}, \frac{3}{4}, \frac{3}{4}]$	$[13, -14]$
8	$[-Y, -X, 0]$	$[\frac{3}{4}, \frac{3}{4}, \frac{3}{4}]$	$[15, -16]$

Table 7: Wyckoff bond: 16g@2a

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

Table 8: Wyckoff bond: 2a@2b

No.	vector	center	mapping
1	$[0, 0, Z]$	$[\frac{1}{4}, \frac{1}{4}, \frac{3}{4}]$	$[1, 2, 3, 4, -5, -6, -7, -8]$
2	$[0, 0, -Z]$	$[\frac{3}{4}, \frac{3}{4}, \frac{1}{4}]$	$[9, 10, 11, 12, -13, -14, -15, -16]$

Table 9: Wyckoff bond: 4b@2b

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

Table 10: Wyckoff bond: 4c@2b

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

Table 11: Wyckoff bond: 8d@2b

No.	vector	center	mapping
1	$[X, 0, Z]$	$[\frac{1}{4}, \frac{1}{4}, \frac{3}{4}]$	$[1, -5]$
2	$[-X, 0, Z]$	$[\frac{1}{4}, \frac{1}{4}, \frac{3}{4}]$	$[2, -6]$
3	$[0, X, Z]$	$[\frac{1}{4}, \frac{1}{4}, \frac{3}{4}]$	$[3, -8]$
4	$[0, -X, Z]$	$[\frac{1}{4}, \frac{1}{4}, \frac{3}{4}]$	$[4, -7]$
5	$[-X, 0, -Z]$	$[\frac{3}{4}, \frac{3}{4}, \frac{1}{4}]$	$[9, -13]$
6	$[X, 0, -Z]$	$[\frac{3}{4}, \frac{3}{4}, \frac{1}{4}]$	$[10, -14]$
7	$[0, -X, -Z]$	$[\frac{3}{4}, \frac{3}{4}, \frac{1}{4}]$	$[11, -16]$
8	$[0, X, -Z]$	$[\frac{3}{4}, \frac{3}{4}, \frac{1}{4}]$	$[12, -15]$

Table 12: Wyckoff bond: **8e@2b**

No.	vector	center	mapping
1	$[X, X, Z]$	$[\frac{1}{4}, \frac{1}{4}, \frac{3}{4}]$	$[1, -8]$
2	$[-X, -X, Z]$	$[\frac{1}{4}, \frac{1}{4}, \frac{3}{4}]$	$[2, -7]$
3	$[-X, X, Z]$	$[\frac{1}{4}, \frac{1}{4}, \frac{3}{4}]$	$[3, -6]$
4	$[X, -X, Z]$	$[\frac{1}{4}, \frac{1}{4}, \frac{3}{4}]$	$[4, -5]$
5	$[-X, -X, -Z]$	$[\frac{3}{4}, \frac{3}{4}, \frac{1}{4}]$	$[9, -16]$
6	$[X, X, -Z]$	$[\frac{3}{4}, \frac{3}{4}, \frac{1}{4}]$	$[10, -15]$
7	$[X, -X, -Z]$	$[\frac{3}{4}, \frac{3}{4}, \frac{1}{4}]$	$[11, -14]$
8	$[-X, X, -Z]$	$[\frac{3}{4}, \frac{3}{4}, \frac{1}{4}]$	$[12, -13]$

Table 13: Wyckoff bond: **8f@2b**

No.	vector	center	mapping
1	$[X, Y, 0]$	$[\frac{1}{4}, \frac{1}{4}, \frac{3}{4}]$	$[1, -2]$
2	$[-Y, X, 0]$	$[\frac{1}{4}, \frac{1}{4}, \frac{3}{4}]$	$[3, -4]$
3	$[-X, Y, 0]$	$[\frac{1}{4}, \frac{1}{4}, \frac{3}{4}]$	$[5, -6]$
4	$[Y, X, 0]$	$[\frac{1}{4}, \frac{1}{4}, \frac{3}{4}]$	$[7, -8]$
5	$[-X, -Y, 0]$	$[\frac{3}{4}, \frac{3}{4}, \frac{1}{4}]$	$[9, -10]$
6	$[Y, -X, 0]$	$[\frac{3}{4}, \frac{3}{4}, \frac{1}{4}]$	$[11, -12]$
7	$[X, -Y, 0]$	$[\frac{3}{4}, \frac{3}{4}, \frac{1}{4}]$	$[13, -14]$
8	$[-Y, -X, 0]$	$[\frac{3}{4}, \frac{3}{4}, \frac{1}{4}]$	$[15, -16]$

