The scientific scope of Ultrafast Science research unit (D4 - Prof. D. Turchinovich, Prof. W. Pfeiffer) is the studies of dynamics of electrons, lattice, and spins in condensed matter on the ultrafast timescales ranging from attoseconds ($10^{-18}$ s) to picoseconds ($10^{-12}$ s). Advanced experimental techniques used in our research unit range from attosecond XUV spectroscopy to femtosecond nano-optics to terahertz spectroscopy, implemented in many different modalities. All our research methods rely on highly-elaborate femtosecond laser infrastructure, established within the research unit.

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