

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

6. SCANNING TABLES

Monoclinic

 No. 11  $P2_1/m$ 
 $\mathcal{G} = P12_1/m1$  UNIQUE AXIS  $b$ 
 $C_{2h}^2$ 
 $\mathcal{G} = P112_1/m$  UNIQUE AXIS  $c$ 

Orientation orbit ( $hkl$ )	Conventional basis of the scanning group			Scanning group $\mathcal{H}$	Linear orbit $sd$	Sectional layer group $\mathcal{L}(sd)$	
	$a'$	$b'$	$d$				
UNIQUE AXIS $b$ (010)	$c$	$a$	$b$	$P112_1/m$	$[0d, \frac{1}{2}d]$	$p\bar{1}$	L02
UNIQUE AXIS $c$ (001)	$a$	$b$	$c$		$[\frac{1}{4}d, \frac{3}{4}d]$ $[\pm sd, (\pm s + \frac{1}{2})d]$	$p11m$ $p1$	L04 L01
UNIQUE AXIS $b$ ( $n0m$ )	$b$	$nc - ma$	$pc + qa$	$P2_1/m11$	$0d, \frac{1}{2}d$	$p2_1/m11$	L15
UNIQUE AXIS $c$ ( $mn0$ )	$c$	$na - mb$	$pa + qb$		$[sd, -sd]$	$pm11 (a'/4)$	L11

 No. 12  $C2/m$ 
 $\mathcal{G} = C12/m1$  UNIQUE AXIS  $b$ 
 $C_{2h}^3$ 

CELL CHOICE 1

 $\mathcal{G} = A112/m$  UNIQUE AXIS  $c$ 

Orientation orbit ( $hkl$ )	Conventional basis of the scanning group			Scanning group $\mathcal{H}$	Linear orbit $sd$	Sectional layer group $\mathcal{L}(sd)$	
	$a'$	$b'$	$d$				
UNIQUE AXIS $b$ (010)	$c$	$a$	$b$	$A112/m$	$[0d, \frac{1}{2}d]$	$p112/m$	L06
UNIQUE AXIS $c$ (001)	$a$	$b$	$c$		$[\frac{1}{4}d, \frac{3}{4}d]$ $[\pm sd, (\pm s + \frac{1}{2})d]$	$p112/b (b/4)$ $p112$	L07 L03
UNIQUE AXIS $b$ ( $n0m$ )	$b$	$nc - ma$	$pc + qa$	$B2/m11$	$[0d, \frac{1}{2}d]$	$p2/m11$	L14
UNIQUE AXIS $c$ ( $mn0$ )	$c$	$na - mb$	$pa + qb$		$[\frac{1}{4}d, \frac{3}{4}d]$ $[\pm sd, (\pm s + \frac{1}{2})d]$	$p2_1/m11 (a'/4)$ $pm11$	L15 L11
		$n$ even $p$ odd $n$ odd $p$ odd	$m$ odd		$C2/m11$	$0d, \frac{1}{2}d$ $[sd, -sd]$	$c2/m11$ $cm11$
		$n$ even $p$ odd $n$ odd $p$ odd		$I2/m11$	$[0d, \frac{1}{2}d]$ $[\frac{1}{4}d, \frac{3}{4}d]$ $[\pm sd, (\pm s + \frac{1}{2})d]$	$p2/m11$ $p2_1/m11 [(a' + b')/4]$ $pm11$	L14 L15 L11