



## **IAPP-Institutsseminar**

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## **Coherent, Nonlinear, and Active Nanoplasmonics**

Nanoplasmonic phenomena are based on the resonant excitation of surface plasmons leading to the highly enhanced local optical fields on the nanometer scale. These fields cause a multitude of enhanced optical effects that have many existing and prospective applications. The following topics will be considered in the talk.

- (i) Adiabatic transformation of the external laser radiation and its delivery to the nanoscale as the localized surface plasmons.
- (ii) Coherent control of the intensity and spatial distribution of local optical fields on the nanoscale.
- (iii) Generation of the local optical fields directly on the nanoscale by Surface Plasmon Amplification by Stimulated Emission of Radiation (SPASER). We will discuss perspective applications.

Zeit: Donnerstag, 23.6.2005, 14:50

Ort: Beyer-Bau, Hörsaal 98

Gäste sind herzlich willkommen!