

Scanning tables for the layer groups  
Supplementary information  
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**$p1$  No. 1**

Orientation $[uvw] = \mathbf{c}$	Scanning direction $\mathbf{d}$	Scanning group $(\mathbf{c}, \mathbf{d}, \mathbf{z})$	Location $s\mathbf{d}$	Sectional rod group $(\mathbf{d}, \mathbf{z}, \mathbf{c})$
[100]	[010]	$p1$ L1	$s$	$\rho 1$ R1
Orientation $[uv0] = \mathbf{c}$	Scanning direction $\mathbf{d} = [pq0]$	Scanning group $(\mathbf{c}, \mathbf{d}, \mathbf{z})$		
Any $u, v$	Any $p, q$	$p1$ L1		

**$p\bar{1}$  No. 2**

Orientation $[uvw] = \mathbf{c}$	Scanning direction $\mathbf{d}$	Scanning group $(\mathbf{c}, \mathbf{d}, \mathbf{z})$	Location $s\mathbf{d}$	Sectional rod group $(\mathbf{d}, \mathbf{z}, \mathbf{c})$
[100]	[010]	$p\bar{1}$ L2	0, 1/2 $[s, -s]$	$\rho \bar{1}$ R2 $\rho 1$ R1
Orientation $[uv0] = \mathbf{c}$	Scanning direction $\mathbf{d} = [pq0]$	Scanning group $(\mathbf{c}, \mathbf{d}, \mathbf{z})$		
Any $u, v$	Any $p, q$	$p\bar{1}$ L2		

**$p112$  No. 3**

Orientation $[uvw] = \mathbf{c}$	Scanning direction $\mathbf{d}$	Scanning group $(\mathbf{c}, \mathbf{d}, \mathbf{z})$	Location $s\mathbf{d}$	Sectional rod group $(\mathbf{d}, \mathbf{z}, \mathbf{c})$
[100]	[010]	$p112$ L3	0, 1/2 $[s, -s]$	$\rho 121$ R3 $\rho 1$ R1
Orientation $[uv0] = \mathbf{c}$	Scanning direction $\mathbf{d} = [pq0]$	Scanning group $(\mathbf{c}, \mathbf{d}, \mathbf{z})$		
Any $u, v$	Any $p, q$	$p112$ L3		

***p11m* No. 4**

Orientation $[uvw] = \mathbf{c}$	Scanning direction $\mathbf{d}$	Scanning group ( $\mathbf{c}, \mathbf{d}, \mathbf{z}$ )	Location $s\mathbf{d}$	Sectional rod group ( $\mathbf{d}, \mathbf{z}, \mathbf{c}$ )
[100]	[010]	<i>p11m</i> L4	$s$	$\rho 1m1$ R4
Orientation $[uv0] = \mathbf{c}$	Scanning direction $\mathbf{d} = [pq0]$	Scanning group ( $\mathbf{c}, \mathbf{d}, \mathbf{z}$ )		
Any $u, v$	Any $p, q$	<i>p11m</i> L4		

***p11a* No. 5**

Orientation $[uvw] = \mathbf{c}$	Scanning direction $\mathbf{d}$	Scanning group ( $\mathbf{c}, \mathbf{d}, \mathbf{z}$ )	Location $s\mathbf{d}$	Sectional rod group ( $\mathbf{d}, \mathbf{z}, \mathbf{c}$ )
[100]	[010]	<i>p11a</i> L5	$s$	$\rho 1c1$ R5
[010]	$[\bar{1}00]$	<i>p11b</i> L5	$[s, (s + \frac{1}{2})]$	$\rho 1$ R1
[010]	$[\bar{1}\bar{1}0]$	<i>p11n</i> L5	$[s, (s + \frac{1}{2})]$	$\rho 1$ R1
Orientation $[uv0] = \mathbf{c}$	Scanning direction $\mathbf{d} = [pq0]$	Scanning group ( $\mathbf{c}, \mathbf{d}, \mathbf{z}$ )		
Odd $u$ , even $v$	Odd $q$	<i>p11a</i> L5		
Any $u$ , odd $v$	Even $q$	<i>p11b</i> L5		
Any $u$ , odd $v$	Odd $q$	<i>p11n</i> L5		

***p112/m* No. 6**

Orientation $[uvw] = \mathbf{c}$	Scanning direction $\mathbf{d}$	Scanning group ( $\mathbf{c}, \mathbf{d}, \mathbf{z}$ )	Location $s\mathbf{d}$	Sectional rod group ( $\mathbf{d}, \mathbf{z}, \mathbf{c}$ )
[100]	[010]	<i>p112/m</i> L6	0, 1/2 $[s, -s]$	$\rho 12/m1$ R6 $\rho 1m1$ R4
Orientation $[uv0] = \mathbf{c}$	Scanning direction $\mathbf{d} = [pq0]$	Scanning group ( $\mathbf{c}, \mathbf{d}, \mathbf{z}$ )		
Any $u, v$	Any $p, q$	<i>p112/m</i> L6		

**$p112/a$  No. 7**

Orientation $[uvw] = \mathbf{c}$	Scanning direction $\mathbf{d}$	Scanning group ( $\mathbf{c}, \mathbf{d}, \mathbf{z}$ )	Location $s\mathbf{d}$	Sectional rod group ( $\mathbf{d}, \mathbf{z}, \mathbf{c}$ )
[100]	[010]	$p112/a$ L7	0, 1/2 [ $s, -s$ ]	$\rho^{12/c1}$ R7 $\rho^{1c1}$ R5
[010]	$[\bar{1}00]$	$p112/b$ L7	[0, 1/2] [1/4, 3/4] [ $\pm s, (\frac{1}{2} \pm s)$ ]	$\rho^{\bar{1}}$ R2 $\rho^{121}$ R3 $\rho^1$ R1
[010]	$[\bar{1}\bar{1}0]$	$p112/n$ L7	[0, 1/2] [1/4, 3/4] [ $\pm s, (\frac{1}{2} \pm s)$ ]	$\rho^{\bar{1}}$ R2 $\rho^{121}$ [1/4] R3 $\rho^1$ R1
Orientation $[uv0] = \mathbf{c}$	Scanning direction $\mathbf{d} = [pq0]$	Scanning group ( $\mathbf{c}, \mathbf{d}, \mathbf{z}$ )		
Odd $u$ , even $v$	Odd $q$	$p112/a$ L7		
Any $u$ , odd $v$	Even $q$	$p112/b$ L7		
Any $u$ , odd $v$	Odd $q$	$p112/n$ L7		

**$p211$  No. 8**

Orientation $[uvw] = \mathbf{c}$	Scanning direction $\mathbf{d}$	Scanning group ( $\mathbf{c}, \mathbf{d}, \mathbf{z}$ )	Location $s\mathbf{d}$	Sectional rod group ( $\mathbf{d}, \mathbf{z}, \mathbf{c}$ )
[100]	[010]	$p211$ L8	0, 1/2 [ $s, -s$ ]	$\rho^{112}$ R8 $\rho^1$ R1
[010]	$[\bar{1}00]$	$p121$ L8	$s$	$\rho^{211}$ R3
Orientation $[uv0] = \mathbf{c}$	Scanning direction $\mathbf{d} = [pq0]$	Scanning group ( $\mathbf{c}, \mathbf{d}, \mathbf{z}$ )		
Any $u, v$	Any $p, q$	$p1$ L1		

**$p2_111$  No. 9**

Orientation $[uvw] = \mathbf{c}$	Scanning direction $\mathbf{d}$	Scanning group ( $\mathbf{c}, \mathbf{d}, \mathbf{z}$ )	Location $s\mathbf{d}$	Sectional rod group ( $\mathbf{d}, \mathbf{z}, \mathbf{c}$ )
[100]	[010]	$p2_111$ L9	0, 1/2 [ $s, -s$ ]	$\rho^{112}_1$ R9 $\rho^1$ R1
[010]	$[\bar{1}00]$	$p12_11$ L9	[ $s, (s + \frac{1}{2})$ ]	$\rho^1$ R1
Orientation $[uv0] = \mathbf{c}$	Scanning direction $\mathbf{d} = [pq0]$	Scanning group ( $\mathbf{c}, \mathbf{d}, \mathbf{z}$ )		
Any $u, v$	Any $p, q$	$p1$ L1		

**$c211$  No. 10**

Orientation $[uvw] = \mathbf{c}$	Scanning direction $\mathbf{d}$	Scanning group ( $\mathbf{c}, \mathbf{d}, \mathbf{z}$ )	Location $s\mathbf{d}$	Sectional rod group ( $\mathbf{d}, \mathbf{z}, \mathbf{c}$ )
[100]	[010]	$c211$ L10	[0, 1/2] [1/4, 3/4] [ $\pm s, (\frac{1}{2} \pm s)$ ]	$\rho^{112}$ R8 $\rho^{112}_1$ R9 $\rho^1$ R1
[010]	$[\bar{1}00]$	$c121$ L10	[ $s, (s + \frac{1}{2})$ ]	$\rho^{211}$ R3
Orientation $[uv0]$	$\mathbf{c}$	Scanning direction $\mathbf{d} = [(p+q)/2, (p-q)/2, 0]$	Scanning group ( $\mathbf{c}, \mathbf{d}, \mathbf{z}$ )	
Odd $u$ , odd $v$ Even $u$ OR even $v$	[ $u, v, 0$ ]/2 [ $u, v, 0$ ]	Any $p, q$	$p1$ L1	

**$pm11$  No. 11**

Orientation $[uvw] = \mathbf{c}$	Scanning direction $\mathbf{d}$	Scanning group ( $\mathbf{c}, \mathbf{d}, \mathbf{z}$ )	Location $s\mathbf{d}$	Sectional rod group ( $\mathbf{d}, \mathbf{z}, \mathbf{c}$ )
[100]	[010]	$pm11$ L11	$s$	$\rho^{11m}$ R10
[010]	$[\bar{1}00]$	$p1m1$ L11	0, 1/2 [ $s, -s$ ]	$\rho^{m11}$ R4 $\rho^1$ R1
Orientation $[uv0] = \mathbf{c}$	Scanning direction $\mathbf{d} = [pq0]$	Scanning group ( $\mathbf{c}, \mathbf{d}, \mathbf{z}$ )		
Any $u, v$	Any $p, q$	$p1$ L1		

