

Announcement

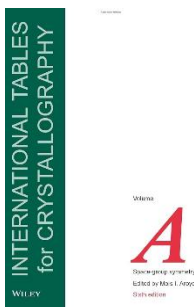
Winter Semester 2026/27

Lab Course Crystallography and structural chemistry

ACK**Lecturers:**

Priv.-Doz. Dr. Oliver Janka

Dr. Bernd Morgenstern

**Teams:****Further information:**Scope and Credits: 6 SWS (9 CP)Lecture: Tuesday, Wednesday and Friday
13:00 - 16:30Start: **12.10.2026, 13:00 – introduction**Location: Seminar Room –1.01, C4.3**LSF:****Description:**

The investigation and structural description of solids in three-dimensional space is a fundamental basis for understanding the chemical and physical properties of matter. Chemical reactivity as well as electronic and magnetic properties of solids are consequences of the three-dimensional arrangement of atoms. As part of the course, participants are introduced to basic crystallographic concepts and the description of mainly crystalline solids (ACK-T). The first part finishes with a written exam. The second and third parts cover powder and single-crystal X-ray diffraction both from theory and practice.

Content:

Crystallographic basics: symmetry principles, space groups; X-ray diffraction (powder and single crystal), evaluation of diffraction data, quantitative phase analysis & real structure, other diffraction methods, combination of methods, pair distribution function

Target group:

Students of the natural sciences Master's programs, AC05 & AC10 form the basis for this course.

Registration:

Registration is possible until Friday, 02.10.2026, 12:00 h (noon) and takes place via the LSF. The number of participants for the second and third part is limited to 8 persons.