



PHYSIKALISCHES KOLLOQUIUM

des Fachbereichs Physik
der Johann Wolfgang Goethe-Universität Frankfurt

Mittwoch, den 14.06.2017, 16 Uhr c.t.
Großer Hörsaal, Raum _0.111,
Max-von-Laue-Str. 1



Prof. Dr. Francesca Calegari

Attosecond Science group
DESY - Photon Science Division
University of Hamburg

"Attosecond tracing of electron dynamics in bio-relevant molecules and nanoparticles"

Observing electron dynamics in matter on its natural time scale requires attosecond technology. We show how isolated attosecond pulses can be used in combination with phase-stable infrared pulses to track ultrafast charge dynamics in bio-relevant molecules such as amino acids and nucleobases as well as in nanoparticles. Our results open new important perspectives for a future understanding of the role of the electronic motion in the photochemistry of complex molecules.

Die Dozenten der Physik

local host: Prof. Dr. Jens Bredenbeck, bredenbeck@biophysik.uni-frankfurt.de