***pb11* No. 12**

Orientation [uvw] = <b>c</b>	Scanning direction <b>d</b>	Scanning group ( <b>c, d, z</b> )	Location <b>sd</b>	Sectional rod group ( <b>d, z, c</b> )
[100]	[010]	<i>pb11</i> L12	$[s, (s + \frac{1}{2})]$	$\rho 1$ R1
[010]	$[\bar{1}00]$	<i>p1a1</i> L12	0, 1/2 $[s, -s]$	$\rho c11$ R5 $\rho 1$ R1
Orientation [uv0] = <b>c</b>	Scanning direction <b>d</b> = [pq0]	Scanning group ( <b>c, d, z</b> )		
Any <i>u, v</i>	Any <i>p, q</i>	<i>p1</i> L1		

***cm11* No. 13**

Orientation [uvw] = <b>c</b>	Scanning direction <b>d</b>	Scanning group ( <b>c, d, z</b> )	Location <b>sd</b>	Sectional rod group ( <b>d, z, c</b> )
[100]	[010]	<i>cm11</i> L13	$[s, (s + \frac{1}{2})]$	$\rho 11m$ R10
[010]	$[\bar{1}00]$	<i>c1m1</i> L13	0, 1/2 1/4, 3/4 $[\pm s, (\frac{1}{2} \pm s)]$	$\rho m11$ R4 $\rho c11$ R5 $\rho 1$ R1
Orientation [uv0]	<b>c</b>	Scanning direction <b>d</b> = [( <i>p</i> + <i>q</i> )/2, ( <i>p</i> − <i>q</i> )/2, 0]		Scanning group ( <b>c, d, z</b> )
Odd <i>u</i> , odd <i>v</i> Even <i>u</i> OR even <i>v</i>	[ <i>u, v</i> , 0]/2 [ <i>u, v</i> , 0]	Any <i>p, q</i>		<i>p1</i> L1

***p2/m11* No. 14**

Orientation [uvw] = <b>c</b>	Scanning direction <b>d</b>	Scanning group ( <b>c, d, z</b> )	Location <b>sd</b>	Sectional rod group ( <b>d, z, c</b> )
[100]	[010]	<i>p2/m11</i> L14	0, 1/2 $[s, -s]$	$\rho 112/m$ R11 $\rho 11m$ R10
[010]	$[\bar{1}00]$	<i>p12/m1</i> L14	0, 1/2 $[s, -s]$	$\rho 2/m11$ R6 $\rho 211$ R3
Orientation [uv0] = <b>c</b>	Scanning direction <b>d</b> = [pq0]	Scanning group ( <b>c, d, z</b> )		
Any <i>u, v</i>	Any <i>p, q</i>	$p\bar{1}$ L2		

**$p2_1/m11$  No. 15**

Orientation [uvw] = <b>c</b>	Scanning direction <b>d</b>	Scanning group ( <b>c, d, z</b> )	Location <b>sd</b>	Sectional rod group ( <b>d, z, c</b> )
[100]	[010]	$p2_1/m11$ L15	0, 1/2 [s, -s]	$\rho 112_1/m$ R12 $\rho 11m$ [1/4] R10
[010]	$[\bar{1}00]$	$p12_1/m1$ L15	[0, 1/2] [1/4, 3/4] [ $\pm s, (\frac{1}{2} \pm s)$ ]	$\rho \bar{1}$ R2 $\rho m11$ R4 $\rho 1$ R1
Orientation [uv0] = <b>c</b>	Scanning direction <b>d</b> = [pq0]	Scanning group ( <b>c, d, z</b> )		
Any $u, v$	Any $p, q$	$p\bar{1}$ L2		

**$p2/b11$  No. 16**

Orientation [uvw] = <b>c</b>	Scanning direction <b>d</b>	Scanning group ( <b>c, d, z</b> )	Location <b>sd</b>	Sectional rod group ( <b>d, z, c</b> )
[100]	[010]	$p2/b11$ L16	[0, 1/2] [1/4, 3/4] [ $\pm s, (\frac{1}{2} \pm s)$ ]	$\rho \bar{1}$ R2 $\rho 112$ R8 $\rho 1$ R1
[010]	$[\bar{1}00]$	$p12/a1$ L16	0, 1/2 [s, -s]	$\rho 2/c11$ R7 $\rho 211$ [1/4] R3
Orientation [uv0] = <b>c</b>	Scanning direction <b>d</b> = [pq0]	Scanning group ( <b>c, d, z</b> )		
Any $u, v$	Any $p, q$	$p\bar{1}$ L2		

**$p2_1/b11$  No. 17**

Orientation $[uvw] = \mathbf{c}$	Scanning direction $\mathbf{d}$	Scanning group ( $\mathbf{c}, \mathbf{d}, \mathbf{z}$ )	Location $s\mathbf{d}$	Sectional rod group ( $\mathbf{d}, \mathbf{z}, \mathbf{c}$ )
[100]	[010]	$p2_1/b11$ L17	$[0, 1/2]$ $[1/4, 3/4]$ $[\pm s, (\frac{1}{2} \pm s)]$	$\rho \bar{1}$ R2 $\rho 112_1$ R9 $\rho 1$ R1
[010]	$[\bar{1}00]$	$p12_1/a1$ L17	$[0, 1/2]$ $[1/4, 3/4]$ $[\pm s, (\frac{1}{2} \pm s)]$	$\rho \bar{1}$ R2 $\rho c11$ R5 $\rho 1$ R1
Orientation $[uv0] = \mathbf{c}$	Scanning direction $\mathbf{d} = [pq0]$	Scanning group ( $\mathbf{c}, \mathbf{d}, \mathbf{z}$ )		
Any $u, v$	Any $p, q$	$p\bar{1}$ L2		

**$c2/m11$  No. 18**

Orientation $[uvw] = \mathbf{c}$	Scanning direction $\mathbf{d}$	Scanning group ( $\mathbf{c}, \mathbf{d}, \mathbf{z}$ )	Location $s\mathbf{d}$	Sectional rod group ( $\mathbf{d}, \mathbf{z}, \mathbf{c}$ )
[100]	[010]	$c2/m11$ L18	$[0, 1/2]$ $[1/4, 3/4]$ $[\pm s, (\frac{1}{2} \pm s)]$	$\rho 112/m$ R11 $\rho 112_1/m$ [1/4] R12 $\rho 11m$ R10
[010]	$[\bar{1}00]$	$c12/m1$ L18	$[0, 1/2]$ $[1/4, 3/4]$ $[\pm s, (\frac{1}{2} \pm s)]$	$\rho 2/m11$ R6 $\rho 2/c11$ [1/4] R7 $\rho 211$ R3
Orientation $[uv0]$	$\mathbf{c}$	Scanning direction $\mathbf{d} = [(p+q)/2, (p-q)/2, 0]$	Scanning group ( $\mathbf{c}, \mathbf{d}, \mathbf{z}$ )	
Odd $u$ , odd $v$ Even $u$ OR even $v$	$[u, v, 0]/2$ $[u, v, 0]$	Any $p, q$	$p\bar{1}$ L2	

**$p222$  No. 19**

Orientation $[uvw] = \mathbf{c}$	Scanning direction $\mathbf{d}$	Scanning group ( $\mathbf{c}, \mathbf{d}, \mathbf{z}$ )	Location $s\mathbf{d}$	Sectional rod group ( $\mathbf{d}, \mathbf{z}, \mathbf{c}$ )
$[100]$ $[010]$	$[010]$ $[\bar{1}00]$	$p222$ L19	$0, 1/2$ $[s, -s]$	$\rho 222$ R13 $\rho 211$ R3
Orientation $[uv0] = \mathbf{c}$	Scanning direction $\mathbf{d} = [pq0]$	Scanning group ( $\mathbf{c}, \mathbf{d}, \mathbf{z}$ )		
Any $u, v$	Any $p, q$	$p112$ L3		

**$p2_122$  No. 20**

Orientation $[uvw] = \mathbf{c}$	Scanning direction $\mathbf{d}$	Scanning group ( $\mathbf{c}, \mathbf{d}, \mathbf{z}$ )	Location $s\mathbf{d}$	Sectional rod group ( $\mathbf{d}, \mathbf{z}, \mathbf{c}$ )
$[100]$	$[010]$	$p2_122$ L20	$0, 1/2$ $[s, -s]$	$\rho 222_1$ R14 $\rho 211$ $[1/4]$ R3
$[010]$	$[\bar{1}00]$	$p22_12$ L20	$[0, 1/2]$ $[1/4, 3/4]$ $[\pm s, (\frac{1}{2} \pm s)]$	$\rho 121$ R3 $\rho 112$ R8 $\rho 1$ R1
Orientation $[uv0] = \mathbf{c}$	Scanning direction $\mathbf{d} = [pq0]$	Scanning group ( $\mathbf{c}, \mathbf{d}, \mathbf{z}$ )		
Any $u, v$	Any $p, q$	$p112$ L3		

**$p2_12_12_1$  No. 21**

Orientation $[uvw] = \mathbf{c}$	Scanning direction $\mathbf{d}$	Scanning group ( $\mathbf{c}, \mathbf{d}, \mathbf{z}$ )	Location $s\mathbf{d}$	Sectional rod group ( $\mathbf{d}, \mathbf{z}, \mathbf{c}$ )
$[100]$ $[010]$	$[010]$ $[\bar{1}00]$	$p2_12_12_1$ L21	$[0, 1/2]$ $[1/4, 3/4]$ $[\pm s, (\frac{1}{2} \pm s)]$	$\rho 121$ R3 $\rho 112_1$ R9 $\rho 1$ R1
Orientation $[uv0] = \mathbf{c}$	Scanning direction $\mathbf{d} = [pq0]$	Scanning group ( $\mathbf{c}, \mathbf{d}, \mathbf{z}$ )		
Any $u, v$	Any $p, q$	$p112$ L3		



### *c*222 No. 22

Orientation [uvw] = <b>c</b>	Scanning direction <b>d</b>	Scanning group ( <b>c, d, z</b> )	Location <b>sd</b>	Sectional rod group ( <b>d, z, c</b> )
[100] [010]	[010] [100]	<i>c</i> 222 L22	[0, 1/2] [1/4, 3/4] [±s, (1/2 ± s)]	<i>ρ</i> 222 R13 <i>ρ</i> 222 <sub>1</sub> R14 <i>ρ</i> 211 R3
Orientation [uv0]	<b>c</b>	Scanning direction <b>d</b> = [(p + q)/2, (p − q)/2, 0]		Scanning group ( <b>c, d, z</b> )
Odd <i>u</i> , odd <i>v</i> Even <i>u</i> OR even <i>v</i>	[ <i>u</i> , <i>v</i> , 0]/2 [ <i>u</i> , <i>v</i> , 0]	Any <i>p, q</i>		<i>p</i> 112 L3

