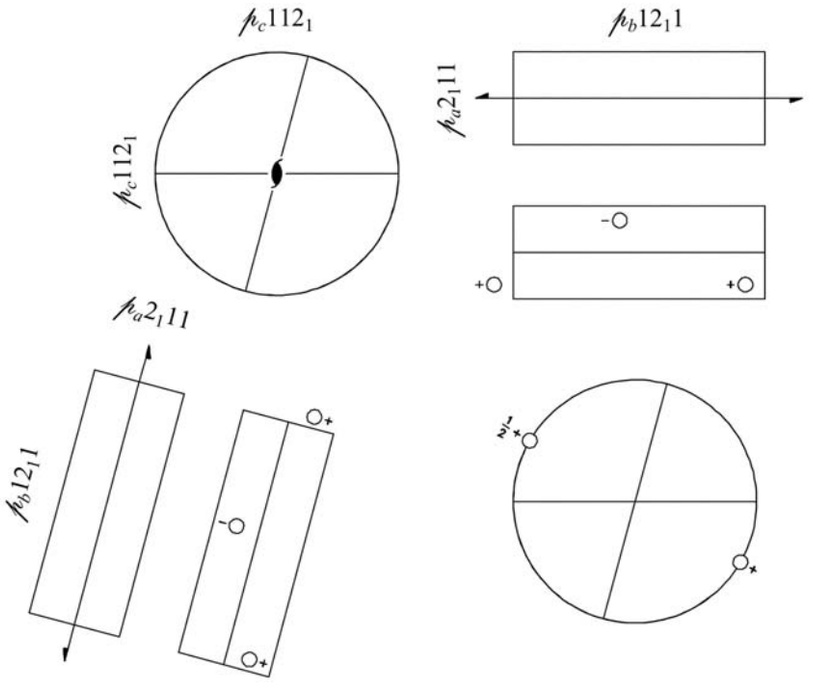
$p112_1$ 2 Monoclinic/Rectangular

No. 9 $p112_1$ Patterson symmetry $p112/m$



Origin on 2_1

Asymmetric unit $0 \le x; \quad 0 \le z \le 1$

Symmetry operations

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

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

Positions

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

Symmetry of special projections

Along [001] 2 1 1	Along [100] $\not{p}1\,1\,g$	Along [010] $\not{p}1\,1\,g$
	$\mathbf{a}'=\mathbf{c}$	$\mathbf{a}'=\mathbf{c}$
Origin at $0,0,z$	Origin at $x,0,0$	Origin at $0,y,0$

Maximal non-isotypic non-enantiomorphic subgroups

I [2] $\not{p}1$ (1) 1

IIa none

IIb none

Maximal isotypic subgroups and enantiomorphic subgroups of lowest index

IIc [3] $\not{p}1\,1\,2_1$ ($\mathbf{c}'=3\mathbf{c}$) (9)

Minimal non-isotypic non-enantiomorphic supergroups

I [2] $\not{p}1\,1\,2_1/m$ (12); [2] $\not{p}2\,2\,2_1$ (14); [2] $\not{p}m\,c\,2_1$ (17); [2] $\not{p}4_1$ (24); [2] $\not{p}4_3$ (26); [3] $\not{p}6_1$ (54); [3] $\not{p}6_3$ (56); [3] $\not{p}6_5$ (58)

II [2] $\not{p}1\,1\,2$ ($\mathbf{c}'=\frac{1}{2}\mathbf{c}$) (8)