Table 14: Wyckoff bond: **16g@2b**

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

Table 15: Wyckoff bond: 4a@4c

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

Table 16: Wyckoff bond: 4b@4c

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

Table 17: Wyckoff bond: 4c@4c

No.	vector	center	mapping
1	$[0, 0, Z]$	$[\frac{1}{4}, \frac{3}{4}, \frac{3}{4}]$	$[1, 2, -5, -6]$
2	$[0, 0, Z]$	$[\frac{3}{4}, \frac{1}{4}, \frac{3}{4}]$	$[3, 4, -7, -8]$
3	$[0, 0, -Z]$	$[\frac{3}{4}, \frac{1}{4}, \frac{1}{4}]$	$[9, 10, -13, -14]$
4	$[0, 0, -Z]$	$[\frac{1}{4}, \frac{3}{4}, \frac{1}{4}]$	$[11, 12, -15, -16]$

Table 18: Wyckoff bond: 8d@4c

No.	vector	center	mapping
1	$[X, 0, Z]$	$[\frac{1}{4}, \frac{3}{4}, \frac{3}{4}]$	$[1, -5]$
2	$[-X, 0, Z]$	$[\frac{1}{4}, \frac{3}{4}, \frac{3}{4}]$	$[2, -6]$
3	$[0, X, Z]$	$[\frac{3}{4}, \frac{1}{4}, \frac{3}{4}]$	$[3, -8]$
4	$[0, -X, Z]$	$[\frac{3}{4}, \frac{1}{4}, \frac{3}{4}]$	$[4, -7]$
5	$[-X, 0, -Z]$	$[\frac{3}{4}, \frac{1}{4}, \frac{1}{4}]$	$[9, -13]$
6	$[X, 0, -Z]$	$[\frac{3}{4}, \frac{1}{4}, \frac{1}{4}]$	$[10, -14]$
7	$[0, -X, -Z]$	$[\frac{1}{4}, \frac{3}{4}, \frac{1}{4}]$	$[11, -16]$
8	$[0, X, -Z]$	$[\frac{1}{4}, \frac{3}{4}, \frac{1}{4}]$	$[12, -15]$

Table 19: Wyckoff bond: **8e@4c**

No.	vector	center	mapping
1	$[0, X, Z]$	$[\frac{1}{4}, \frac{3}{4}, \frac{3}{4}]$	$[1, -6]$
2	$[0, -X, Z]$	$[\frac{1}{4}, \frac{3}{4}, \frac{3}{4}]$	$[2, -5]$
3	$[-X, 0, Z]$	$[\frac{3}{4}, \frac{1}{4}, \frac{3}{4}]$	$[3, -7]$
4	$[X, 0, Z]$	$[\frac{3}{4}, \frac{1}{4}, \frac{3}{4}]$	$[4, -8]$
5	$[0, -X, -Z]$	$[\frac{3}{4}, \frac{1}{4}, \frac{1}{4}]$	$[9, -14]$
6	$[0, X, -Z]$	$[\frac{3}{4}, \frac{1}{4}, \frac{1}{4}]$	$[10, -13]$
7	$[X, 0, -Z]$	$[\frac{1}{4}, \frac{3}{4}, \frac{1}{4}]$	$[11, -15]$
8	$[-X, 0, -Z]$	$[\frac{1}{4}, \frac{3}{4}, \frac{1}{4}]$	$[12, -16]$

Table 20: Wyckoff bond: **8f@4c**

No.	vector	center	mapping
1	$[X, Y, 0]$	$[\frac{1}{4}, \frac{3}{4}, \frac{3}{4}]$	$[1, -2]$
2	$[-Y, X, 0]$	$[\frac{3}{4}, \frac{1}{4}, \frac{3}{4}]$	$[3, -4]$
3	$[-X, Y, 0]$	$[\frac{1}{4}, \frac{3}{4}, \frac{3}{4}]$	$[5, -6]$
4	$[Y, X, 0]$	$[\frac{3}{4}, \frac{1}{4}, \frac{3}{4}]$	$[7, -8]$
5	$[-X, -Y, 0]$	$[\frac{3}{4}, \frac{1}{4}, \frac{1}{4}]$	$[9, -10]$
6	$[Y, -X, 0]$	$[\frac{1}{4}, \frac{3}{4}, \frac{1}{4}]$	$[11, -12]$
7	$[X, -Y, 0]$	$[\frac{3}{4}, \frac{1}{4}, \frac{1}{4}]$	$[13, -14]$
8	$[-Y, -X, 0]$	$[\frac{1}{4}, \frac{3}{4}, \frac{1}{4}]$	$[15, -16]$