### *pmm*2 No. 23

Orientation [uvw] = <b>c</b>	Scanning direction <b>d</b>	Scanning group ( <b>c, d, z</b> )	Location <b>sd</b>	Sectional rod group ( <b>d, z, c</b> )
[100] [010]	[010] [100]	<i>pmm</i> 2 L23	0, 1/2 [s, −s]	<i>ρm</i> 2 <i>m</i> R18 <i>ρ</i> 11 <i>m</i> R10
Orientation [uv0] = <b>c</b>	Scanning direction <b>d</b> = [ <i>pq</i> 0]	Scanning group ( <b>c, d, z</b> )		
Any <i>u, v</i>	Any <i>p, q</i>	<i>p</i> 112 L3		

### *pma*2 No. 24

Orientation [uvw] = <b>c</b>	Scanning direction <b>d</b>	Scanning group ( <b>c, d, z</b> )	Location <b>sd</b>	Sectional rod group ( <b>d, z, c</b> )
[100]	[010]	<i>pma</i> 2 L24	0, 1/2 [s, −s]	<i>ρc</i> 2 <i>m</i> R19 <i>ρ</i> 11 <i>m</i> [1/4] R10
[010]	[100]	<i>pbm</i> 2 L24	[0, 1/2] [1/4, 3/4] [±s, (1/2 ± s)]	<i>ρ</i> 121 R3 <i>ρm</i> 11 R4 <i>ρ</i> 1 R1
Orientation [uv0] = <b>c</b>	Scanning direction <b>d</b> = [ <i>pq</i> 0]	Scanning group ( <b>c, d, z</b> )		
Any <i>u, v</i>	Any <i>p, q</i>	<i>p</i> 112 L3		

***pba2* No. 25**

Orientation [uvw] = <b>c</b>	Scanning direction <b>d</b>	Scanning group ( <b>c, d, z</b> )	Location <b>sd</b>	Sectional rod group ( <b>d, z, c</b> )
[100] [010]	[010] [100]	<i>pba2</i> L25	[0, 1/2] [1/4, 3/4] [±s, (1/2 ± s)]	$\rho$ 121 R3 $\rho$ c11 R5 $\rho$ 1 R1
Orientation [uv0] = <b>c</b>	Scanning direction <b>d</b> = [pq0]	Scanning group ( <b>c, d, z</b> )		
Any <i>u, v</i>	Any <i>p, q</i>	<i>p</i> 112 L3		

***cmm2* No. 26**

Orientation [uvw] = <b>c</b>	Scanning direction <b>d</b>	Scanning group ( <b>c, d, z</b> )	Location <b>sd</b>	Sectional rod group ( <b>d, z, c</b> )
[100] [010]	[010] [100]	<i>cmm2</i> L26	[0, 1/2] [1/4, 3/4] [±s, (1/2 ± s)]	$\rho$ m2m R18 $\rho$ c2m R19 $\rho$ 11m R10
Orientation [uv0]	<b>c</b>	Scanning direction <b>d</b> = [( <i>p</i> + <i>q</i> )/2, ( <i>p</i> − <i>q</i> )/2, 0]	Scanning group ( <b>c, d, z</b> )	
Odd <i>u</i> , odd <i>v</i> Even <i>u</i> OR even <i>v</i>	[ <i>u, v</i> , 0]/2 [ <i>u, v</i> , 0]	Any <i>p, q</i>	<i>p</i> 112 L3	

***pm2m* No. 27**

Orientation [uvw] = <b>c</b>	Scanning direction <b>d</b>	Scanning group ( <b>c, d, z</b> )	Location <b>sd</b>	Sectional rod group ( <b>d, z, c</b> )
[100]	[010]	<i>pm2m</i> L27	<i>s</i>	$\rho$ 2mm R18
[010]	[100]	<i>p2mm</i> L27	0, 1/2 [ <i>s</i> , − <i>s</i> ]	$\rho$ mm2 R15 $\rho$ 1m1 R4
Orientation [uv0] = <b>c</b>	Scanning direction <b>d</b> = [pq0]	Scanning group ( <b>c, d, z</b> )		
Any <i>u, v</i>	Any <i>p, q</i>	<i>p</i> 11m L4		

**$pm2_1b$  No. 28**

Orientation [uvw] = <b>c</b>	Scanning direction <b>d</b>	Scanning group ( <b>c, d, z</b> )	Location <b>sd</b>	Sectional rod group ( <b>d, z, c</b> )
[100]	[010]	$pm2_1b$ L28	$[s, (s + \frac{1}{2})]$	$\rho 11m$ R10
[010]	$[\bar{1}00]$	$p2_1ma$ L28	0, 1/2 $[s, -s]$	$\rho mc2_1$ R17 $\rho 1c1$ R5
Orientation [uv0] = <b>c</b>	Scanning direction <b>d</b> = [pq0]	Scanning group ( <b>c, d, z</b> )		
Even $u$ , odd $v$	Odd $p$	$p11a$ L5		
Odd $u$ , any $v$	Even $p$	$p11b$ L5		
Odd $u$ , any $v$	Odd $p$	$p11n$ L5		

**$pb2_1m$  No. 29**

Orientation [uvw] = <b>c</b>	Scanning direction <b>d</b>	Scanning group ( <b>c, d, z</b> )	Location <b>sd</b>	Sectional rod group ( <b>d, z, c</b> )
[100]	[010]	$pb2_1m$ L29	$[s, (s + \frac{1}{2})]$	$\rho 1m1$ R4
[010]	$[\bar{1}00]$	$p2_1am$ L29	0, 1/2 $[s, -s]$	$\rho cm2_1$ R17 $\rho 1m1$ R4
Orientation [uv0] = <b>c</b>	Scanning direction <b>d</b> = [pq0]	Scanning group ( <b>c, d, z</b> )		
Any $u, v$	Any $p, q$	$p11m$ L4		

***pb2b* No. 30**

Orientation $[uvw] = \mathbf{c}$	Scanning direction $\mathbf{d}$	Scanning group ( $\mathbf{c}, \mathbf{d}, \mathbf{z}$ )	Location $s\mathbf{d}$	Sectional rod group ( $\mathbf{d}, \mathbf{z}, \mathbf{c}$ )
[100]	[010]	<i>pb2b</i> L30	$[s, (s + \frac{1}{2})]$	$\rho 211$ R3
[010]	$[\bar{1}00]$	<i>p2aa</i> L30	0, 1/2 $[s, -s]$	$\rho cc2$ R16 $\rho 1c1$ R5
Orientation $[uv0] = \mathbf{c}$	Scanning direction $\mathbf{d} = [pq0]$	Scanning group ( $\mathbf{c}, \mathbf{d}, \mathbf{z}$ )		
Even $u$ , odd $v$	Odd $p$	<i>p11a</i> L5		
Odd $u$ , any $v$	Even $p$	<i>p11b</i> L5		
Odd $u$ , any $v$	Odd $p$	<i>p11n</i> L5		

***pm2a* No. 31**

Orientation $[uvw] = \mathbf{c}$	Scanning direction $\mathbf{d}$	Scanning group ( $\mathbf{c}, \mathbf{d}, \mathbf{z}$ )	Location $s\mathbf{d}$	Sectional rod group ( $\mathbf{d}, \mathbf{z}, \mathbf{c}$ )
[100]	[010]	<i>pm2a</i> L31	$s$	$\rho 2cm$ R19
[010]	$[\bar{1}00]$	<i>p2mb</i> L31	$[0, 1/2]$ $[1/4, 3/4]$ $[\pm s, (\frac{1}{2} \pm s)]$	$\rho 112$ R8 $\rho m11$ R4 $\rho 1$ R1
Orientation $[uv0] = \mathbf{c}$	Scanning direction $\mathbf{d} = [pq0]$	Scanning group ( $\mathbf{c}, \mathbf{d}, \mathbf{z}$ )		
Odd $u$ , even $v$	Odd $q$	<i>p11a</i> L5		
Any $u$ , odd $v$	Even $q$	<i>p11b</i> L5		
Any $u$ , odd $v$	Odd $q$	<i>p11n</i> L5		

**$pm2_1n$  No. 32**

Orientation $[uvw] = \mathbf{c}$	Scanning direction $\mathbf{d}$	Scanning group ( $\mathbf{c}, \mathbf{d}, \mathbf{z}$ )	Location $\mathbf{sd}$	Sectional rod group ( $\mathbf{d}, \mathbf{z}, \mathbf{c}$ )
[100]	[010]	$pm2_1n$ L32	$[s, (s + \frac{1}{2})]$	$\rho 11m$ R10
[010]	$[\bar{1}00]$	$p2_1mn$ L32	$[0, 1/2]$ $[1/4, 3/4]$ $[\pm s, (\frac{1}{2} \pm s)]$	$\rho m11$ R4 $\rho 112_1$ R9 $\rho 1$ R1
Orientation $[uv0] = \mathbf{c}$	Scanning direction $\mathbf{d} = [pq0]$	Scanning group ( $\mathbf{c}, \mathbf{d}, \mathbf{z}$ )		
Odd $u$ , odd $v$	Any $p, q$	$p11a$ L5		
Even $u$ OR even $v$	Odd $p, q$	$p11b$ L5		
Even $u$ , odd $v$ Odd $u$ , even $v$	Even $q$ Even $p$	$p11n$ L5		

**$pb2_1a$  No. 33**

Orientation $[uvw] = \mathbf{c}$	Scanning direction $\mathbf{d}$	Scanning group ( $\mathbf{c}, \mathbf{d}, \mathbf{z}$ )	Location $\mathbf{sd}$	Sectional rod group ( $\mathbf{d}, \mathbf{z}, \mathbf{c}$ )
[100]	[010]	$pb2_1a$ L33	$[s, (s + \frac{1}{2})]$	$\rho 1c1$ R5
[010]	$[\bar{1}00]$	$p2_1ab$ L33	$[0, 1/2]$ $[1/4, 3/4]$ $[\pm s, (\frac{1}{2} \pm s)]$	$\rho 112_1$ R9 $\rho c11$ R5 $\rho 1$ R1
Orientation $[uv0] = \mathbf{c}$	Scanning direction $\mathbf{d} = [pq0]$	Scanning group ( $\mathbf{c}, \mathbf{d}, \mathbf{z}$ )		
Odd $u$ , even $v$	Odd $q$	$p11a$ L5		
Any $u$ , odd $v$	Even $q$	$p11b$ L5		
Any $u$ , odd $v$	Odd $q$	$p11n$ L5		

