



## Shaping a World-class University Lecture Series

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## Single crystal X-ray diffraction for the structural determination of supramolecular materials

The seminars will range from the basics of crystallography and diffraction to state-of-the-art equipment and methods, also beyond X-ray radiation. The hands-on sessions will demonstrate and enable the participants to follow a classic structure determination of simple molecules from SC-XRD data. Easy examples will be refined individually. The Lecture series is open for all faculty, PhD students, Master Students, fellows, trainees, and scientific staff of the Department of Chemical Sciences.

**Seminar 1:** Basic Introduction to Crystallography, Diffraction and Instrumentation (Part I) – 18/09/2023 – 9:30-11:30 – aula F.

**Seminar 2:** Basic Introduction to Crystallography, Diffraction and Instrumentation (Part II) – 19/09/2023 – 9:30-11:30 – aula F.

**Seminar 3:** SC-XRD in the Context of Supramolecular Materials: From Molecules to MOFs – 20/09/2023 – 9:30-11:30 – aula E.

**Seminar 4:** Quo Vadis?: State-of-the-Art Developments Beyond Single-Crystal XRD – 22/09/2023 – 9:30-11:30 – aula N.

**Hands-on 1:** The Course of a SC-XRD measurement & Software Introduction - 25/09/2023 – 9:00-13:00 – aula E.

**Hands-on 2:** Isotropic and Anisotropic Refinement - 26/09/2023 – 9:00-13:00 - aula E.

**Hands-on 3:** Split-Layer Refinement, Restraints and Constraints - 27/09/2023 – 9:00-13:00 – aula E.

**Hands-on 4:** Creating the CIF-File and Publishable Figures - 28/09/2023 – 9:00-13:00 – aula E.

Acknowledgements: Shaping a World-class University 2022

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