

$P2_1$

$C_2^2$

2

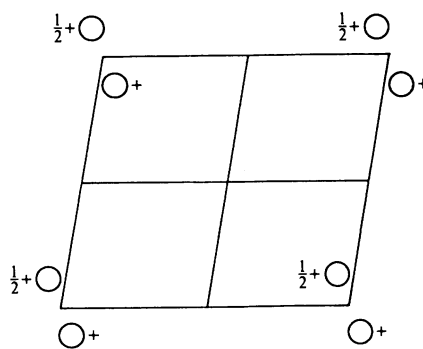
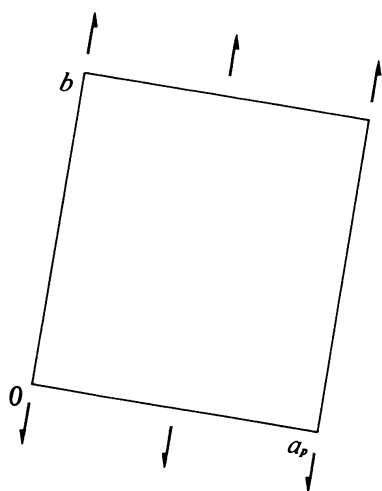
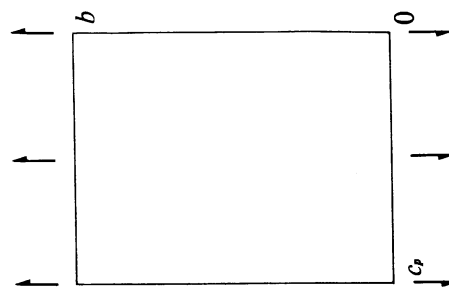
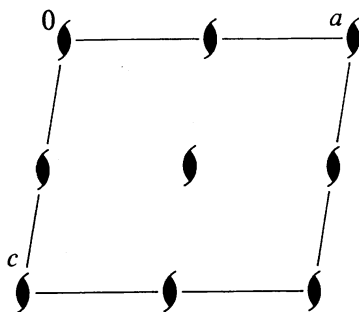
Monoclinic

No. 4

$P12_11$

Patterson symmetry  $P12/m1$

UNIQUE AXIS  $b$



Origin on  $2_1$

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

Symmetry operations

(1) 1 (2)  $2(0, \frac{1}{2}, 0) 0, y, 0$

Generators selected (1);  $t(1, 0, 0); t(0, 1, 0); t(0, 0, 1); (2)$

Positions

Multiplicity,  
Wyckoff letter,  
Site symmetry

Coordinates

Reflection conditions

2 a 1

(1)  $x, y, z$

(2)  $\bar{x}, y + \frac{1}{2}, \bar{z}$

General:

$0k0: k = 2n$

Symmetry of special projections

Along  $[001] p1g1$   
 $\mathbf{a}' = \mathbf{a}_p \quad \mathbf{b}' = \mathbf{b}$   
Origin at  $0, 0, z$

Along  $[100] p1g1$   
 $\mathbf{a}' = \mathbf{b} \quad \mathbf{b}' = \mathbf{c}_p$   
Origin at  $x, 0, 0$

Along  $[010] p2$   
 $\mathbf{a}' = \mathbf{c} \quad \mathbf{b}' = \mathbf{a}$   
Origin at  $0, y, 0$

Monoclinic

2

$C_2^2$

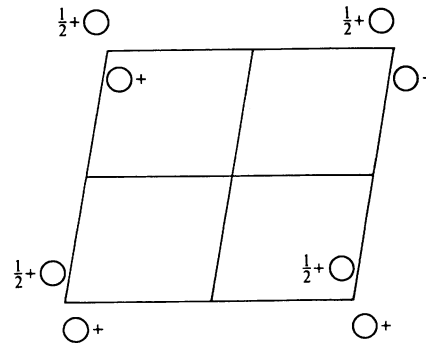
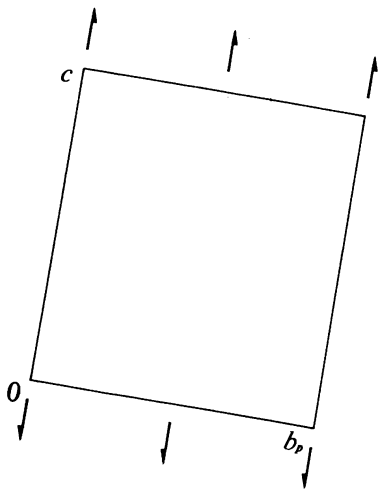
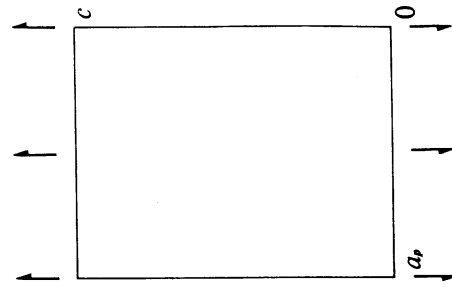
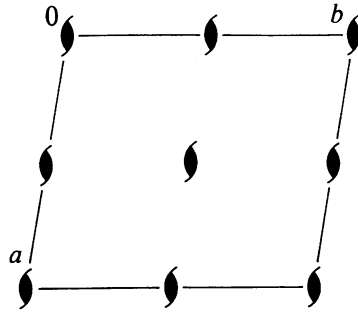
$P2_1$

Patterson symmetry  $P112/m$

$P112_1$

No. 4

UNIQUE AXIS  $c$



Origin on  $2_1$

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

Symmetry operations

(1) 1 (2)  $2(0, 0, \frac{1}{2})$   $0, 0, z$

Generators selected (1);  $t(1, 0, 0)$ ;  $t(0, 1, 0)$ ;  $t(0, 0, 1)$ ; (2)

Positions

Multiplicity,  
Wyckoff letter,  
Site symmetry

Coordinates

Reflection conditions

2 a 1

(1)  $x, y, z$

(2)  $\bar{x}, \bar{y}, z + \frac{1}{2}$

General:

$00l: l = 2n$

Symmetry of special projections

Along  $[001]$   $p2$   
 $\mathbf{a}' = \mathbf{a}$   $\mathbf{b}' = \mathbf{b}$   
Origin at  $0, 0, z$

Along  $[100]$   $p1g1$   
 $\mathbf{a}' = \mathbf{b}_p$   $\mathbf{b}' = \mathbf{c}$   
Origin at  $x, 0, 0$

Along  $[010]$   $p11g$   
 $\mathbf{a}' = \mathbf{c}$   $\mathbf{b}' = \mathbf{a}_p$   
Origin at  $0, y, 0$