

Monoclinic

6. SCANNING TABLES

 Laue class $C_{2h} - 2/m$

 No. 9 Cc
 C_s^4

 CELL CHOICE $\tilde{3}$
 $\mathcal{G} = I1c1$ UNIQUE AXIS b
 $\mathcal{G} = I11a$ UNIQUE AXIS c

Orientation orbit (hkl)	Conventional basis of the scanning group \mathbf{a}' \mathbf{b}' \mathbf{d}	Scanning group \mathcal{H}	Linear orbit $s\mathbf{d}$	Sectional layer group $\mathcal{L}(s\mathbf{d})$	
UNIQUE AXIS b (010)	\mathbf{c} \mathbf{a} \mathbf{b}	$I11a$	$[0\mathbf{d}, \frac{1}{2}\mathbf{d}]$	$p11a$	L05
UNIQUE AXIS c (001)	\mathbf{a} \mathbf{b} \mathbf{c}		$[\frac{1}{2}\mathbf{d}, \frac{3}{4}\mathbf{d}]$ $[\pm s\mathbf{d}, (\pm s + \frac{1}{2})\mathbf{d}]$	$p11b$ $p1$	L05 L01
UNIQUE AXIS b ($n0m$)	\mathbf{b} $n\mathbf{c} - m\mathbf{a}$ $p\mathbf{c} + q\mathbf{a}$				
UNIQUE AXIS c ($mn0$)	\mathbf{c} $na - mb$ $pa + qb$ n odd m even p even q odd n even m odd p odd q even n even m odd p odd q odd n odd m odd p even q odd n odd m odd p odd q even n odd m even p odd q odd	$Ib11$ $Ic11$ $Bn11$ $Cn11$ $Cc11$ $Bb11$	$[s\mathbf{d}, (s + \frac{1}{2})\mathbf{d}]$ $[s\mathbf{d}, (s + \frac{1}{2})\mathbf{d}]$ $[s\mathbf{d}, (s + \frac{1}{2})\mathbf{d}]$ $[s\mathbf{d}, (s + \frac{1}{2})\mathbf{d}]$ $[s\mathbf{d}, (s + \frac{1}{2})\mathbf{d}]$ $[s\mathbf{d}, (s + \frac{1}{2})\mathbf{d}]$	$pb11$ $pb11 (\mathbf{a}'/4)$ $pb11 (\mathbf{a}'/4)$ $\widehat{p}1$ $\widehat{p}1$ $pb11$	L12 L12 L12 L01 L01 L12

 Geometric class $C_{2h} - 112/m$

 No. 10 $P2/m$
 C_{2h}^1
 $\mathcal{G} = P12/m1$ UNIQUE AXIS b
 $\mathcal{G} = P112/m$ UNIQUE AXIS c

Orientation orbit (hkl)	Conventional basis of the scanning group \mathbf{a}' \mathbf{b}' \mathbf{d}	Scanning group \mathcal{H}	Linear orbit $s\mathbf{d}$	Sectional layer group $\mathcal{L}(s\mathbf{d})$	
UNIQUE AXIS b (010)	\mathbf{c} \mathbf{a} \mathbf{b}	$P112/m$	$0\mathbf{d}, \frac{1}{2}\mathbf{d}$	$p112/m$	L06
UNIQUE AXIS c (001)	\mathbf{a} \mathbf{b} \mathbf{c}		$[s\mathbf{d}, -s\mathbf{d}]$	$p112$	L03
UNIQUE AXIS b ($n0m$)	\mathbf{b} $n\mathbf{c} - m\mathbf{a}$ $p\mathbf{c} + q\mathbf{a}$	$P2/m11$	$0\mathbf{d}, \frac{1}{2}\mathbf{d}$	$p2/m11$	L14
UNIQUE AXIS c ($mn0$)	\mathbf{c} $na - mb$ $pa + qb$		$[s\mathbf{d}, -s\mathbf{d}]$	$pm11$	L11