D_{2h}^{11} $P2/b2_1/c2_1/m$ No. 57 $Pbcm$

	Axes	Coordinates	Wyckoff positions $4a$	$4b$	$4c$	$4d$	$8e$
I Maximal *translationengleiche* subgroups							
[2] $Pbc2_1$ (29)			$4a$	$4a$	$4a$	$4a$	$2\times4a$
$\widehat{=}$ $Pca2_1$	**b**, **a**, −**c**	$y,x,-z$					
[2] $P2cm$ (28)		$x,y+\frac{1}{4},z$	$4d$	$4d$	$2a$; $2b$	$2\times2c$	$2\times4d$
$\widehat{=}$ $Pma2$	**c**, **b**, −**a**	$z,y+\frac{1}{4},-x$					
[2] $Pb2_1m$ (26)		$x,y,z+\frac{1}{4}$	$4c$	$4c$	$4c$	$2a$; $2b$	$2\times4c$
$\widehat{=}$ $Pmc2_1$	**c**, **a**, **b**	$z+\frac{1}{4},x,y$					
[2] $P22_12_1$ (18)		$x,y+\frac{1}{4},z$	$4c$	$4c$	$2a$; $2b$	$4c$	$2\times4c$
$\widehat{=}$ $P2_12_12$	**b**, **c**, **a**	$y+\frac{1}{4},z,x$					
[2] $P12_1/c1$ (14)			$2a$; $2c$	$2b$; $2d$	$4e$	$4e$	$2\times4e$
[2] $P2/b11$ (13)			$2a$; $2d$	$2b$; $2c$	$2e$; $2f$	$4g$	$2\times4g$
$\widehat{=}$ $P12/c1$	**c**, **a**, **b**	z,x,y					
[2] $P112_1/m$ (11)			$2a$; $2b$	$2c$; $2d$	$4f$	$2\times2e$	$2\times4f$
II Maximal *klassengleiche* subgroups							
Enlarged unit cell, non-isomorphic							
[2] $Pbnm$ (62)	2**a**, **b**, **c**	$\frac{1}{2}x,y,z$; $+(\frac{1}{2},0,0)$	$4a$; $4b$	$8d$	$8d$	$2\times4c$	$2\times8d$
$\widehat{=}$ $Pnma$	**b**, **c**, 2**a**	$y,z,\frac{1}{2}x$; $+(0,0,\frac{1}{2})$					
[2] $Pbnm$ (62)	2**a**, **b**, **c**	$\frac{1}{2}x+\frac{1}{4},y,z$; $+(\frac{1}{2},0,0)$	$8d$	$4a$; $4b$	$8d$	$2\times4c$	$2\times8d$
$\widehat{=}$ $Pnma$	**b**, **c**, 2**a**	$y,z,\frac{1}{2}x+\frac{1}{4}$; $+(0,0,\frac{1}{2})$					
[2] $Pbca$ (61)	2**a**, **b**, **c**	$\frac{1}{2}x,y,z$; $+(\frac{1}{2},0,0)$	$4a$; $4b$	$8c$	$8c$	$8c$	$2\times8c$
[2] $Pbca$ (61)	2**a**, **b**, **c**	$\frac{1}{2}x+\frac{1}{4},y,z$; $+(\frac{1}{2},0,0)$	$8c$	$4a$; $4b$	$8c$	$8c$	$2\times8c$
[2] $Pbna$ (60)	2**a**, **b**, **c**	$\frac{1}{2}x,y,z$; $+(\frac{1}{2},0,0)$	$4a$; $4b$	$8d$	$2\times4c$	$8d$	$2\times8d$
$\widehat{=}$ $Pbcn$	**c**, 2**a**, **b**	$z,\frac{1}{2}x,y$; $+(0,\frac{1}{2},0)$					
[2] $Pbna$ (60)	2**a**, **b**, **c**	$\frac{1}{2}x+\frac{1}{4},y,z$; $+(\frac{1}{2},0,0)$	$8d$	$4a$; $4b$	$2\times4c$	$8d$	$2\times8d$
