C_{2v}^{21} No. 45 $Iba2$

	Axes	Coordinates	Wyckoff positions $4a$	$4b$	$8c$
I Maximal *translationengleiche* subgroups					
[2] $Ic11$ (9)			$4a$	$4a$	$2\times4a$
$\widehat{=}\,I1a1$	**c**, **a**, **b**	z,x,y			
$\widehat{=}\,C1c1$	**−b−c**, **a**, **c**	$-y,x,-y+z$			
[2] $I1c1$ (9)			$4a$	$4a$	$2\times4a$
$\widehat{=}\,I1a1$		$x,y+\frac{1}{4},y$			
$\widehat{=}\,C1c1$	**a−c**, **b**, **c**	$x,y,x+z$			
[2] $I112$ (5)			$2\times2a$	$2\times2b$	$2\times4c$
$\widehat{=}\,A112$	**b**, **−a−b**, **c**	$x+y,-x,z$			
II Maximal *klassengleiche* subgroups					
Loss of centring translations					
[2] $Pba2$ (32)			$2\times2a$	$2\times2b$	$2\times4c$
[2] $Pca2_1$ (29)		$x+\frac{1}{4},y+\frac{1}{4},z$	$4a$	$4a$	$2\times4a$
[2] $Pbc2_1$ (29)		$x+\frac{1}{4},y+\frac{1}{4},z$	$4a$	$4a$	$2\times4a$
$\widehat{=}\,Pca2_1$	**b**, **a**, **−c**	$y+\frac{1}{4},x+\frac{1}{4},-z$			
[2] $Pcc2$ (27)			$2a;2d$	$2b;2c$	$2\times4e$
Enlarged unit cell, isomorphic					
[3] $Iba2$	3**a**, **b**, **c**	$\frac{1}{3}x,y,z;\ \pm(\frac{1}{3},0,0)$	$4a;8c$	$4b;8c$	$3\times8c$
[p] $Iba2$	p**a**, **b**, **c**	$\frac{1}{p}x,y,z;\ +(\frac{u}{p},0,0)$	$4a;\frac{p-1}{2}\times8c$	$4b;\frac{p-1}{2}\times8c$	$p\times8c$
	$p=$ prime >2; $u=1,\ldots,p-1$				
[3] $Iba2$	**a**, 3**b**, **c**	$x,\frac{1}{3}y,z;\ \pm(0,\frac{1}{3},0)$	$4a;8c$	$4b;8c$	$3\times8c$
[p] $Iba2$	**a**, p**b**, **c**	$x,\frac{1}{p}y,z;\ +(0,\frac{u}{p},0)$	$4a;\frac{p-1}{2}\times8c$	$4b;\frac{p-1}{2}\times8c$	$p\times8c$
	$p=$ prime >2; $u=1,\ldots,p-1$				
[3] $Iba2$	**a**, **b**, 3**c**	$x,y,\frac{1}{3}z;\ \pm(0,0,\frac{1}{3})$	$3\times4a$	$3\times4b$	$3\times8c$
[p] $Iba2$	**a**, **b**, p**c**	$x,y,\frac{1}{p}z;\ +(0,0,\frac{u}{p})$	$p\times4a$	$p\times4b$	$p\times8c$
	$p=$ prime >2; $u=1,\ldots,p-1$				

Nonconventional settings

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

$I2cb$	$A\to B;\ C\to A$	$a\to b\to c\to a$	$\mathbf{a}\to\mathbf{b}\to\mathbf{c}\to\mathbf{a}$	$x\to y\to z\to x$
$Ic2a$	$A\to C;\ C\to B$	$a\leftarrow b\leftarrow c\leftarrow a$	$\mathbf{a}\leftarrow\mathbf{b}\leftarrow\mathbf{c}\leftarrow\mathbf{a}$	$x\leftarrow y\leftarrow z\leftarrow x$