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Time resolved Resonant Inelastic X-ray Scattering and X-Ray Diffraction on Quantum Materials at Furka experimental station at Athos

Tuesday, 29 October 2019 09:30 (10 minutes)

Over the last few years Free Electrons Lasers (FEL) have developed as a powerful tool to perform ultrafast spectroscopy in the XUV, Soft- and Hard- X-ray. In this talk I will introduce the experimental endstation Furka of the soft x-ray beamline (Athos) of the SwissFEL. The Furka experimental endstation will be dedicated to time-resolved X-Ray Diffraction (tr-XRD) and to time-resolved Resonant Inelastic X-ray Scattering (tr-RIXS) experiments in the soft X-ray regime. In particular, tr-RIXS opens new scientific opportunities thanks to its unique capability to probe the energy and momentum time-evolution of elementary excitations in solids.

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Session Classification: Facilities