

$P2$

C_2^1

2

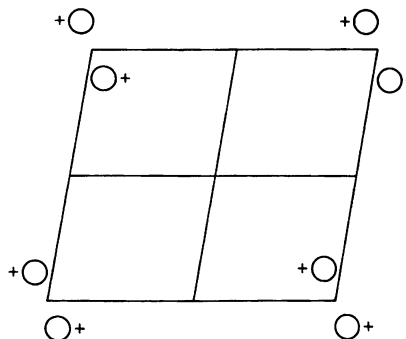
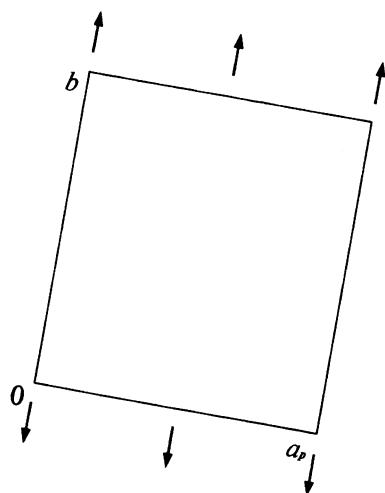
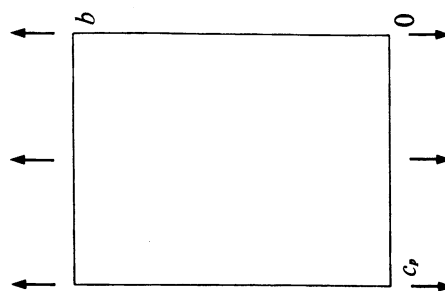
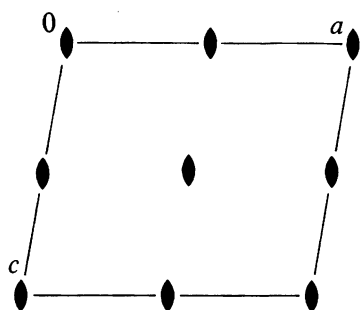
Monoclinic

No. 3

$P121$

Patterson symmetry $P12/m1$

UNIQUE AXIS b



Origin on 2

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 $0, y, 0$

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 e 1 (1) x, y, z (2) \bar{x}, y, \bar{z}

General:

no conditions

Special: no extra conditions

1 d 2 $\frac{1}{2}, y, \frac{1}{2}$

1 c 2 $\frac{1}{2}, y, 0$

1 b 2 $0, y, \frac{1}{2}$

1 a 2 $0, y, 0$

Symmetry of special projections

Along $[001]$ $p1m1$

$\mathbf{a}' = \mathbf{a}_p$ $\mathbf{b}' = \mathbf{b}$

Origin at $0, 0, z$

Along $[100]$ $p11m$

$\mathbf{a}' = \mathbf{b}$ $\mathbf{b}' = \mathbf{c}_p$

Origin at $x, 0, 0$

Along $[010]$ $p2$

$\mathbf{a}' = \mathbf{c}$ $\mathbf{b}' = \mathbf{a}$

Origin at $0, y, 0$

Monoclinic

2

C_2^1

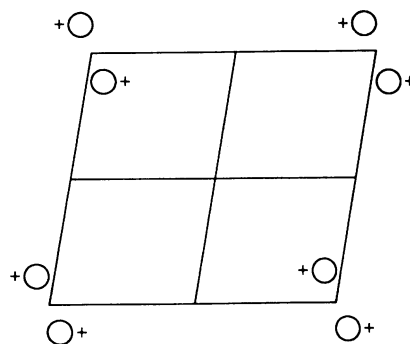
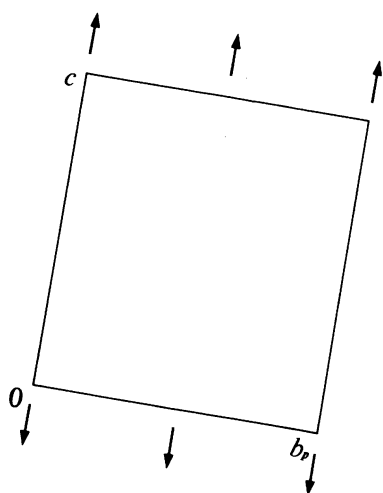
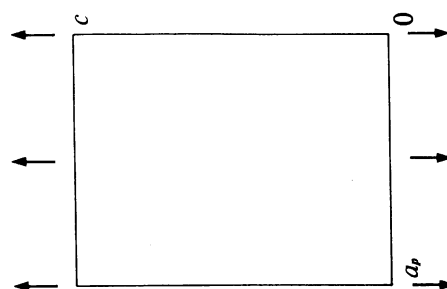
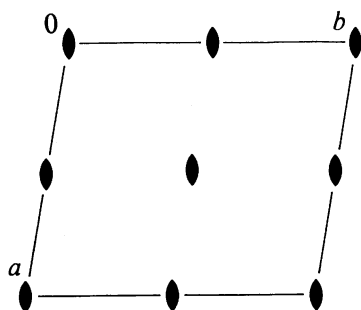
$P2$

Patterson symmetry $P112/m$

$P112$

No. 3

UNIQUE AXIS c



Origin on 2

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 $0,0,z$

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 e 1 (1) x,y,z (2) \bar{x},\bar{y},z

General:

no conditions

Special: no extra conditions

1 d 2 $\frac{1}{2}, \frac{1}{2}, z$

1 c 2 $0, \frac{1}{2}, z$

1 b 2 $\frac{1}{2}, 0, z$

1 a 2 $0, 0, z$

Symmetry of special projections

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

Along $[100]$ $p1m1$
 $\mathbf{a}' = \mathbf{b}'_p$ $\mathbf{b}' = \mathbf{c}$
Origin at $x,0,0$

Along $[010]$ $p11m$
 $\mathbf{a}' = \mathbf{c}$ $\mathbf{b}' = \mathbf{a}'_p$
Origin at $0,y,0$