

SFB  
1078



Protonation Dynamics  
in Protein Function

Mon, Feb. 13,  
2017

16:15 – 18:30

Freie Universität Berlin  
Physics Department  
Lecture Hall B

(Arnimallee 14, 14195 Berlin-Dahlem)

## ➤ Colloquium

➤ **Prof. Marc Brecht** – Universität Tübingen and Hochschule Reutlingen, Germany

### ***Tuning the optical properties of Photosystem I with subwavelength microcavities and plasmonic nanoparticles***

Marc Brecht's research interests at the University of Tübingen comprise *biophysics*, in particular light-harvesting and energy transfer in Photosystem I, *bio-nano physics*, the interaction of photosynthetic proteins with nano-materials, and *methods developments*, like 3D imaging at cryogenic temperatures and data analysis tools for statistical evaluation of data from single molecules. In 2016, Marc Brecht was also appointed professor at the Hochschule Reutlingen to bridge both science locations Tübingen and Reutlingen. In his lecture, Prof. Brecht will elucidate the fluorescence and energy transfer properties of PS I.

➤ **Dr. Erik T. J. Nibbering** – Max-Born-Institut für Nichtlineare Optik und Kurzzeitspektroskopie, Berlin, Germany

### ***Hydrogen bond and proton transfer dynamics: using IR and soft x-ray local spectroscopic probes***

Erik Nibbering's research interests cover the areas of ultrafast chemical reaction dynamics in liquids and solutions and ultrafast structure resolving techniques probing molecular vibrations. The overall goal is to understand more about the hydrogen bond dynamics, bimolecular proton transfer, electron transfer and proton-coupled electron transfer as well as conformational changes of molecular switches and structural dynamics of biomolecular systems. In his lecture, Dr. Nibbering will present recent results using IR and soft x-ray local probes.

Coffee and tea are ready at 16:00 and during the break from 17:10 – 17:30.

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