Table 21: Wyckoff bond: **16g@4c**

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

* Wyckoff site: **4d**, site symmetry: $-4..$

Table 22: Wyckoff bond: **4a@4d**

No.	vector	center	mapping
1	$[0, 0, Z]$	$[\frac{1}{4}, \frac{3}{4}, 0]$	$[1, 2, -11, -12]$
2	$[0, 0, Z]$	$[\frac{3}{4}, \frac{1}{4}, 0]$	$[3, 4, -9, -10]$
3	$[0, 0, -Z]$	$[\frac{1}{4}, \frac{3}{4}, \frac{1}{2}]$	$[5, 6, -15, -16]$
4	$[0, 0, -Z]$	$[\frac{3}{4}, \frac{1}{4}, \frac{1}{2}]$	$[7, 8, -13, -14]$

Table 23: Wyckoff bond: **8b@4d**

No.	vector	center	mapping
1	$[X, Y, 0]$	$[\frac{1}{4}, \frac{3}{4}, 0]$	$[1, -2]$
2	$[-Y, X, 0]$	$[\frac{3}{4}, \frac{1}{4}, 0]$	$[3, -4]$
3	$[-X, Y, 0]$	$[\frac{1}{4}, \frac{3}{4}, \frac{1}{2}]$	$[5, -6]$
4	$[Y, X, 0]$	$[\frac{3}{4}, \frac{1}{4}, \frac{1}{2}]$	$[7, -8]$
5	$[-X, -Y, 0]$	$[\frac{3}{4}, \frac{1}{4}, 0]$	$[9, -10]$
6	$[Y, -X, 0]$	$[\frac{1}{4}, \frac{3}{4}, 0]$	$[11, -12]$
7	$[X, -Y, 0]$	$[\frac{3}{4}, \frac{1}{4}, \frac{1}{2}]$	$[13, -14]$
8	$[-Y, -X, 0]$	$[\frac{1}{4}, \frac{3}{4}, \frac{1}{2}]$	$[15, -16]$

Table 24: Wyckoff bond: **16c@4d**

No.	vector	center	mapping
1	$[X, Y, Z]$	$[\frac{1}{4}, \frac{3}{4}, 0]$	$[1]$
2	$[-X, -Y, Z]$	$[\frac{1}{4}, \frac{3}{4}, 0]$	$[2]$
3	$[-Y, X, Z]$	$[\frac{3}{4}, \frac{1}{4}, 0]$	$[3]$
4	$[Y, -X, Z]$	$[\frac{3}{4}, \frac{1}{4}, 0]$	$[4]$
5	$[-X, Y, -Z]$	$[\frac{1}{4}, \frac{3}{4}, \frac{1}{2}]$	$[5]$
6	$[X, -Y, -Z]$	$[\frac{1}{4}, \frac{3}{4}, \frac{1}{2}]$	$[6]$
7	$[Y, X, -Z]$	$[\frac{3}{4}, \frac{1}{4}, \frac{1}{2}]$	$[7]$
8	$[-Y, -X, -Z]$	$[\frac{3}{4}, \frac{1}{4}, \frac{1}{2}]$	$[8]$
9	$[-X, -Y, -Z]$	$[\frac{3}{4}, \frac{1}{4}, 0]$	$[9]$
10	$[X, Y, -Z]$	$[\frac{3}{4}, \frac{1}{4}, 0]$	$[10]$
11	$[Y, -X, -Z]$	$[\frac{1}{4}, \frac{3}{4}, 0]$	$[11]$
12	$[-Y, X, -Z]$	$[\frac{1}{4}, \frac{3}{4}, 0]$	$[12]$
13	$[X, -Y, Z]$	$[\frac{3}{4}, \frac{1}{4}, \frac{1}{2}]$	$[13]$
14	$[-X, Y, Z]$	$[\frac{3}{4}, \frac{1}{4}, \frac{1}{2}]$	$[14]$
15	$[-Y, -X, Z]$	$[\frac{1}{4}, \frac{3}{4}, \frac{1}{2}]$	$[15]$
16	$[Y, X, Z]$	$[\frac{1}{4}, \frac{3}{4}, \frac{1}{2}]$	$[16]$

* Wyckoff site: **4e**, site symmetry: $4..$

Table 25: Wyckoff bond: **4a@4e**

No.	vector	center	mapping
1	$[0, 0, Z]$	$[\frac{1}{4}, \frac{1}{4}, z]$	$[1, 2, 3, 4]$
2	$[0, 0, -Z]$	$[\frac{1}{4}, \frac{1}{4}, \frac{1}{2} - z]$	$[5, 6, 7, 8]$
3	$[0, 0, -Z]$	$[\frac{3}{4}, \frac{3}{4}, -z]$	$[9, 10, 11, 12]$
4	$[0, 0, Z]$	$[\frac{3}{4}, \frac{3}{4}, z + \frac{1}{2}]$	$[13, 14, 15, 16]$

