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## O 75: Plenary Talk (Lukas Novotny)

Time: Thursday 14:00–14:45

Location: HSZ 02

### Plenary Talk

O 75.1 Thu 14:00 HSZ 02

#### Optical Antennas for Enhanced Light-Matter Interactions —

•LUKAS NOVOTNY — ETH Zürich, Photonics Laboratory, 8093 Zürich

Optical antennas consisting of plasmonic materials provide extreme light localization and small mode volumes, thereby boosting the sensi-

tivity and signal-to-noise ratio in applications ranging from single photon sources to photodetection. Optical antennas can also be employed to efficiently control and manipulate light on the nanometer scale and to achieve directional emission. I will review the physical properties of optical antennas, present recent results, and discuss applications.