

ULTRA-STRONG LIGHT- MATTER INTERACTION IN ATOMS & SEMICONDUCTORS

STEPHAN W. KOCH

Philipps Universität Marburg,
Fachbereich Physik

The highly off-resonant interaction of matter with extremely strong ultra-short electromagnetic pulses induces a wide variety of fascinating phenomena such as ultrafast adiabatic following, very-high harmonic generation, field ionization, and dynamic Bloch oscillations. Besides the common features of optically driven atomic systems and THz excited semiconductors there are fascinating differences that can be traced back to the atomic periodicity in crystalline solids.

FRIDAY,
11.12.2015

2:00 PM

CFEL
SEMINAR ROOMS I-III