Table 26: Wyckoff bond: **8b@4e**

No.	vector	center	mapping
1	$[X, Y, 0]$	$[\frac{1}{4}, \frac{1}{4}, z]$	$[1, -2]$
2	$[-Y, X, 0]$	$[\frac{1}{4}, \frac{1}{4}, z]$	$[3, -4]$
3	$[-X, Y, 0]$	$[\frac{1}{4}, \frac{1}{4}, \frac{1}{2} - z]$	$[5, -6]$
4	$[Y, X, 0]$	$[\frac{1}{4}, \frac{1}{4}, \frac{1}{2} - z]$	$[7, -8]$
5	$[-X, -Y, 0]$	$[\frac{3}{4}, \frac{3}{4}, -z]$	$[9, -10]$
6	$[Y, -X, 0]$	$[\frac{3}{4}, \frac{3}{4}, -z]$	$[11, -12]$
7	$[X, -Y, 0]$	$[\frac{3}{4}, \frac{3}{4}, z + \frac{1}{2}]$	$[13, -14]$
8	$[-Y, -X, 0]$	$[\frac{3}{4}, \frac{3}{4}, z + \frac{1}{2}]$	$[15, -16]$

Table 27: Wyckoff bond: **16c@4e**

No.	vector	center	mapping
1	$[X, Y, Z]$	$[\frac{1}{4}, \frac{1}{4}, z]$	$[1]$
2	$[-X, -Y, Z]$	$[\frac{1}{4}, \frac{1}{4}, z]$	$[2]$
3	$[-Y, X, Z]$	$[\frac{1}{4}, \frac{1}{4}, z]$	$[3]$
4	$[Y, -X, Z]$	$[\frac{1}{4}, \frac{1}{4}, z]$	$[4]$
5	$[-X, Y, -Z]$	$[\frac{1}{4}, \frac{1}{4}, \frac{1}{2} - z]$	$[5]$
6	$[X, -Y, -Z]$	$[\frac{1}{4}, \frac{1}{4}, \frac{1}{2} - z]$	$[6]$
7	$[Y, X, -Z]$	$[\frac{1}{4}, \frac{1}{4}, \frac{1}{2} - z]$	$[7]$
8	$[-Y, -X, -Z]$	$[\frac{1}{4}, \frac{1}{4}, \frac{1}{2} - z]$	$[8]$
9	$[-X, -Y, -Z]$	$[\frac{3}{4}, \frac{3}{4}, -z]$	$[9]$
10	$[X, Y, -Z]$	$[\frac{3}{4}, \frac{3}{4}, -z]$	$[10]$
11	$[Y, -X, -Z]$	$[\frac{3}{4}, \frac{3}{4}, -z]$	$[11]$
12	$[-Y, X, -Z]$	$[\frac{3}{4}, \frac{3}{4}, -z]$	$[12]$
13	$[X, -Y, Z]$	$[\frac{3}{4}, \frac{3}{4}, z + \frac{1}{2}]$	$[13]$
14	$[-X, Y, Z]$	$[\frac{3}{4}, \frac{3}{4}, z + \frac{1}{2}]$	$[14]$
15	$[-Y, -X, Z]$	$[\frac{3}{4}, \frac{3}{4}, z + \frac{1}{2}]$	$[15]$
16	$[Y, X, Z]$	$[\frac{3}{4}, \frac{3}{4}, z + \frac{1}{2}]$	$[16]$

* Wyckoff site: **8f**, site symmetry: **-1**

Table 28: Wyckoff bond: 8a@8f

No.	vector	center	mapping
1	$[X, Y, Z]$	$[0, 0, 0]$	$[1, -9]$
2	$[-X, -Y, Z]$	$[\frac{1}{2}, \frac{1}{2}, 0]$	$[2, -10]$
3	$[-Y, X, Z]$	$[\frac{1}{2}, 0, 0]$	$[3, -11]$
4	$[Y, -X, Z]$	$[0, \frac{1}{2}, 0]$	$[4, -12]$
5	$[-X, Y, -Z]$	$[\frac{1}{2}, 0, \frac{1}{2}]$	$[5, -13]$
6	$[X, -Y, -Z]$	$[0, \frac{1}{2}, \frac{1}{2}]$	$[6, -14]$
7	$[Y, X, -Z]$	$[0, 0, \frac{1}{2}]$	$[7, -15]$
8	$[-Y, -X, -Z]$	$[\frac{1}{2}, \frac{1}{2}, \frac{1}{2}]$	$[8, -16]$

* Wyckoff site: 8g, site symmetry: 2..

