

Disorder and structural flexibility in minerals and beyond

Ella M. Schmidt

University of Bremen, Faculty of
Geosciences, MARUM and MAPEX

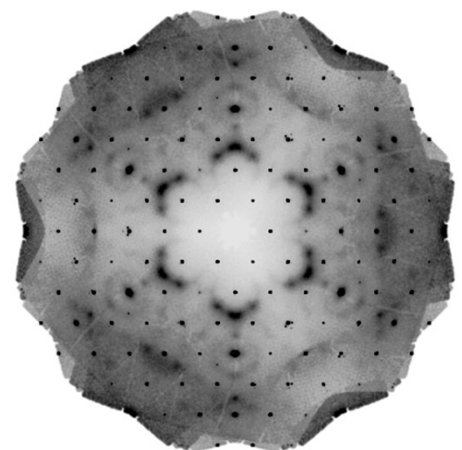
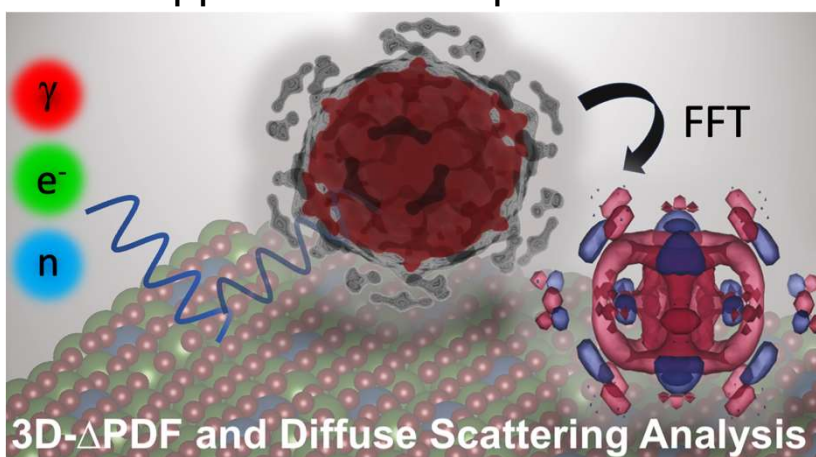
Series of two seminars at the Department of Earth Sciences,
Via G. La Pira 4, Firenze.

May 20th, 16.30 Introduction to disorder diffuse scattering – Structure analysis beyond Bragg reflections

Crystalline materials are characterized by long-range periodic order. However, many materials can and often do exhibit disorder. Understanding the structure-property relationships in disordered materials is one of the key challenges in modern structural science, where disorder can trigger phenomena that are inaccessible in ordered states.

May 21st, 14.30 Analysis of diffuse scattering – Educational case studies

Disorder in crystalline materials is often not random but correlated. A series of case studies about how single crystal diffuse scattering can be used to understand local ordering principles using the 3D- Δ PDF approach will be presented.



For more info contact Marta Morana and Giovanni Orazio Lepore (DST)
0.5 ECTS awarded to PhD students attending the seminars