GRK 2905
Ultrafast
Nanoscopy

Colloquium

Friday, Jan 23, 2026
14:00 h
RUN Auditorium

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Single-molecule optics with atomic precision

Luminescence, photosynthesis, and energy harvesting rely on processes originating at the spatial scale of individual molecules. Investigating the details of these mechanisms requires reaching sub-nm precision in optics, which becomes possible by combining optical spectroscopy with scanning probe microscopy. In my talk, I will discuss how atomic-scale optics can be used to study the optical properties of single molecules and to drive photochemistry with sub-nm precision.

Coffee & Discussion