Table 29: Wyckoff bond: 8a@8g

No.	vector	center	mapping
1	$[X, Y, 0]$	$[\frac{1}{4}, \frac{3}{4}, z]$	$[1, -2]$
2	$[-Y, X, 0]$	$[\frac{3}{4}, \frac{1}{4}, z]$	$[3, -4]$
3	$[-X, Y, 0]$	$[\frac{1}{4}, \frac{3}{4}, \frac{1}{2} - z]$	$[5, -6]$
4	$[Y, X, 0]$	$[\frac{3}{4}, \frac{1}{4}, \frac{1}{2} - z]$	$[7, -8]$
5	$[-X, -Y, 0]$	$[\frac{3}{4}, \frac{1}{4}, -z]$	$[9, -10]$
6	$[Y, -X, 0]$	$[\frac{1}{4}, \frac{3}{4}, -z]$	$[11, -12]$
7	$[X, -Y, 0]$	$[\frac{3}{4}, \frac{1}{4}, z + \frac{1}{2}]$	$[13, -14]$
8	$[-Y, -X, 0]$	$[\frac{1}{4}, \frac{3}{4}, z + \frac{1}{2}]$	$[15, -16]$

Table 30: Wyckoff bond: 8b@8g

No.	vector	center	mapping
1	$[0, 0, Z]$	$[\frac{1}{4}, \frac{3}{4}, z]$	$[1, 2]$
2	$[0, 0, Z]$	$[\frac{3}{4}, \frac{1}{4}, z]$	$[3, 4]$
3	$[0, 0, -Z]$	$[\frac{1}{4}, \frac{3}{4}, \frac{1}{2} - z]$	$[5, 6]$
4	$[0, 0, -Z]$	$[\frac{3}{4}, \frac{1}{4}, \frac{1}{2} - z]$	$[7, 8]$
5	$[0, 0, -Z]$	$[\frac{3}{4}, \frac{1}{4}, -z]$	$[9, 10]$
6	$[0, 0, -Z]$	$[\frac{1}{4}, \frac{3}{4}, -z]$	$[11, 12]$
7	$[0, 0, Z]$	$[\frac{3}{4}, \frac{1}{4}, z + \frac{1}{2}]$	$[13, 14]$
8	$[0, 0, Z]$	$[\frac{1}{4}, \frac{3}{4}, z + \frac{1}{2}]$	$[15, 16]$

Table 31: Wyckoff bond: 16c@8g

No.	vector	center	mapping
1	$[X, Y, Z]$	$[\frac{1}{4}, \frac{3}{4}, z]$	$[1]$

continued ...

Table 31

No.	vector	center	mapping
2	$[-X, -Y, Z]$	$[\frac{1}{4}, \frac{3}{4}, z]$	[2]
3	$[-Y, X, Z]$	$[\frac{3}{4}, \frac{1}{4}, z]$	[3]
4	$[Y, -X, Z]$	$[\frac{3}{4}, \frac{1}{4}, z]$	[4]
5	$[-X, Y, -Z]$	$[\frac{1}{4}, \frac{3}{4}, \frac{1}{2} - z]$	[5]
6	$[X, -Y, -Z]$	$[\frac{1}{4}, \frac{3}{4}, \frac{1}{2} - z]$	[6]
7	$[Y, X, -Z]$	$[\frac{3}{4}, \frac{1}{4}, \frac{1}{2} - z]$	[7]
8	$[-Y, -X, -Z]$	$[\frac{3}{4}, \frac{1}{4}, \frac{1}{2} - z]$	[8]
9	$[-X, -Y, -Z]$	$[\frac{3}{4}, \frac{1}{4}, -z]$	[9]
10	$[X, Y, -Z]$	$[\frac{3}{4}, \frac{1}{4}, -z]$	[10]
11	$[Y, -X, -Z]$	$[\frac{1}{4}, \frac{3}{4}, -z]$	[11]
12	$[-Y, X, -Z]$	$[\frac{1}{4}, \frac{3}{4}, -z]$	[12]
13	$[X, -Y, Z]$	$[\frac{3}{4}, \frac{1}{4}, z + \frac{1}{2}]$	[13]
14	$[-X, Y, Z]$	$[\frac{3}{4}, \frac{1}{4}, z + \frac{1}{2}]$	[14]
15	$[-Y, -X, Z]$	$[\frac{1}{4}, \frac{3}{4}, z + \frac{1}{2}]$	[15]
16	$[Y, X, Z]$	$[\frac{1}{4}, \frac{3}{4}, z + \frac{1}{2}]$	[16]