***pb2n* No. 34**

Orientation [uvw] = <b>c</b>	Scanning direction <b>d</b>	Scanning group ( <b>c, d, z</b> )	Location <b>sd</b>	Sectional rod group ( <b>d, z, c</b> )
[100]	[010]	<i>pb2n</i> L34	$[s, (s + \frac{1}{2})]$	$\rho 211$ R3
[010]	$[\bar{1}00]$	<i>p2an</i> L34	$[0, 1/2]$ $[1/4, 3/4]$ $[\pm s, (\frac{1}{2} \pm s)]$	$\rho 112$ R8 $\rho c11$ R5 $\rho 1$ R1

Orientation [uv0] = <b>c</b>	Scanning direction <b>d</b> = [pq0]	Scanning group ( <b>c, d, z</b> )
Odd <i>u</i> , odd <i>v</i>	Any <i>p, q</i>	<i>p11a</i> L5
Even <i>u</i> OR even <i>v</i>	Odd <i>p, q</i>	<i>p11b</i> L5
Even <i>u</i> , odd <i>v</i> Odd <i>u</i> , even <i>v</i>	Even <i>q</i> Even <i>p</i>	<i>p11n</i> L5

***cm2m* No. 35**

Orientation [uvw] = <b>c</b>	Scanning direction <b>d</b>	Scanning group ( <b>c, d, z</b> )	Location <b>sd</b>	Sectional rod group ( <b>d, z, c</b> )
[100]	[010]	<i>cm2m</i> L35	$[s, (s + \frac{1}{2})]$	$\rho 2mm$ R18
[010]	$[\bar{1}00]$	<i>c2mm</i> L35	$[0, 1/2]$ $[1/4, 3/4]$ $[\pm s, (\frac{1}{2} \pm s)]$	$\rho mm2$ R15 $\rho cm2_1$ R17 $\rho 1m1$ R4

Orientation [uv0]	<b>c</b>	Scanning direction <b>d</b> = [( <i>p</i> + <i>q</i> )/2, ( <i>p</i> − <i>q</i> )/2, 0]	Scanning group ( <b>c, d, z</b> )
Odd <i>u</i> , odd <i>v</i> Even <i>u</i> OR even <i>v</i>	$[u, v, 0]/2$ $[u, v, 0]$	Any <i>p, q</i>	<i>p11m</i> L4

***cm2e* No. 36**

Orientation [uvw] = <b>c</b>	Scanning direction <b>d</b>	Scanning group ( <b>c, d, z</b> )	Location <b>sd</b>	Sectional rod group ( <b>d, z, c</b> )
[100]	[010]	<i>cm2e</i> L36	$[s, (s + \frac{1}{2})]$	$\rho 2cm$ R19
[010]	$[\bar{1}00]$	<i>c2me</i> L36	$[0, 1/2]$ $[1/4, 3/4]$ $[\pm s, (\frac{1}{2} \pm s)]$	$\rho cc2$ R16 $\rho mc2_1$ R17 $\rho 1c1$ R5

Orientation [uv0]	<b>c</b>	Scanning direction <b>d</b> = $[(p + q)/2, (p - q)/2, 0]$	Scanning group ( <b>c, d, z</b> )
Odd <i>u</i> , even <i>v</i> OR even <i>u</i> , odd <i>v</i>	$[u, v, 0]$	Any <i>p, q</i>	<i>p11a</i> L5
Odd <i>u, v</i>	$[u, v, 0]/2$	Even $(p \pm q)$	<i>p11b</i> L5
Odd <i>u, v</i>	$[u, v, 0]/2$	Odd $(p \pm q)$	<i>p11n</i> L5

***pmmm* No. 37**

Orientation [uvw] = <b>c</b>	Scanning direction <b>d</b>	Scanning group ( <b>c, d, z</b> )	Location <b>sd</b>	Sectional rod group ( <b>d, z, c</b> )
[100] [010]	[010] $[\bar{1}00]$	<i>pmmm</i> L37	0, 1/2 $[s, -s]$	$\rho mmm$ R20 $\rho 2mm$ R18

Orientation [uv0] = <b>c</b>	Scanning direction <b>d</b> = $[pq0]$	Scanning group ( <b>c, d, z</b> )
Any <i>u, v</i>	Any <i>p, q</i>	<i>p112/m</i> L6

*pmaa* No. 38

Orientation [uvw] = <b>c</b>	Scanning direction <b>d</b>	Scanning group ( <b>c, d, z</b> )	Location <b>sd</b>	Sectional rod group ( <b>d, z, c</b> )
[100]	[010]	<i>pmaa</i> L38	0, 1/2 [s, -s]	$\rho ccm$ R21 $\rho 2cm$ R19
[010]	$[\bar{1}00]$	<i>pbmb</i> L38	[0, 1/2] [1/4, 3/4] [ $\pm s, (\frac{1}{2} \pm s)$ ]	$\rho 2/m11$ R6 $\rho 222$ R13 $\rho 211$ R3
Orientation [uv0] = <b>c</b>	Scanning direction <b>d</b> = [pq0]	Scanning group ( <b>c, d, z</b> )		
Odd <i>u</i> , even <i>v</i>	Odd <i>q</i>	<i>p112/a</i> L7		
Any <i>u</i> , odd <i>v</i>	Even <i>q</i>	<i>p112/b</i> L7		
Any <i>u</i> , odd <i>v</i>	Odd <i>q</i>	<i>p112/n</i> L7		

*pban* No. 39

Orientation [uvw] = <b>c</b>	Scanning direction <b>d</b>	Scanning group ( <b>c, d, z</b> )	Location <b>sd</b>	Sectional rod group ( <b>d, z, c</b> )
[100] [010]	[010] $[\bar{1}00]$	<i>pban</i> L39	[0, 1/2] [1/4, 3/4] [ $\pm s, (\frac{1}{2} \pm s)$ ]	$\rho 2/c11$ R7 $\rho 222$ [1/4] R13 $\rho 211$ [1/4] R3
Orientation [uv0] = <b>c</b>	Scanning direction <b>d</b> = [pq0]	Scanning group ( <b>c, d, z</b> )		
Odd <i>u</i> , odd <i>v</i>	Any <i>p, q</i>	<i>p112/a</i> L7		
Even <i>u</i> OR even <i>v</i>	Odd <i>p, q</i>	<i>p112/b</i> L7		
Even <i>u</i> , odd <i>v</i> Odd <i>u</i> , even <i>v</i>	Even <i>q</i> Even <i>p</i>	<i>p112/n</i> L7		



*pmam* No. 40

Orientation $[uvw] = \mathbf{c}$	Scanning direction $\mathbf{d}$	Scanning group ( $\mathbf{c}, \mathbf{d}, \mathbf{z}$ )	Location $s\mathbf{d}$	Sectional rod group ( $\mathbf{d}, \mathbf{z}, \mathbf{c}$ )
[100]	[010]	<i>pmam</i> L40	0, 1/2 [ $s, -s$ ]	$\rho cmm$ R22 $\rho 2mm$ [1/4] R18
[010]	$[\bar{1}00]$	<i>pbmm</i> L40	[0, 1/2] [1/4, 3/4] [ $\pm s, (\frac{1}{2} \pm s)$ ]	$\rho 12/m1$ R6 $\rho mm2$ R15 $\rho 1m1$ R4
Orientation $[uv0] = \mathbf{c}$	Scanning direction $\mathbf{d} = [pq0]$	Scanning group ( $\mathbf{c}, \mathbf{d}, \mathbf{z}$ )		
Any $u, v$	Any $p, q$	<i>p112/m</i> L6		

*pmma* No. 41

Orientation $[uvw] = \mathbf{c}$	Scanning direction $\mathbf{d}$	Scanning group ( $\mathbf{c}, \mathbf{d}, \mathbf{z}$ )	Location $s\mathbf{d}$	Sectional rod group ( $\mathbf{d}, \mathbf{z}, \mathbf{c}$ )
[100]	[010]	<i>pmma</i> L41	0, 1/2 [ $s, -s$ ]	$\rho mcm$ R22 $\rho 2cm$ R19
[010]	$[\bar{1}00]$	<i>pmmb</i> L41	[0, 1/2] [1/4, 3/4] [ $\pm s, (\frac{1}{2} \pm s)$ ]	$\rho 112/m$ R11 $\rho m2m$ R18 $\rho 11m$ R10
Orientation $[uv0] = \mathbf{c}$	Scanning direction $\mathbf{d} = [pq0]$	Scanning group ( $\mathbf{c}, \mathbf{d}, \mathbf{z}$ )		
Odd $u$ , even $v$	Odd $q$	<i>p112/a</i> L7		
Any $u$ , odd $v$	Even $q$	<i>p112/b</i> L7		
Any $u$ , odd $v$	Odd $q$	<i>p112/n</i> L7		

*pman* No. 42

Orientation [uvw] = <b>c</b>	Scanning direction <b>d</b>	Scanning group ( <b>c, d, z</b> )	Location <b>sd</b>	Sectional rod group ( <b>d, z, c</b> )
[100]	[010]	<i>pman</i> L42	[0, 1/2] [1/4, 3/4] [±s, (½ ± s)]	<i>ρ</i> 112/ <i>m</i> R11 <i>ρ</i> <i>c</i> 2 <i>m</i> R19 <i>ρ</i> 11 <i>m</i> R10
[010]	[1̄00]	<i>pbmn</i> L42	[0, 1/2] [1/4, 3/4] [±s, (½ ± s)]	<i>ρ</i> 2/ <i>m</i> 11 R6 <i>ρ</i> 222 <sub>1</sub> R14 <i>ρ</i> 211 R3
Orientation [uv0] = <b>c</b>	Scanning direction <b>d</b> = [pq0]	Scanning group ( <b>c, d, z</b> )		
Odd <i>u</i> , odd <i>v</i>	Any <i>p, q</i>	<i>p</i> 112/ <i>a</i> L7		
Even <i>u</i> OR even <i>v</i>	Odd <i>p, q</i>	<i>p</i> 112/ <i>b</i> L7		
Even <i>u</i> , odd <i>v</i> Odd <i>u</i> , even <i>v</i>	Even <i>q</i> Even <i>p</i>	<i>p</i> 112/ <i>n</i> L7		

