



IFMP Seminar

Date Monday, May 04, 2026, at 14:50

REC/C213

Zoom: 633 2801 2201, Passcode: IFMP2025-6

Speaker **Esteban Aguirre García**

IFMP, TU Dresden

Title **Temperature- and Pressure-Dependent Structural Studies of γ -PtBi₂**

Abstract Trigonal PtBi₂ is a promising platform for several phenomena that are rarely observed together. It exhibits topological properties, surface superconductivity, and has also been proposed as a potential host for Majorana fermions, quasiparticles of considerable interest for quantum computing. Although some of its properties have been studied, important aspects remain to be clarified. In the present work, we perform pressure-dependent x-ray diffraction (XRD) measurements to investigate the crystal structure under varying pressure conditions. In addition, we analyze the electronic structure using *ab initio* density functional theory (DFT) calculations.

Host: J. Geck