* Wyckoff site: **8h**, site symmetry: $\cdot \cdot 2$

Table 32: Wyckoff bond: **8a@8h**

No.	vector	center	mapping
1	$[X, -X, Z]$	$[x, x, \frac{1}{4}]$	[1, -7]
2	$[-X, X, Z]$	$[\frac{1}{2} - x, \frac{1}{2} - x, \frac{1}{4}]$	[2, -8]
3	$[X, X, Z]$	$[\frac{1}{2} - x, x, \frac{1}{4}]$	[3, -5]
4	$[-X, -X, Z]$	$[x, \frac{1}{2} - x, \frac{1}{4}]$	[4, -6]
5	$[-X, X, -Z]$	$[-x, -x, \frac{3}{4}]$	[9, -15]
6	$[X, -X, -Z]$	$[x + \frac{1}{2}, x + \frac{1}{2}, \frac{3}{4}]$	[10, -16]
7	$[-X, -X, -Z]$	$[x + \frac{1}{2}, -x, \frac{3}{4}]$	[11, -13]
8	$[X, X, -Z]$	$[-x, x + \frac{1}{2}, \frac{3}{4}]$	[12, -14]

Table 33: Wyckoff bond: **8b@8h**

No.	vector	center	mapping
1	$[X, X, 0]$	$[x, x, \frac{1}{4}]$	[1, 7]
2	$[-X, -X, 0]$	$[\frac{1}{2} - x, \frac{1}{2} - x, \frac{1}{4}]$	[2, 8]
3	$[-X, X, 0]$	$[\frac{1}{2} - x, x, \frac{1}{4}]$	[3, 5]
4	$[X, -X, 0]$	$[x, \frac{1}{2} - x, \frac{1}{4}]$	[4, 6]
5	$[-X, -X, 0]$	$[-x, -x, \frac{3}{4}]$	[9, 15]
6	$[X, X, 0]$	$[x + \frac{1}{2}, x + \frac{1}{2}, \frac{3}{4}]$	[10, 16]
7	$[X, -X, 0]$	$[x + \frac{1}{2}, -x, \frac{3}{4}]$	[11, 13]
8	$[-X, X, 0]$	$[-x, x + \frac{1}{2}, \frac{3}{4}]$	[12, 14]

Table 34: Wyckoff bond: **16c@8h**

No.	vector	center	mapping
1	$[X, Y, Z]$	$[x, x, \frac{1}{4}]$	[1]
2	$[-X, -Y, Z]$	$[\frac{1}{2} - x, \frac{1}{2} - x, \frac{1}{4}]$	[2]
3	$[-Y, X, Z]$	$[\frac{1}{2} - x, x, \frac{1}{4}]$	[3]
4	$[Y, -X, Z]$	$[x, \frac{1}{2} - x, \frac{1}{4}]$	[4]
5	$[-X, Y, -Z]$	$[\frac{1}{2} - x, x, \frac{1}{4}]$	[5]
6	$[X, -Y, -Z]$	$[x, \frac{1}{2} - x, \frac{1}{4}]$	[6]
7	$[Y, X, -Z]$	$[x, x, \frac{1}{4}]$	[7]
8	$[-Y, -X, -Z]$	$[\frac{1}{2} - x, \frac{1}{2} - x, \frac{1}{4}]$	[8]
9	$[-X, -Y, -Z]$	$[-x, -x, \frac{3}{4}]$	[9]
10	$[X, Y, -Z]$	$[x + \frac{1}{2}, x + \frac{1}{2}, \frac{3}{4}]$	[10]
11	$[Y, -X, -Z]$	$[x + \frac{1}{2}, -x, \frac{3}{4}]$	[11]
12	$[-Y, X, -Z]$	$[-x, x + \frac{1}{2}, \frac{3}{4}]$	[12]
13	$[X, -Y, Z]$	$[x + \frac{1}{2}, -x, \frac{3}{4}]$	[13]
14	$[-X, Y, Z]$	$[-x, x + \frac{1}{2}, \frac{3}{4}]$	[14]
15	$[-Y, -X, Z]$	$[-x, -x, \frac{3}{4}]$	[15]
16	$[Y, X, Z]$	$[x + \frac{1}{2}, x + \frac{1}{2}, \frac{3}{4}]$	[16]

* Wyckoff site: **8i**, site symmetry: **.2**.