*pbaa* No. 43

Orientation [uvw] = <b>c</b>	Scanning direction <b>d</b>	Scanning group ( <b>c, d, z</b> )	Location <b>sd</b>	Sectional rod group ( <b>d, z, c</b> )
[100]	[010]	<i>pbaa</i> L43	[0, 1/2] [1/4, 3/4] [±s, (½ ± s)]	<i>ρ</i> 12/ <i>c</i> 1 R7 <i>ρ</i> <i>cc</i> 2 R16 <i>ρ</i> 1 <i>c</i> 1 R5
[010]	[1̄00]	<i>pbab</i> L43	[0, 1/2] [1/4, 3/4] [±s, (½ ± s)]	<i>ρ</i> 2/ <i>c</i> 11 R7 <i>ρ</i> 222 <sub>1</sub> R14 <i>ρ</i> 211 [1/4] R3
Orientation [uv0] = <b>c</b>	Scanning direction <b>d</b> = [pq0]	Scanning group ( <b>c, d, z</b> )		
Odd <i>u</i> , even <i>v</i>	Odd <i>q</i>	<i>p</i> 112/ <i>a</i> L7		
Any <i>u</i> , odd <i>v</i>	Even <i>q</i>	<i>p</i> 112/ <i>b</i> L7		
Any <i>u</i> , odd <i>v</i>	Odd <i>q</i>	<i>p</i> 112/ <i>n</i> L7		

***pbam* No. 44**

Orientation $[uvw] = \mathbf{c}$	Scanning direction $\mathbf{d}$	Scanning group ( $\mathbf{c}, \mathbf{d}, \mathbf{z}$ )	Location $s\mathbf{d}$	Sectional rod group ( $\mathbf{d}, \mathbf{z}, \mathbf{c}$ )
$[100]$ $[010]$	$[010]$ $[\bar{1}00]$	<i>pbam</i> L44	$[0, 1/2]$ $[1/4, 3/4]$ $[\pm s, (\frac{1}{2} \pm s)]$	$\rho 12/m1$ R6 $\rho cm2_1$ R17 $\rho 1m1$ R4
Orientation $[uv0] = \mathbf{c}$	Scanning direction $\mathbf{d} = [pq0]$	Scanning group ( $\mathbf{c}, \mathbf{d}, \mathbf{z}$ )		
Any $u, v$	Any $p, q$	$p112/m$ L6		

***pbma* No. 45**

Orientation $[uvw] = \mathbf{c}$	Scanning direction $\mathbf{d}$	Scanning group ( $\mathbf{c}, \mathbf{d}, \mathbf{z}$ )	Location $s\mathbf{d}$	Sectional rod group ( $\mathbf{d}, \mathbf{z}, \mathbf{c}$ )
$[100]$	$[010]$	<i>pbma</i> L45	$[0, 1/2]$ $[1/4, 3/4]$ $[\pm s, (\frac{1}{2} \pm s)]$	$\rho 12/c1$ R7 $\rho mc2_1$ R17 $\rho 1c1$ R5
$[010]$	$[\bar{1}00]$	<i>pmab</i> L45	$[0, 1/2]$ $[1/4, 3/4]$ $[\pm s, (\frac{1}{2} \pm s)]$	$\rho 112_1/m$ R12 $\rho c2m$ R19 $\rho 11m$ $[1/4]$ R10
Orientation $[uv0] = \mathbf{c}$	Scanning direction $\mathbf{d} = [pq0]$	Scanning group ( $\mathbf{c}, \mathbf{d}, \mathbf{z}$ )		
Odd $u$ , even $v$	Odd $q$	$p112/a$ L7		
Any $u$ , odd $v$	Even $q$	$p112/b$ L7		
Any $u$ , odd $v$	Odd $q$	$p112/n$ L7		

***pmmn* No. 46**

Orientation $[uvw] = \mathbf{c}$	Scanning direction $\mathbf{d}$	Scanning group ( $\mathbf{c}, \mathbf{d}, \mathbf{z}$ )	Location $\mathbf{sd}$	Sectional rod group ( $\mathbf{d}, \mathbf{z}, \mathbf{c}$ )
$[100]$ $[010]$	$[010]$ $[\bar{1}00]$	<i>pmmn</i> L46	$[0, 1/2]$ $[1/4, 3/4]$ $[\pm s, (\frac{1}{2} \pm s)]$	$\rho 112_1/m$ R12 $\rho m2m$ $[1/4]$ R18 $\rho 11m$ $[1/4]$ R10
Orientation $[uv0] = \mathbf{c}$	Scanning direction $\mathbf{d} = [pq0]$	Scanning group ( $\mathbf{c}, \mathbf{d}, \mathbf{z}$ )		
Odd $u$ , odd $v$	Any $p, q$	<i>p112/a</i> L7		
Even $u$ OR even $v$	Odd $p, q$	<i>p112/b</i> L7		
Even $u$ , odd $v$ Odd $u$ , even $v$	Even $q$ Even $p$	<i>p112/n</i> L7		

***cmmm* No. 47**

Orientation $[uvw] = \mathbf{c}$	Scanning direction $\mathbf{d}$	Scanning group ( $\mathbf{c}, \mathbf{d}, \mathbf{z}$ )	Location $\mathbf{sd}$	Sectional rod group ( $\mathbf{d}, \mathbf{z}, \mathbf{c}$ )
$[100]$ $[010]$	$[010]$ $[\bar{1}00]$	<i>cmmm</i> L47	$[0, 1/2]$ $[1/4, 3/4]$ $[\pm s, (\frac{1}{2} \pm s)]$	$\rho cmmm$ R20 $\rho cmm$ $[1/4]$ R22 $\rho 2mm$ R18
Orientation $[uv0]$	$\mathbf{c}$	Scanning direction $\mathbf{d} = [(p+q)/2, (p-q)/2, 0]$	Scanning group ( $\mathbf{c}, \mathbf{d}, \mathbf{z}$ )	
Odd $u$ , odd $v$ Even $u$ OR even $v$	$[u, v, 0]/2$ $[u, v, 0]$	Any $p, q$		<i>p112/m</i> L6

***cmme* No. 48**

Orientation [uvw] = <b>c</b>	Scanning direction <b>d</b>	Scanning group ( <b>c, d, z</b> )	Location <b>sd</b>	Sectional rod group ( <b>d, z, c</b> )
[100]	[010]	<i>cmme</i> L48	$[0, 1/2]$ $[1/4, 3/4]$ $[\pm s, (\frac{1}{2} \pm s)]$	$\rho ccm$ R21 $\rho mcm$ [1/4] R22 $\rho 2cm$ R19
[010]	$[\bar{1}00]$	<i>cmme</i> L48 [1/4, 1/4, 0]	$[0, 1/2]$ $[1/4, 3/4]$ $[\pm s, (\frac{1}{2} \pm s)]$	$\rho mcm$ R22 $\rho ccm$ [1/4] R21 $\rho 2cm$ R19
Orientation [uv0]		<b>c</b>	Scanning direction <b>d</b> = $[(p+q)/2, (p-q)/2, 0]$	Scanning group ( <b>c, d, z</b> )
Odd <i>u</i> , even <i>v</i> OR even <i>u</i> , odd <i>v</i>		[ <i>u, v, 0</i> ]	Any <i>p, q</i>	<i>p112/a</i> L7
Odd <i>u, v</i>		[ <i>u, v, 0</i> ]/2	Even ( <i>p</i> ± <i>q</i> )	<i>p112/b</i> L7
Odd <i>u, v</i>		[ <i>u, v, 0</i> ]/2	Odd ( <i>p</i> ± <i>q</i> )	<i>p112/n</i> L7

***p4* No. 49**

Orientation [uvw] = <b>c</b>	Scanning direction <b>d</b>	Scanning group ( <b>c, d, z</b> )	Location <b>sd</b>	Sectional rod group ( <b>d, z, c</b> )
[100] [010] [110] [1 $\bar{1}$ 0]	[010] $[\bar{1}00]$ $[\bar{1}00]$ [100]	<i>p112</i> L3	0, 1/2 [ <i>s, -s</i> ]	$\rho 121$ R3 $\rho 1$ R1
Orientation [uv0] = <b>c</b>	Scanning direction <b>d</b> = [ <i>pq</i> 0]	Scanning group ( <b>c, d, z</b> )		
Any <i>u, v</i>	Any <i>p, q</i>	<i>p112</i> L3		

**$p\bar{4}$  No. 50**

Orientation [uvw] = <b>c</b>	Scanning direction <b>d</b>	Scanning group ( <b>c, d, z</b> )	Location <b>sd</b>	Sectional rod group ( <b>d, z, c</b> )
[100] [010] [110] [1 $\bar{1}$ 0]	[010] [ $\bar{1}$ 00] [ $\bar{1}$ 00] [100]	$p112$ L3	0, 1/2 [s, -s]	$\rho 121$ R3 $\rho 1$ R1
Orientation [uv0] = <b>c</b>	Scanning direction <b>d</b> = [pq0]	Scanning group ( <b>c, d, z</b> )		
Any $u, v$	Any $p, q$	$p112$ L3		

**$p4/m$  No. 51**

Orientation [uvw] = <b>c</b>	Scanning direction <b>d</b>	Scanning group ( <b>c, d, z</b> )	Location <b>sd</b>	Sectional rod group ( <b>d, z, c</b> )
[100] [010] [110] [1 $\bar{1}$ 0]	[010] [ $\bar{1}$ 00] [ $\bar{1}$ 00] [100]	$p112/m$ L6	0, 1/2 [s, -s]	$\rho 12/m1$ R6 $\rho 1m1$ R4
Orientation [uv0] = <b>c</b>	Scanning direction <b>d</b> = [pq0]	Scanning group ( <b>c, d, z</b> )		
Any $u, v$	Any $p, q$	$p112/m$ L6		

**$p4/n$  No. 52**

Orientation $[uvw] = \mathbf{c}$	Scanning direction $\mathbf{d}$	Scanning group ( $\mathbf{c}, \mathbf{d}, \mathbf{z}$ )	Location $s\mathbf{d}$	Sectional rod group ( $\mathbf{d}, \mathbf{z}, \mathbf{c}$ )
$[100]$ $[010]$	$[010]$ $[\bar{1}00]$	$p112/n$ L7	$[0, 1/2]$ $[1/4, 3/4]$ $[\pm s, (\frac{1}{2} \pm s)]$	$\rho \bar{1}$ R2 $\rho 121$ $[1/4]$ R3 $\rho 1$ R1
$[110]$ $[1\bar{1}0]$	$[\bar{1}00]$ $[100]$	$p112/a$ L7	$0, 1/2$ $[s, -s]$	$\rho 12/c1$ R7 $\rho 1c1$ R5
Orientation $[uv0] = \mathbf{c}$	Scanning direction $\mathbf{d} = [pq0]$	Scanning group ( $\mathbf{c}, \mathbf{d}, \mathbf{z}$ )		
Odd $u$ , odd $v$	Any $p, q$	$p112/a$ L7		
Even $u$ OR even $v$	Odd $p, q$	$p112/b$ L7		
Even $u$ , odd $v$ Odd $u$ , even $v$	Even $q$ Even $p$	$p112/n$ L7		

