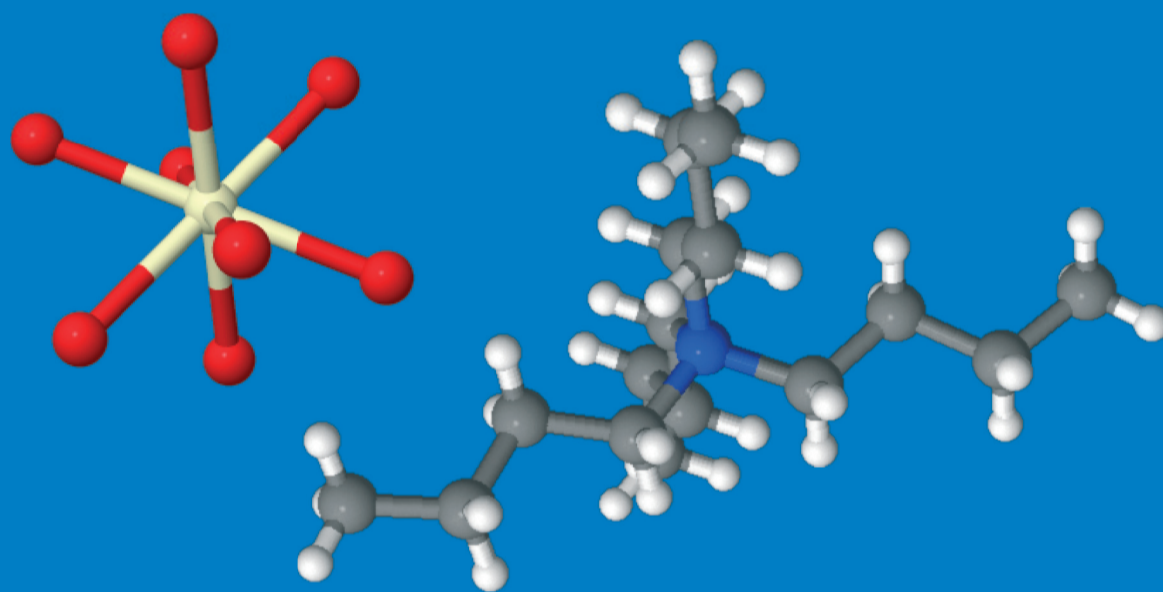


PDS – V 2012

Powder Diffraction School

Structure and Microstructure

27–29 November 2012 • Paul Scherrer Institut • 5232 Villigen PSI • Switzerland



Speakers

N. Masciocchi (Uni Insubria, Como)
 P. Macchi (Uni Berne)
 B. Patterson (PSI)
 R. Černý (Uni Geneva)
 A. Cervellino (PSI)
 S. Leake (PSI)
 N. Casati (PSI)
 L. McCusker (ETH Zurich)
 D. Sheptyakov (PSI)
 S. Vaucher (EMPA Thun)
 P. Pattison (EPFL Lausanne & SNBL, Grenoble)
 A. Guagliardi (CNR Bari & Uni Insubria, Como)
 A. Menzel (PSI)

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Scope

The school aims to give a general overview of modern powder diffraction methods for analyzing the atomic structure and microstructure of materials. The first two sessions will cover powder diffraction studies of the atomic structure and studies of the microstructure. Applications in different fields of interests will be illustrated. In the third session, modern and advanced topics – simultaneous spectroscopy, neutron powder diffraction, time-resolved in-situ methods, extreme conditions, and a glimpse at the near future, with diffraction applications of the SwissFEL – will be covered. An experimental session will follow at the Powder Diffraction station of the MS beamline of the SLS, where different experiments will be executed. In the fifth session, the collected data will be analyzed by different methods and programs, according to the intended purpose. Finally, a general discussion and farewell will close the proceedings.

Topics

Atomic Structure Determination
 Microstructure Analysis
 Special and Advanced Topics

Organization

Antonio Cervellino
 Nicola Casati
 Martina Füglistner (secretariat)