$\widehat{=}$ $Pbcn$	**c**, 2**a**, **b**	$z,\frac{1}{2}x+\frac{1}{4},y$; $+(0,\frac{1}{2},0)$					
Enlarged unit cell, isomorphic							
[2] $Pbcm$	2**a**, **b**, **c**	$\frac{1}{2}x,y,z$; $+(\frac{1}{2},0,0)$	$4a$; $4b$	$8e$	$2\times4c$	$2\times4d$	$2\times8e$
[2] $Pbcm$	2**a**, **b**, **c**	$\frac{1}{2}x+\frac{1}{4},y,z$; $+(\frac{1}{2},0,0)$	$8e$	$4a$; $4b$	$2\times4c$	$2\times4d$	$2\times8e$
[3] $Pbcm$	3**a**, **b**, **c**	$\frac{1}{3}x,y,z$; $\pm(\frac{1}{3},0,0)$	$4a$; $8e$	$4b$; $8e$	$3\times4c$	$3\times4d$	$3\times8e$
[p] $Pbcm$	p**a**, **b**, **c**	$\frac{1}{p}x,y,z$; $+(\frac{u}{p},0,0)$	$4a$; $\frac{p-1}{2}\times8e$	$4b$; $\frac{p-1}{2}\times8e$	$p\times4c$	$p\times4d$	$p\times8e$
	p = prime > 2; $u=1,\ldots,p-1$						
[3] $Pbcm$	**a**, 3**b**, **c**	$x,\frac{1}{3}y,z$; $\pm(0,\frac{1}{3},0)$	$4a$; $8e$	$4b$; $8e$	$4c$; $8e$	$3\times4d$	$3\times8e$
[p] $Pbcm$	**a**, p**b**, **c**	$x,\frac{1}{p}y,z$; $+(0,\frac{u}{p},0)$	$4a$; $\frac{p-1}{2}\times8e$	$4b$; $\frac{p-1}{2}\times8e$	$4c$; $\frac{p-1}{2}\times8e$	$p\times4d$	$p\times8e$
	p = prime > 2; $u=1,\ldots,p-1$						
[3] $Pbcm$	**a**, **b**, 3**c**	$x,y,\frac{1}{3}z$; $\pm(0,0,\frac{1}{3})$	$4a$; $8e$	$4b$; $8e$	$4c$; $8e$	$4d$; $8e$	$3\times8e$
[p] $Pbcm$	**a**, **b**, p**c**	$x,y,\frac{1}{p}z$; $+(0,0,\frac{u}{p})$	$4a$; $\frac{p-1}{2}\times8e$	$4b$; $\frac{p-1}{2}\times8e$	$4c$; $\frac{p-1}{2}\times8e$	$4d$; $\frac{p-1}{2}\times8e$	$p\times8e$
	p = prime > 2; $u=1,\ldots,p-1$						

Nonconventional settings

interchange letters and sequences in Hermann–Mauguin symbols, axes and coordinates:

$Pmca$	$a\to b\to c\to a$	$\mathbf{a}\to\mathbf{b}\to\mathbf{c}\to\mathbf{a}$	$x\to y\to z\to x$
$Pbma$	$a\leftarrow b\leftarrow c\leftarrow a$	$\mathbf{a}\leftarrow\mathbf{b}\leftarrow\mathbf{c}\leftarrow\mathbf{a}$	$x\leftarrow y\leftarrow z\leftarrow x$
$Pcam$	$a\rightleftarrows b$	$\mathbf{a}\rightleftarrows-\mathbf{b}$	$x\rightleftarrows-y$
$Pmab$	$a\rightleftarrows c$	$\mathbf{a}\rightleftarrows-\mathbf{c}$	$x\rightleftarrows-z$
$Pcmb$	$b\rightleftarrows c$	$\mathbf{b}\rightleftarrows-\mathbf{c}$	$y\rightleftarrows-z$