**$p422$  No. 53**

Orientation $[uvw] = \mathbf{c}$	Scanning direction $\mathbf{d}$	Scanning group ( $\mathbf{c}, \mathbf{d}, \mathbf{z}$ )	Location $s\mathbf{d}$	Sectional rod group ( $\mathbf{d}, \mathbf{z}, \mathbf{c}$ )
$[100]$ $[010]$	$[010]$ $[\bar{1}00]$	$p222$ L19	$0, 1/2$ $[s, -s]$	$\rho 222$ R13 $\rho 211$ R3
$[110]$ $[1\bar{1}0]$	$[\bar{1}10]$ $[110]$	$c222$ L22	$[0, 1/2]$ $[1/4, 3/4]$ $[\pm s, (\frac{1}{2} \pm s)]$	$\rho 222$ R13 $\rho 222_1$ R14 $\rho 211$ R3
Orientation $[uv0] = \mathbf{c}$	Scanning direction $\mathbf{d} = [pq0]$	Scanning group ( $\mathbf{c}, \mathbf{d}, \mathbf{z}$ )		
Any $u, v$	Any $p, q$	$p112$ L3		

**$p4_2$  No. 54**

Orientation $[uvw] = \mathbf{c}$	Scanning direction $\mathbf{d}$	Scanning group ( $\mathbf{c}, \mathbf{d}, \mathbf{z}$ )	Location $s\mathbf{d}$	Sectional rod group ( $\mathbf{d}, \mathbf{z}, \mathbf{c}$ )
$[100]$ $[010]$	$[010]$ $[\bar{1}00]$	$p2_12_12_1$ L21	$[0, 1/2]$ $[1/4, 3/4]$ $[\pm s, (\frac{1}{2} \pm s)]$	$\rho 121$ R3 $\rho 112_1$ R9 $\rho 1$ R1
$[110]$ $[1\bar{1}0]$	$[\bar{1}10]$ $[110]$	$c222$ L22 $[1/4, 1/4, 0]$	$[0, 1/2]$ $[1/4, 3/4]$ $[\pm s, (\frac{1}{2} \pm s)]$	$\rho 222_1$ R14 $\rho 222 [1/4]$ R13 $\rho 211 [1/4]$ R3
Orientation $[uv0] = \mathbf{c}$	Scanning direction $\mathbf{d} = [pq0]$	Scanning group ( $\mathbf{c}, \mathbf{d}, \mathbf{z}$ )		
Any $u, v$	Any $p, q$	$p112$ L3		

**$p4mm$  No. 55**

Orientation $[uvw] = \mathbf{c}$	Scanning direction $\mathbf{d}$	Scanning group ( $\mathbf{c}, \mathbf{d}, \mathbf{z}$ )	Location $s\mathbf{d}$	Sectional rod group ( $\mathbf{d}, \mathbf{z}, \mathbf{c}$ )
$[100]$ $[010]$	$[010]$ $[\bar{1}00]$	$pmm2$ L23	$0, 1/2$ $[s, -s]$	$\rho m2m$ R18 $\rho 11m$ R10
$[110]$ $[1\bar{1}0]$	$[\bar{1}10]$ $[110]$	$cmm2$ L26	$[0, 1/2]$ $[1/4, 3/4]$ $[\pm s, (\frac{1}{2} \pm s)]$	$\rho m2m$ R18 $\rho c2m$ R19 $\rho 11m$ R10
Orientation $[uv0] = \mathbf{c}$	Scanning direction $\mathbf{d} = [pq0]$	Scanning group ( $\mathbf{c}, \mathbf{d}, \mathbf{z}$ )		
Any $u, v$	Any $p, q$	$p112$ L3		



***p4bm* No. 56**

Orientation [ <i>uvw</i> ] = <b>c</b>	Scanning direction <b>d</b>	Scanning group ( <b>c, d, z</b> )	Location <b>sd</b>	Sectional rod group ( <b>d, z, c</b> )
[100] [010]	[010] [ $\bar{1}$ 00]	<i>pba2</i> L25	[0, 1/2] [1/4, 3/4] [ $\pm s, (\frac{1}{2} \pm s)$ ]	$\rho$ 121 R3 $\rho$ c11 R5 $\rho$ 1 R1
[110] [1 $\bar{1}$ 0]	[ $\bar{1}$ 10] [110]	<i>cm2</i> L26 [1/4, 1/4, 0]	[0, 1/2] [1/4, 3/4] [ $\pm s, (\frac{1}{2} \pm s)$ ]	$\rho$ c2 <i>m</i> R19 $\rho$ m2 <i>m</i> [1/4] R18 $\rho$ 11 <i>m</i> [1/4] R10
Orientation [ <i>uv</i> 0] = <b>c</b>	Scanning direction <b>d</b> = [ <i>pq</i> 0]	Scanning group ( <b>c, d, z</b> )		
Any <i>u, v</i>	Any <i>p, q</i>	<i>p</i> 112 L3		

***p4 $\bar{2}$ m* No. 57**

Orientation [ <i>uvw</i> ] = <b>c</b>	Scanning direction <b>d</b>	Scanning group ( <b>c, d, z</b> )	Location <b>sd</b>	Sectional rod group ( <b>d, z, c</b> )
[100] [010]	[010] [ $\bar{1}$ 00]	<i>p222</i> L19	0, 1/2 [ <i>s</i> , − <i>s</i> ]	$\rho$ 222 R13 $\rho$ 211 R3
[110] [1 $\bar{1}$ 0]	[ $\bar{1}$ 10] [110]	<i>cm2</i> L26	[0, 1/2] [1/4, 3/4] [ $\pm s, (\frac{1}{2} \pm s)$ ]	$\rho$ m2 <i>m</i> R18 $\rho$ c2 <i>m</i> R19 $\rho$ 11 <i>m</i> R10
Orientation [ <i>uv</i> 0] = <b>c</b>	Scanning direction <b>d</b> = [ <i>pq</i> 0]	Scanning group ( <b>c, d, z</b> )		
Any <i>u, v</i>	Any <i>p, q</i>	<i>p</i> 112 L3		

$p\bar{4}2_1m$  No. 58

Orientation [uvw] = <b>c</b>	Scanning direction <b>d</b>	Scanning group ( <b>c, d, z</b> )	Location <b>sd</b>	Sectional rod group ( <b>d, z, c</b> )
[100] [010]	[010] [ $\bar{1}00$ ]	$p2_12_12_1$ L21	[0, 1/2] [1/4, 3/4] [ $\pm s, (\frac{1}{2} \pm s)$ ]	$\rho^{121}$ R3 $\rho^{112_1}$ R9 $\rho^1$ R1
[110] [1 $\bar{1}0$ ]	[ $\bar{1}10$ ] [110]	$cmm2$ L26 [1/4, 1/4, 0]	[0, 1/2] [1/4, 3/4] [ $\pm s, (\frac{1}{2} \pm s)$ ]	$\rho^{c2m}$ R19 $\rho^{m2m}$ [1/4] R18 $\rho^{11m}$ [1/4] R10
Orientation [uv0] = <b>c</b>	Scanning direction <b>d</b> = [pq0]	Scanning group ( <b>c, d, z</b> )		
Any $u, v$	Any $p, q$	$p112$ L3		

$p\bar{4}m2$  No. 59

Orientation [uvw] = <b>c</b>	Scanning direction <b>d</b>	Scanning group ( <b>c, d, z</b> )	Location <b>sd</b>	Sectional rod group ( <b>d, z, c</b> )
[100] [010]	[010] [ $\bar{1}00$ ]	$pmm2$ L23	0, 1/2 [s, -s]	$\rho^{m2m}$ R18 $\rho^{11m}$ R10
[110] [1 $\bar{1}0$ ]	[ $\bar{1}10$ ] [110]	$c222$ L22	[0, 1/2] [1/4, 3/4] [ $\pm s, (\frac{1}{2} \pm s)$ ]	$\rho^{222}$ R13 $\rho^{222_1}$ R14 $\rho^{211}$ R3
Orientation [uv0] = <b>c</b>	Scanning direction <b>d</b> = [pq0]	Scanning group ( <b>c, d, z</b> )		
Any $u, v$	Any $p, q$	$p112$ L3		

$p\bar{4}b2$  No. 60

Orientation [uvw] = <b>c</b>	Scanning direction <b>d</b>	Scanning group ( <b>c, d, z</b> )	Location <b>sd</b>	Sectional rod group ( <b>d, z, c</b> )
[100] [010]	[010] [ $\bar{1}00$ ]	$pba2$ L25	[0, 1/2] [1/4, 3/4] [ $\pm s, (\frac{1}{2} \pm s)$ ]	$\rho 121$ R3 $\rho c11$ R5 $\rho 1$ R1
[110] [1 $\bar{1}0$ ]	[ $\bar{1}10$ ] [110]	$c222$ L22 [1/4, 1/4, 0]	[0, 1/2] [1/4, 3/4] [ $\pm s, (\frac{1}{2} \pm s)$ ]	$\rho 222_1$ R14 $\rho 222$ [1/4] R13 $\rho 211$ [1/4] R3
Orientation [uv0] = <b>c</b>	Scanning direction <b>d</b> = [pq0]	Scanning group ( <b>c, d, z</b> )		
Any $u, v$	Any $p, q$	$p112$ L3		

$p4/mmm$  No. 61

Orientation [uvw] = <b>c</b>	Scanning direction <b>d</b>	Scanning group ( <b>c, d, z</b> )	Location <b>sd</b>	Sectional rod group ( <b>d, z, c</b> )
[100] [010]	[010] [ $\bar{1}00$ ]	$pmmm$ L37	0, 1/2 [ $s, -s$ ]	$\rho mmm$ R20 $\rho 2mm$ R18
[110] [1 $\bar{1}0$ ]	[ $\bar{1}10$ ] [110]	$cmmm$ L47	[0, 1/2] [1/4, 3/4] [ $\pm s, (\frac{1}{2} \pm s)$ ]	$\rho mmm$ R20 $\rho cmm$ [1/4] R22 $\rho 2mm$ R18
Orientation [uv0] = <b>c</b>	Scanning direction <b>d</b> = [pq0]	Scanning group ( <b>c, d, z</b> )		
Any $u, v$	Any $p, q$	$p112/m$ L6		

