

$\bar{p}2/c11$

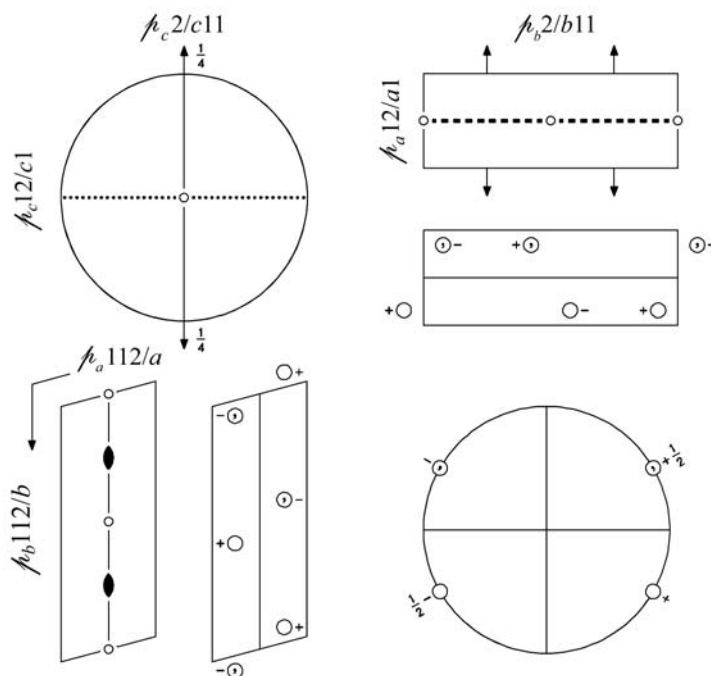
$2/m$

Monoclinic/Oblique

No. 7

$\bar{p}2/c11$

Patterson symmetry  $\bar{p}2/m11$



**Origin** at  $\bar{1}$  on glide plane  $c$

**Asymmetric unit**  $0 \leq x; 0 \leq y; 0 \leq z \leq 1$

**Symmetry operations**

- |             |                             |                       |                                |
|-------------|-----------------------------|-----------------------|--------------------------------|
| (1) 1       | (2) $2_x 0, 0, \frac{1}{4}$ | (3) $\bar{1} 0, 0, 0$ | (4) $c 0, y, z$                |
| (1 0, 0, 0) | (2_x 0, 0, $\frac{1}{2}$ )  | ( $\bar{1}$  0, 0, 0) | ( $m_x$  0, 0, $\frac{1}{2}$ ) |

**Generators selected** (1);  $t(0,0,1)$ ; (2); (3)

**Positions**

		Coordinates				Reflection conditions
						General:
Multiplicity, Wyckoff letter, Site symmetry		(1) $x, y, z$	(2) $x, \bar{y}, \bar{z} + \frac{1}{2}$	(3) $\bar{x}, \bar{y}, \bar{z}$	(4) $\bar{x}, y, z + \frac{1}{2}$	$l : l = 2n$
4	$c$ 1					Special: no extra conditions
2	$b$ 2	$x, 0, \frac{1}{4}$	$\bar{x}, 0, \frac{3}{4}$			
2	$a$ $\bar{1}$	$0, 0, 0$	$0, 0, \frac{1}{2}$			

**Symmetry of special projections**

Along $[001]$ $2mm$	Along $[100]$ $\cancel{2}11$	Along $[010]$ $\cancel{2}mg$
Origin at $0, 0, z$	$\mathbf{a}' = \frac{1}{2}\mathbf{c}$ Origin at $x, 0, 0$	$\mathbf{a}' = \mathbf{c}_p$ Origin at $0, y, 0$

**Maximal non-isotypic non-enantiomorphic subgroups**

<b>I</b>	$[2]\cancel{c}11$ (5)	1; 4
	$[2]\cancel{2}11$ (3)	1; 2
	$[2]\cancel{1}\bar{1}$ (2)	1; 3

**IIa** none

**IIb** none

**Maximal isotypic subgroups and enantiomorphic subgroups of lowest index**

**IIc**  $[3]\cancel{2}/c11$  ( $\mathbf{c}' = 3\mathbf{c}$ ) (7)

**Minimal non-isotypic non-enantiomorphic supergroups**

**I**  $[2]\cancel{c}cm$  (21);  $[2]\cancel{m}cm$  (22);  $[3]\cancel{3}1c$  (52)

**II**  $[2]\cancel{2}/m11$  ( $\mathbf{c}' = \frac{1}{2}\mathbf{c}$ ) (6)