

*cm*

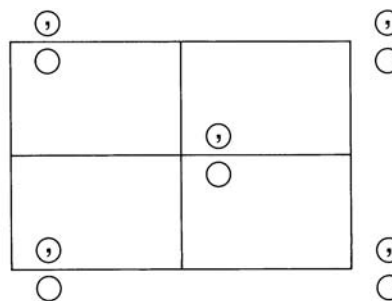
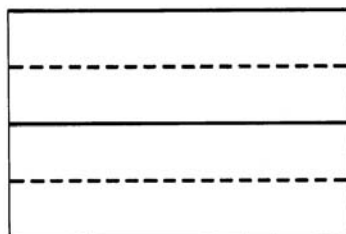
*m*

Rectangular

No. 5

*c1m1*

Patterson symmetry *c2mm*



Origin on *m*

Asymmetric unit  $0 \leq x \leq \frac{1}{2}; 0 \leq y \leq \frac{1}{2}$

Symmetry operations

For (0,0)+ set

(1) 1 (2) *m* 0,y

For ( $\frac{1}{2}, \frac{1}{2}$ )+ set

(1)  $t(\frac{1}{2}, \frac{1}{2})$  (2) *b*  $\frac{1}{4}, y$

Generators selected (1);  $t(1,0)$ ;  $t(0,1)$ ;  $t(\frac{1}{2}, \frac{1}{2})$ ; (2)

Positions

Multiplicity,	Coordinates
Wyckoff letter,	(0,0)+ ( $\frac{1}{2}, \frac{1}{2}$ )+
Site symmetry	

4 *b* 1 (1) *x*, *y* (2)  $\bar{x}$ , *y*

2 *a* . *m* . 0, *y*

Maximal non-isomorphic subgroups

**I** [2] *c1* (*p*1, 1) 1+

**IIa** [2] *pg* (4) 1; 2 + ( $\frac{1}{2}, \frac{1}{2}$ )  
[2] *pm* (3) 1; 2

**IIb** none

Maximal isomorphic subgroups of lowest index

**IIc** [3] *cm* (**a'** = 3**a**) (5); [3] *cm* (**b'** = 3**b**) (5)

Minimal non-isomorphic supergroups

**I** [2] *c2mm* (9); [3] *p3m1* (14); [3] *p31m* (15)

**II** [2] *pm* (**a'** =  $\frac{1}{2}$ **a**, **b'** =  $\frac{1}{2}$ **b**) (3)

Reflection conditions

General:

*hk*:  $h + k = 2n$

*h0*:  $h = 2n$

*0k*:  $k = 2n$

Special: no extra conditions