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[612] Ultrafast dynamics in quantum matter: capabilities of Furka endstation at SwissFEL

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Time-resolved spectroscopies have provided various insights in the quest for understanding the fundamental properties of quantum materials and towards controlling their functional properties through light-matter interaction. In this regard, Free Electrons Lasers (FEL) have developed as a powerful tool to perform ultrafast X-ray spectroscopy allowing to obtain time-, energy- and momentum-resolved information. In this contribution, I will introduce the SwissFEL soft-X-ray condensed matter experimental endstation, named Furka, which will be dedicated to time-resolved X-ray absorption (TR-XAS), resonant X-ray diffraction (TR-RXRD) and Resonant Inelastic X-ray Scattering (TR-RIXS) experiments to study correlated and quantum materials. Finally I will present the results of the very first commissioning experiments performed at Furka.

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