Table 35: Wyckoff bond: **8a@8i**

No.	vector	center	mapping
1	$[0, X, Z]$	$[x, \frac{1}{4}, \frac{1}{4}]$	[1, -6]
2	$[0, -X, Z]$	$[\frac{1}{2} - x, \frac{1}{4}, \frac{1}{4}]$	[2, -5]
3	$[-X, 0, Z]$	$[\frac{1}{4}, x, \frac{1}{4}]$	[3, -7]
4	$[X, 0, Z]$	$[\frac{1}{4}, \frac{1}{2} - x, \frac{1}{4}]$	[4, -8]
5	$[0, -X, -Z]$	$[-x, \frac{3}{4}, \frac{3}{4}]$	[9, -14]
6	$[0, X, -Z]$	$[x + \frac{1}{2}, \frac{3}{4}, \frac{3}{4}]$	[10, -13]
7	$[X, 0, -Z]$	$[\frac{3}{4}, -x, \frac{3}{4}]$	[11, -15]
8	$[-X, 0, -Z]$	$[\frac{3}{4}, x + \frac{1}{2}, \frac{3}{4}]$	[12, -16]

Table 36: Wyckoff bond: **8b@8i**

No.	vector	center	mapping
1	$[X, 0, 0]$	$[x, \frac{1}{4}, \frac{1}{4}]$	[1, 6]
2	$[-X, 0, 0]$	$[\frac{1}{2} - x, \frac{1}{4}, \frac{1}{4}]$	[2, 5]
3	$[0, X, 0]$	$[\frac{1}{4}, x, \frac{1}{4}]$	[3, 7]
4	$[0, -X, 0]$	$[\frac{1}{4}, \frac{1}{2} - x, \frac{1}{4}]$	[4, 8]
5	$[-X, 0, 0]$	$[-x, \frac{3}{4}, \frac{3}{4}]$	[9, 14]
6	$[X, 0, 0]$	$[x + \frac{1}{2}, \frac{3}{4}, \frac{3}{4}]$	[10, 13]
7	$[0, -X, 0]$	$[\frac{3}{4}, -x, \frac{3}{4}]$	[11, 15]
8	$[0, X, 0]$	$[\frac{3}{4}, x + \frac{1}{2}, \frac{3}{4}]$	[12, 16]

Table 37: Wyckoff bond: **16c08i**

No.	vector	center	mapping
1	$[X, Y, Z]$	$[x, \frac{1}{4}, \frac{1}{4}]$	[1]
2	$[-X, -Y, Z]$	$[\frac{1}{2} - x, \frac{1}{4}, \frac{1}{4}]$	[2]
3	$[-Y, X, Z]$	$[\frac{1}{4}, x, \frac{1}{4}]$	[3]
4	$[Y, -X, Z]$	$[\frac{1}{4}, \frac{1}{2} - x, \frac{1}{4}]$	[4]
5	$[-X, Y, -Z]$	$[\frac{1}{2} - x, \frac{1}{4}, \frac{1}{4}]$	[5]
6	$[X, -Y, -Z]$	$[x, \frac{1}{4}, \frac{1}{4}]$	[6]
7	$[Y, X, -Z]$	$[\frac{1}{4}, x, \frac{1}{4}]$	[7]
8	$[-Y, -X, -Z]$	$[\frac{1}{4}, \frac{1}{2} - x, \frac{1}{4}]$	[8]
9	$[-X, -Y, -Z]$	$[-x, \frac{3}{4}, \frac{3}{4}]$	[9]
10	$[X, Y, -Z]$	$[x + \frac{1}{2}, \frac{3}{4}, \frac{3}{4}]$	[10]
11	$[Y, -X, -Z]$	$[\frac{3}{4}, -x, \frac{3}{4}]$	[11]
12	$[-Y, X, -Z]$	$[\frac{3}{4}, x + \frac{1}{2}, \frac{3}{4}]$	[12]
13	$[X, -Y, Z]$	$[x + \frac{1}{2}, \frac{3}{4}, \frac{3}{4}]$	[13]
14	$[-X, Y, Z]$	$[-x, \frac{3}{4}, \frac{3}{4}]$	[14]
15	$[-Y, -X, Z]$	$[\frac{3}{4}, -x, \frac{3}{4}]$	[15]
16	$[Y, X, Z]$	$[\frac{3}{4}, x + \frac{1}{2}, \frac{3}{4}]$	[16]

* Wyckoff site: 8j, site symmetry: .2.

