

$\bar{p}2/c11$

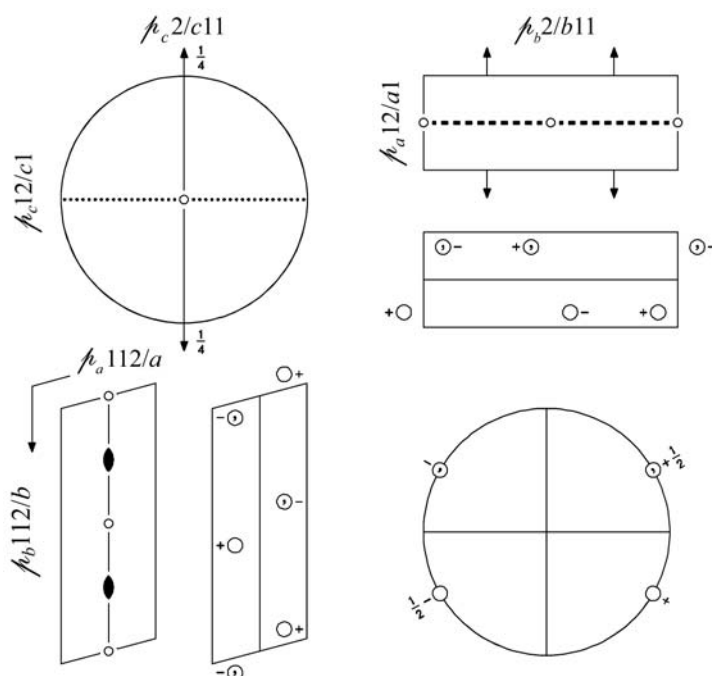
$2/m$

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) $2 \ x, 0, \frac{1}{4}$ (3) $\bar{1} \ 0, 0, 0$ (4) $c \ 0, y, z$

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

Positions

Multiplicity, Wyckoff letter, Site symmetry		Coordinates				Reflection conditions
						General:
4	c 1	(1) x, y, z	(2) $x, \bar{y}, \bar{z} + \frac{1}{2}$	(3) $\bar{x}, \bar{y}, \bar{z}$	(4) $\bar{x}, y, z + \frac{1}{2}$	$l : l = 2n$
						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

I	$[2]\cancel{c}11$ (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)