

**FAKULTÄT für PHYSIK  
LUDWIG-MAXIMILIANS-UNIVERSITÄT  
MÜNCHEN/GARCHING**

**PHYSIK-DEPARTMENT  
TECHNISCHE UNIVERSITÄT MÜNCHEN  
MÜNCHEN/GARCHING**

## **MLL-KOLLOQUIUM**

**Donnerstag, 01.02.2018, 16<sup>15</sup> Uhr**

Hörsaal der LMU in Garching, Am Coulombwall 1  
Treffen zum gemeinsamen Kaffee 16 Uhr

**Prof. Uwe Morgner**

**(Leibniz-Universität und Laser-Zentrum Hannover)**

### **Plasmonic Nanoantennas in Strong Femtosecond Laser Fields**

In direct vicinity of gold nanostructures, plasmonic resonances can provide an enhancement orders of magnitude beyond the incident laser field. Here, non-linear strong field phenomena can be studied with moderate laser pulse energies directly from a mode-locked Ti:sapphire laser oscillator. Harmonic generation, surface ablation, and a surprising self-optimization of the nanoantennas is observed and analyzed.

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