***p4/nbm* No. 62**

Orientation [uvw] = <b>c</b>	Scanning direction <b>d</b>	Scanning group ( <b>c, d, z</b> )	Location <b>sd</b>	Sectional rod group ( <b>d, z, c</b> )
[100] [010]	[010] [100]	<i>pban</i> L39	[0, 1/2] [1/4, 3/4] [±s, (½ ± s)]	<i>ρ</i> 2/ <i>c</i> 11 R7 <i>ρ</i> 222 [1/4] R13 <i>ρ</i> 211 [1/4] R3
[110]	[110]	<i>cmme</i> L48	[0, 1/2] [1/4, 3/4] [±s, (½ ± s)]	<i>ρ</i> <i>ccm</i> R21 <i>ρ</i> <i>mcm</i> [1/4] R22 <i>ρ</i> 2 <i>cm</i> R19
[110]	[110]	<i>cmme</i> L48	[0, 1/2] [1/4, 3/4] [±s, (½ ± s)]	<i>ρ</i> <i>mcm</i> R22 <i>ρ</i> <i>ccm</i> [1/4] R21 <i>ρ</i> 2 <i>cm</i> R19
Orientation [uv0] = <b>c</b>	Scanning direction <b>d</b> = [pq0]	Scanning group ( <b>c, d, z</b> )		
Odd <i>u</i> , odd <i>v</i>	Any <i>p, q</i>	<i>p</i> 112/ <i>a</i> L7		
Even <i>u</i> OR even <i>v</i>	Odd <i>p, q</i>	<i>p</i> 112/ <i>b</i> L7		
Even <i>u</i> , odd <i>v</i> Odd <i>u</i> , even <i>v</i>	Even <i>q</i> Even <i>p</i>	<i>p</i> 112/ <i>n</i> L7		

***p4/mbm* No. 63**

Orientation [uvw] = <b>c</b>	Scanning direction <b>d</b>	Scanning group ( <b>c, d, z</b> )	Location <b>sd</b>	Sectional rod group ( <b>d, z, c</b> )
[100] [010]	[010] [100]	<i>pbam</i> L44	[0, 1/2] [1/4, 3/4] [±s, (½ ± s)]	<i>ρ</i> 12/ <i>m</i> 1 R6 <i>ρ</i> <i>cm</i> 2 <sub>1</sub> R17 <i>ρ</i> 1 <i>m</i> 1 R4
[110] [110]	[110] [110]	<i>cmmm</i> L47 [1/4, 1/4, 0]	[0, 1/2] [1/4, 3/4] [±s, (½ ± s)]	<i>ρ</i> <i>cm</i> <i>m</i> R22 <i>ρ</i> <i>m</i> <i>m</i> <i>m</i> [1/4] R20 <i>ρ</i> 2 <i>m</i> <i>m</i> [1/4] R18
Orientation [uv0] = <b>c</b>	Scanning direction <b>d</b> = [pq0]	Scanning group ( <b>c, d, z</b> )		
Any <i>u, v</i>	Any <i>p, q</i>	<i>p</i> 112/ <i>m</i> L6		

**$p4/nmm$  No. 64**

Orientation $[uvw] = \mathbf{c}$	Scanning direction $\mathbf{d}$	Scanning group ( $\mathbf{c}, \mathbf{d}, \mathbf{z}$ )	Location $s\mathbf{d}$	Sectional rod group ( $\mathbf{d}, \mathbf{z}, \mathbf{c}$ )
$[100]$ $[010]$	$[010]$ $[\bar{1}00]$	$pmmn$ L46	$[0, 1/2]$ $[1/4, 3/4]$ $[\pm s, (\frac{1}{2} \pm s)]$	$\rho 112_1/m$ R12 $\rho m2m$ $[1/4]$ R18 $\rho 11m$ $[1/4]$ R10
$[110]$	$[\bar{1}10]$	$cmme$ L48 $[1/4, 1/4, 0]$	$[0, 1/2]$ $[1/4, 3/4]$ $[\pm s, (\frac{1}{2} \pm s)]$	$\rho mcm$ R22 $\rho ccm$ $[1/4]$ R21 $\rho 2cm$ R19
$[1\bar{1}0]$	$[110]$	$cmme$ L48	$[0, 1/2]$ $[1/4, 3/4]$ $[\pm s, (\frac{1}{2} \pm s)]$	$\rho ccm$ R21 $\rho mcm$ $[1/4]$ R22 $\rho 2cm$ R19
Orientation $[uv0] = \mathbf{c}$	Scanning direction $\mathbf{d} = [pq0]$	Scanning group ( $\mathbf{c}, \mathbf{d}, \mathbf{z}$ )		
Odd $u$ , odd $v$	Any $p, q$	$p112/a$ L7		
Even $u$ OR even $v$	Odd $p, q$	$p112/b$ L7		
Even $u$ , odd $v$ Odd $u$ , even $v$	Even $q$ Even $p$	$p112/n$ L7		

**$p3$  No. 65**

Orientation $[uvw] = \mathbf{c}$	Scanning direction $\mathbf{d}$	Scanning group ( $\mathbf{c}, \mathbf{d}, \mathbf{z}$ )	Location $s\mathbf{d}$	Sectional rod group ( $\mathbf{d}, \mathbf{z}, \mathbf{c}$ )
$[100]$ $[010]$ $[110]$ $[1\bar{1}0]$ $[120]$ $[210]$	$[010]$ $[\bar{1}00]$ $[\bar{1}00]$ $[100]$ $[010]$ $[\bar{1}00]$	$p1$ L1	$s$	$\rho 1$ R1
Orientation $[uv0] = \mathbf{c}$	Scanning direction $\mathbf{d} = [pq0]$	Scanning group ( $\mathbf{c}, \mathbf{d}, \mathbf{z}$ )		
Any $u, v$	Any $p, q$	$p1$ L1		

**$p\bar{3}$  No. 66**

Orientation [uvw] = <b>c</b>	Scanning direction <b>d</b>	Scanning group ( <b>c, d, z</b> )	Location <b>sd</b>	Sectional rod group ( <b>d, z, c</b> )
[100] [010] [110] [1 $\bar{1}$ 0] [120] [210]	[010] [ $\bar{1}$ 00] [ $\bar{1}$ 00] [100] [010] [ $\bar{1}$ 00]	$p\bar{1}$ L2	0, 1/2 [s, -s]	$\rho\bar{1}$ R2 $\rho 1$ R1
Orientation [uv0] = <b>c</b>	Scanning direction <b>d</b> = [pq0]	Scanning group ( <b>c, d, z</b> )		
Any $u, v$	Any $p, q$	$p\bar{1}$ L2		

**$p312$  No. 67**

Orientation [uvw] = <b>c</b>	Scanning direction <b>d</b>	Scanning group ( <b>c, d, z</b> )	Location <b>sd</b>	Sectional rod group ( <b>d, z, c</b> )
[100] [010] [110]	[120] [ $\bar{2}$ $\bar{1}$ 0] [ $\bar{1}$ 10]	$c121$ L10	[s, (s + $\frac{1}{2}$ )]	$\rho 211$ R3
[1 $\bar{1}$ 0] [120] [210]	[110] [ $\bar{1}$ 00] [010]	$c211$ L10	[0, 1/2] [1/4, 3/4] [ $\pm s$ , ( $\frac{1}{2} \pm s$ )]	$\rho 112$ R8 $\rho 112_1$ R9 $\rho 1$ R1
Orientation [uv0] = <b>c</b>	Scanning direction <b>d</b> = [pq0]	Scanning group ( <b>c, d, z</b> )		
Any $u, v$	Any $p, q$	$p1$ L1		

***p*321 No. 68**

Orientation $[uvw] = \mathbf{c}$	Scanning direction $\mathbf{d}$	Scanning group ( $\mathbf{c}, \mathbf{d}, \mathbf{z}$ )	Location $s\mathbf{d}$	Sectional rod group ( $\mathbf{d}, \mathbf{z}, \mathbf{c}$ )
[100] [010] [110]	[120] [ $\bar{2}\bar{1}0$ ] [ $\bar{1}10$ ]	<i>c</i> 211 L10	$[0, 1/2]$ $[1/4, 3/4]$ $[\pm s, (\frac{1}{2} \pm s)]$	$\rho$ 112 R8 $\rho$ 112 <sub>1</sub> R9 $\rho$ 1 R1
[1 $\bar{1}0$ ] [120] [210]	[110] [ $\bar{1}00$ ] [010]	<i>c</i> 121 L10	$[s, (s + \frac{1}{2})]$	$\rho$ 211 R3
Orientation $[uv0] = \mathbf{c}$	Scanning direction $\mathbf{d} = [pq0]$	Scanning group ( $\mathbf{c}, \mathbf{d}, \mathbf{z}$ )		
Any $u, v$	Any $p, q$	<i>p</i> 1 L1		

***p*3*m*1 No. 69**

Orientation $[uvw] = \mathbf{c}$	Scanning direction $\mathbf{d}$	Scanning group ( $\mathbf{c}, \mathbf{d}, \mathbf{z}$ )	Location $s\mathbf{d}$	Sectional rod group ( $\mathbf{d}, \mathbf{z}, \mathbf{c}$ )
[100] [010] [110]	[120] [ $\bar{2}\bar{1}0$ ] [ $\bar{1}10$ ]	<i>cm</i> 11 L13	$[s, (s + \frac{1}{2})]$	$\rho$ 11 <i>m</i> R10
[1 $\bar{1}0$ ] [120] [210]	[110] [ $\bar{1}00$ ] [010]	<i>c</i> 1 <i>m</i> 1 L13	$[0, 1/2]$ $[1/4, 3/4]$ $[\pm s, (\frac{1}{2} \pm s)]$	$\rho$ <i>m</i> 11 R4 $\rho$ <i>c</i> 11 R5 $\rho$ 1 R1
Orientation $[uv0] = \mathbf{c}$	Scanning direction $\mathbf{d} = [pq0]$	Scanning group ( $\mathbf{c}, \mathbf{d}, \mathbf{z}$ )		
Any $u, v$	Any $p, q$	<i>p</i> 1 L1		