Table 38: Wyckoff bond: **8a08j**

No.	vector	center	mapping
1	$[0, X, Z]$	$[x, \frac{3}{4}, \frac{1}{4}]$	[1, -6]
2	$[0, -X, Z]$	$[\frac{1}{2} - x, \frac{3}{4}, \frac{1}{4}]$	[2, -5]
3	$[-X, 0, Z]$	$[\frac{3}{4}, x, \frac{1}{4}]$	[3, -7]
4	$[X, 0, Z]$	$[\frac{3}{4}, \frac{1}{2} - x, \frac{1}{4}]$	[4, -8]
5	$[0, -X, -Z]$	$[-x, \frac{1}{4}, \frac{3}{4}]$	[9, -14]
6	$[0, X, -Z]$	$[x + \frac{1}{2}, \frac{1}{4}, \frac{3}{4}]$	[10, -13]
7	$[X, 0, -Z]$	$[\frac{1}{4}, -x, \frac{3}{4}]$	[11, -15]
8	$[-X, 0, -Z]$	$[\frac{1}{4}, x + \frac{1}{2}, \frac{3}{4}]$	[12, -16]

Table 39: Wyckoff bond: **8b08j**

No.	vector	center	mapping
1	$[X, 0, 0]$	$[x, \frac{3}{4}, \frac{1}{4}]$	[1, 6]
2	$[-X, 0, 0]$	$[\frac{1}{2} - x, \frac{3}{4}, \frac{1}{4}]$	[2, 5]
3	$[0, X, 0]$	$[\frac{3}{4}, x, \frac{1}{4}]$	[3, 7]
4	$[0, -X, 0]$	$[\frac{3}{4}, \frac{1}{2} - x, \frac{1}{4}]$	[4, 8]
5	$[-X, 0, 0]$	$[-x, \frac{1}{4}, \frac{3}{4}]$	[9, 14]
6	$[X, 0, 0]$	$[x + \frac{1}{2}, \frac{1}{4}, \frac{3}{4}]$	[10, 13]

continued ...

Table 39

No.	vector	center	mapping
7	$[0, -X, 0]$	$[\frac{1}{4}, -x, \frac{3}{4}]$	[11, 15]
8	$[0, X, 0]$	$[\frac{1}{4}, x + \frac{1}{2}, \frac{3}{4}]$	[12, 16]

Table 40: Wyckoff bond: 16c@8j

No.	vector	center	mapping
1	$[X, Y, Z]$	$[x, \frac{3}{4}, \frac{1}{4}]$	[1]
2	$[-X, -Y, Z]$	$[\frac{1}{2} - x, \frac{3}{4}, \frac{1}{4}]$	[2]
3	$[-Y, X, Z]$	$[\frac{3}{4}, x, \frac{1}{4}]$	[3]
4	$[Y, -X, Z]$	$[\frac{3}{4}, \frac{1}{2} - x, \frac{1}{4}]$	[4]
5	$[-X, Y, -Z]$	$[\frac{1}{2} - x, \frac{3}{4}, \frac{1}{4}]$	[5]
6	$[X, -Y, -Z]$	$[x, \frac{3}{4}, \frac{1}{4}]$	[6]
7	$[Y, X, -Z]$	$[\frac{3}{4}, x, \frac{1}{4}]$	[7]
8	$[-Y, -X, -Z]$	$[\frac{3}{4}, \frac{1}{2} - x, \frac{1}{4}]$	[8]
9	$[-X, -Y, -Z]$	$[-x, \frac{1}{4}, \frac{3}{4}]$	[9]
10	$[X, Y, -Z]$	$[x + \frac{1}{2}, \frac{1}{4}, \frac{3}{4}]$	[10]
11	$[Y, -X, -Z]$	$[\frac{1}{4}, -x, \frac{3}{4}]$	[11]
12	$[-Y, X, -Z]$	$[\frac{1}{4}, x + \frac{1}{2}, \frac{3}{4}]$	[12]
13	$[X, -Y, Z]$	$[x + \frac{1}{2}, \frac{1}{4}, \frac{3}{4}]$	[13]
14	$[-X, Y, Z]$	$[-x, \frac{1}{4}, \frac{3}{4}]$	[14]
15	$[-Y, -X, Z]$	$[\frac{1}{4}, -x, \frac{3}{4}]$	[15]
16	$[Y, X, Z]$	$[\frac{1}{4}, x + \frac{1}{2}, \frac{3}{4}]$	[16]

* Wyckoff site: 16k, site symmetry: 1

Table 41: Wyckoff bond: 16a@16k

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

continued ...

Table 41

No.	vector	center	mapping
15	$[-Y, -X, Z]$	$[-y, -x, z + \frac{1}{2}]$	[15]
16	$[Y, X, Z]$	$[y + \frac{1}{2}, x + \frac{1}{2}, z + \frac{1}{2}]$	[16]