

# Space group tables

## International Tables for Crystallography, Vol. A

**$P4bm$**   **$C_{4v}^2$**   **$4mm$**  **Tetragonal**  
**No. 100**  **$P4bm$**  **Point group:  $P4mm$**

Origin at 1/2

Symmetry with  $PC(2)$ ,  $PC(4)$ ,  $PC(2)$ ,  $PC(4)$

Symmetry operations

(1) 1	(2) 2 $z$ -axis	(3) 4 <sup>+</sup> $z$ -axis	(4) 4 <sup>-</sup> $z$ -axis
(5) 2 $x$ -axis	(6) 2 $y$ -axis	(7) 2 $xy$ -plane	(8) 2 $yz$ -plane

Generators selected (1), (2), (3), (4), (5), (6), (7), (8)

Positions

Origin at 0,0,0	Coordinates				Reflection conditions
	No. of positions				
4 $z$ 1	(1) $x,y,z$	(2) $x,y,z$	(3) $x,y,z$	(4) $x,y,z$	General
	(5) $x+1/2,y+1/2,z$	(6) $x+1/2,y+1/2,z$	(7) $x+1/2,y+1/2,z$	(8) $x+1/2,y+1/2,z$	$hkl$ $h-k=2n$ $0kl$ $l=2n$
4 $z$ 2	$x,y,z$	$x,y,z$	$x,y,z$	$x,y,z$	Special in $hkl$ , $gkl$
2 $z$ 2mm	$00z$	$00z$			$hkl$ $h+k=2n$
2 $z$ 4	$00z$	$00z$			$hkl$ $h+k=2n$

Symmetry of spatial projections

Along (100) $g$ -axis	Along (100) $g$ -axis	Along (100) $g$ -axis
$a' = a$ $b' = b$	$a' = b$ $b' = a$	$a' = b = a$ $b' = a = b$
Origin at $0,0,0$	Origin at $0,0,0$	Origin at $0,0,0$

Maximal non-isomorphic subgroups

4	(1) $P4112/P4$	1, 2, 2, 4
	(2) $P211/P2$	1, 2, 2, 2
	(3) $P21m/C2/m$	1, 2, 2, 2

See also

(10) (1)  $P4_2/m$  (2)  $P4_2/m$  (3)  $P4_2/m$  (4)  $P4_2/m$

# Crystal Data Space Group Tables

**Jiyuan Zhang**



## **Crystal Data Space Group Tables:**

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Crystal Data Space-group Tables Alan D. Mighell, Helen M. Ondik, Bettijoyce Breen Molino, 1977  
NBS Technical Note, 1980-06

*International Tables for Crystallography, Space-group Symmetry* Mois I. Aroyo, 2017-02-13 International Tables for Crystallography is the definitive resource and reference work for crystallography and structural science Volume A of the series Space group symmetry contains diagrams and tables of data for the 17 plane groups the 230 space groups and the 32 crystallographic point groups This new edition is edited by M I Aroyo and has been extensively updated and revised Part 1 of the volume provides an introduction to space group symmetry It includes chapters on groups crystallographic and space group symmetry descriptions of space groups coordinate system transformations and

methods of space group determination The final chapter provides a useful introduction to topics treated in more depth in Volumes A1 and E of the series The chapters in this part have been written with teaching in mind and will prove invaluable for undergraduates or graduates wishing to learn about symmetry in crystallography while providing a clear introduction to the topic for researchers from other disciplines Part 2 of the volume presents the diagrams and tables of plane and space group data The layout of the tables of data the symbols used in the diagrams and the classification of the space groups are explained in a useful guide Together these form an essential resource not only for professional crystallographers but also for chemists physicists mineralogists biologists and material scientists who employ crystallographic methods and who are concerned with the structure and the properties of crystalline materials Part 3 treats more advanced topics on space group symmetry and covers crystal lattices point groups and crystal classes space group symbols and their use lattice complexes normalizers of space groups and magnetic subperiodic groups and magnetic space groups There are eight new chapters in this 6th edition of Volume A and five chapters have been revised The layout of the space group tables has been simplified as the sub and supergroup data are now available in Volume A1 and there are new general position diagrams for the cubic space groups Additional diagrams showing tilted perspective views of some of the more complex cubic space groups are also provided More information on the series can be found at <http://it.iucr.org>

*International Tables for Crystallography* Moiss I. Aroyo, 2021-07-06 This sixth edition of what was previously known as the Brief Teaching Edition of Volume A provides an introduction to the basic crystallographic data for space groups found in Volume A for symmetry relations between space groups in Volume A1 and for subperiodic groups in Volume E of *International Tables for Crystallography* to magnetic space groups and to the symmetry database that forms part of *International Tables Online* at <https://it.iucr.org> It is designed for graduate students and young researchers who are new to the field of crystallographic symmetry and includes many illustrative examples to help readers to understand and use these different kinds of information Selected tables of symmetry data from the full volumes in the series are also included making this a handy aid for classroom teaching References are also provided to further specialized sources for those who need to go deeper into the subject and to textbooks for those who need more background information

**International Tables for Crystallography, Volume E** V. Kopsky, D.B. Litvin, 2002-12-31 *International Tables for Crystallography* are no longer available for purchase from Springer For further information please contact Wiley Inc follow the link on the right hand side of this page *International Tables for Crystallography Volume E Subperiodic groups* covers the seven frieze groups the 75 rod groups and the 80 layer groups The information tabulated for these groups is identical in format and content as that given for the 230 space groups in Volume A In addition scanning tables are given for each of the 230 space groups These scanning tables give the largest subgroup of the space group that leaves the given plane invariant The use of the scanning tables is shown in determining the symmetry of domain walls

**Crystallographic Databases**, 1987

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International Tables for Crystallography Volume G Definition and exchange of crystallographic data describes the standard data exchange and archival file format the Crystallographic Information File or CIF used throughout crystallography It provides in depth information vital for small molecule inorganic and macromolecular crystallographers mineralogists chemists materials scientists solid state physicists and others who wish to record or use the results of a single crystal or powder diffraction experiment The volume also provides the detailed data ontology necessary for programmers and database managers to design interoperable computer applications The accompanying CD ROM contains the CIF dictionaries in machine readable form and a collection of libraries and utility programs This volume is an essential guide and reference for programmers of crystallographic software data managers handling crystal structure information and practising crystallographers who need to use CIF      **Proceedings of**

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Hahn,1984 **Acta Crystallographica** ,1925

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