**$p31m$  No. 70**

Orientation [uvw] = <b>c</b>	Scanning direction <b>d</b>	Scanning group ( <b>c, d, z</b> )	Location <b>sd</b>	Sectional rod group ( <b>d, z, c</b> )
[100] [010] [110]	[120] [2 $\bar{1}$ 0] [ $\bar{1}$ 10]	$c1m1$ L13	[0, 1/2] [1/4, 3/4] [ $\pm s, (\frac{1}{2} \pm s)$ ]	$\rho m11$ R4 $\rho c11$ R5 $\rho 1$ R1
[1 $\bar{1}$ 0] [120] [210]	[110] [ $\bar{1}$ 00] [010]	$cm11$ L13	[ $s, (s + \frac{1}{2})$ ]	$\rho 11m$ R10
Orientation [uv0] = <b>c</b>	Scanning direction <b>d</b> = [pq0]	Scanning group ( <b>c, d, z</b> )		
Any $u, v$	Any $p, q$	$p1$ L1		

**$p\bar{3}1m$  No. 71**

Orientation [uvw] = <b>c</b>	Scanning direction <b>d</b>	Scanning group ( <b>c, d, z</b> )	Location <b>sd</b>	Sectional rod group ( <b>d, z, c</b> )
[100] [010] [110]	[120] [2 $\bar{1}$ 0] [ $\bar{1}$ 10]	$c12/m1$ L18	[0, 1/2] [1/4, 3/4] [ $\pm s, (\frac{1}{2} \pm s)$ ]	$\rho 2/m11$ R6 $\rho 2/c11$ [1/4] R7 $\rho 211$ R3
[1 $\bar{1}$ 0] [120] [210]	[110] [ $\bar{1}$ 00] [010]	$c2/m11$ L18	[0, 1/2] [1/4, 3/4] [ $\pm s, (\frac{1}{2} \pm s)$ ]	$\rho 112/m$ R11 $\rho 112_1/m$ [1/4] R12 $\rho 11m$ R10
Orientation [uv0] = <b>c</b>	Scanning direction <b>d</b> = [pq0]	Scanning group ( <b>c, d, z</b> )		
Any $u, v$	Any $p, q$	$p\bar{1}$ L2		



**$p\bar{3}m1$  No. 72**

Orientation [uvw] = <b>c</b>	Scanning direction <b>d</b>	Scanning group ( <b>c, d, z</b> )	Location <b>sd</b>	Sectional rod group ( <b>d, z, c</b> )
[100] [010] [110]	[120] [2 $\bar{1}$ 0] [ $\bar{1}$ 10]	$c2/m11$ L18	[0, 1/2] [1/4, 3/4] [ $\pm s, (\frac{1}{2} \pm s)$ ]	$\rho 112/m$ R11 $\rho 112_1/m$ [1/4] R12 $\rho 11m$ R10
[1 $\bar{1}$ 0] [120] [210]	[110] [ $\bar{1}$ 00] [010]	$c12/m1$ L18	[0, 1/2] [1/4, 3/4] [ $\pm s, (\frac{1}{2} \pm s)$ ]	$\rho 2/m11$ R6 $\rho 2/c11$ [1/4] R7 $\rho 211$ R3
Orientation [uv0] = <b>c</b>	Scanning direction <b>d</b> = [pq0]	Scanning group ( <b>c, d, z</b> )		
Any $u, v$	Any $p, q$	$p\bar{1}$ L2		

**$p6$  No. 73**

Orientation [uvw] = <b>c</b>	Scanning direction <b>d</b>	Scanning group ( <b>c, d, z</b> )	Location <b>sd</b>	Sectional rod group ( <b>d, z, c</b> )
[100] [010] [110] [1 $\bar{1}$ 0] [120] [210]	[010] [ $\bar{1}$ 00] [ $\bar{1}$ 00] [100] [010] [ $\bar{1}$ 00]	$p112$ L3	0, 1/2 [s, -s]	$\rho 121$ R3 $\rho 1$ R1
Orientation [uv0] = <b>c</b>	Scanning direction <b>d</b> = [pq0]	Scanning group ( <b>c, d, z</b> )		
Any $u, v$	Any $p, q$	$p112$ L3		

**$p\bar{6}$  No. 74**

Orientation [uvw] = <b>c</b>	Scanning direction <b>d</b>	Scanning group ( <b>c, d, z</b> )	Location <b>sd</b>	Sectional rod group ( <b>d, z, c</b> )
[100] [010] [110] [1 $\bar{1}$ 0] [120] [210]	[010] [ $\bar{1}$ 00] [ $\bar{1}$ 00] [100] [010] [ $\bar{1}$ 00]	$p11m$ L4	$s$	$\rho 1m1$ R4
Orientation [uv0] = <b>c</b>	Scanning direction <b>d</b> = [pq0]	Scanning group ( <b>c, d, z</b> )		
Any $u, v$	Any $p, q$	$p11m$ L4		

**$p6/m$  No. 75**

Orientation [uvw] = <b>c</b>	Scanning direction <b>d</b>	Scanning group ( <b>c, d, z</b> )	Location <b>sd</b>	Sectional rod group ( <b>d, z, c</b> )
[100] [010] [110] [1 $\bar{1}$ 0] [120] [210]	[010] [ $\bar{1}$ 00] [ $\bar{1}$ 00] [100] [010] [ $\bar{1}$ 00]	$p112/m$ L6	0, 1/2 [s, -s]	$\rho 12/m1$ R6 $\rho 1m1$ R4
Orientation [uv0] = <b>c</b>	Scanning direction <b>d</b> = [pq0]	Scanning group ( <b>c, d, z</b> )		
Any $u, v$	Any $p, q$	$p112/m$ L6		

***p622* No. 76**

Orientation $[uvw] = \mathbf{c}$	Scanning direction $\mathbf{d}$	Scanning group ( $\mathbf{c}, \mathbf{d}, \mathbf{z}$ )	Location $\mathbf{sd}$	Sectional rod group ( $\mathbf{d}, \mathbf{z}, \mathbf{c}$ )
[100] [010] [110] [1 $\bar{1}$ 0] [120] [210]	[120] [2 $\bar{1}$ 0] [ $\bar{1}$ 10] [110] [ $\bar{1}$ 00] [010]	$c222$ L22	[0, 1/2] [1/4, 3/4] [ $\pm s, (\frac{1}{2} \pm s)$ ]	$\rho 222$ R13 $\rho 222_1$ R14 $\rho 211$ R3
Orientation $[uv0] = \mathbf{c}$	Scanning direction $\mathbf{d} = [pq0]$	Scanning group ( $\mathbf{c}, \mathbf{d}, \mathbf{z}$ )		
Any $u, v$	Any $p, q$	$p112$ L3		

***p6mm* No. 77**

Orientation $[uvw] = \mathbf{c}$	Scanning direction $\mathbf{d}$	Scanning group ( $\mathbf{c}, \mathbf{d}, \mathbf{z}$ )	Location $\mathbf{sd}$	Sectional rod group ( $\mathbf{d}, \mathbf{z}, \mathbf{c}$ )
[100] [010] [110] [1 $\bar{1}$ 0] [120] [210]	[120] [2 $\bar{1}$ 0] [ $\bar{1}$ 10] [110] [ $\bar{1}$ 00] [010]	$cm2$ L26	[0, 1/2] [1/4, 3/4] [ $\pm s, (\frac{1}{2} \pm s)$ ]	$\rho m2m$ R18 $\rho c2m$ R19 $\rho 11m$ R10
Orientation $[uv0] = \mathbf{c}$	Scanning direction $\mathbf{d} = [pq0]$	Scanning group ( $\mathbf{c}, \mathbf{d}, \mathbf{z}$ )		
Any $u, v$	Any $p, q$	$p112$ L3		

$p\bar{6}m2$  No. 78

Orientation [uvw] = <b>c</b>	Scanning direction <b>d</b>	Scanning group ( <b>c, d, z</b> )	Location <b>sd</b>	Sectional rod group ( <b>d, z, c</b> )
[100] [010] [110]	[120] [2 $\bar{1}$ 0] [ $\bar{1}$ 10]	$cm2m$ L35	$[s, (s + \frac{1}{2})]$	$\rho 2mm$ R18
[1 $\bar{1}$ 0] [120] [210]	[110] [ $\bar{1}$ 00] [010]	$c2mm$ L35	$[0, 1/2]$ $[1/4, 3/4]$ $[\pm s, (\frac{1}{2} \pm s)]$	$\rho mm2$ R15 $\rho cm2_1$ R17 $\rho 1m1$ R4
Orientation [uv0] = <b>c</b>	Scanning direction <b>d</b> = [pq0]	Scanning group ( <b>c, d, z</b> )		
Any $u, v$	Any $p, q$	$p11m$ L4		

$p62m$  No. 79

Orientation [uvw] = <b>c</b>	Scanning direction <b>d</b>	Scanning group ( <b>c, d, z</b> )	Location <b>sd</b>	Sectional rod group ( <b>d, z, c</b> )
[100] [010] [110]	[120] [2 $\bar{1}$ 0] [ $\bar{1}$ 10]	$c2mm$ L35	$[0, 1/2]$ $[1/4, 3/4]$ $[\pm s, (\frac{1}{2} \pm s)]$	$\rho mm2$ R15 $\rho cm2_1$ R17 $\rho 1m1$ R4
[1 $\bar{1}$ 0] [120] [210]	[110] [ $\bar{1}$ 00] [010]	$cm2m$ L35	$[s, (s + \frac{1}{2})]$	$\rho 2mm$ R18
Orientation [uv0] = <b>c</b>	Scanning direction <b>d</b> = [pq0]	Scanning group ( <b>c, d, z</b> )		
Any $u, v$	Any $p, q$	$p11m$ L4		

*p6/mmm* No. 80

Orientation $[uvw] = \mathbf{c}$	Scanning direction $\mathbf{d}$	Scanning group $(\mathbf{c}, \mathbf{d}, \mathbf{z})$	Location $\mathbf{sd}$	Sectional rod group $(\mathbf{d}, \mathbf{z}, \mathbf{c})$
$[100]$ $[010]$ $[110]$ $[1\bar{1}0]$ $[120]$ $[210]$	$[120]$ $[\bar{2}\bar{1}0]$ $[\bar{1}10]$ $[110]$ $[\bar{1}00]$ $[010]$	<i>cmmm</i> L47	$[0, 1/2]$ $[1/4, 3/4]$ $[\pm s, (\frac{1}{2} \pm s)]$	<i><math>\rho mmm</math></i> R20 <i><math>\rho cmm</math></i> $[1/4]$ R22 <i><math>\rho 2mm</math></i> R18
Orientation $[uv0] = \mathbf{c}$	Scanning direction $\mathbf{d} = [pq0]$	Scanning group $(\mathbf{c}, \mathbf{d}, \mathbf{z})$		
Any $u, v$	Any $p, q$	<i>p112/m</i> L6		