The group has a long-standing experience in the investigation of inter- and intra-molecular charge and energy transfer processes, ultrafast coherent and incoherent dynamics, and nonlinear optical response in complex systems like molecular crystals, molecular aggregates, metal and semiconductor nanoparticles. To this end we have developed experimental set-ups for time and frequency resolved optical spectroscopy experiments: 2D-electronic spectroscopy with fs resolution, transient absorption in the fs and ps time domain, time resolved fluorescence microscopy: FLIM and FCS, Raman and SERS spectroscopy, multiphoton absorption through Z-scan and fluorescence excitation experiments.


