

SFB  
1078



Protonation Dynamics  
in Protein Function

Mon, May 28,  
2018

15:15 – 17:30

Freie Universität Berlin  
Physics Department  
Lecture Hall B

(Arnimallee 14, 14195 Berlin-Dahlem)

## ➤ Colloquium

➤ **Prof. Sandra Luber** – Universität Zürich, Switzerland

### ***Advanced ab initio simulations for spectroscopy and artificial water splitting***

Prof. Luber's research in theoretical and computational chemistry includes various topics such as investigation of chiral systems, purpose-driven spectroscopy, vibrational spectroscopy for condensed phase systems and interfaces, analysis of functional compounds as well as catalysis and design. Furthermore, Sandra Luber and her group contribute implementations to major program packages like Turbomole, MOVIPAC and CP2K. More information on her research topics and selected publications can be obtained online from Prof. Luber's [webpages](#) at the University of Zurich UZH.

➤ **Prof. Jasper van Thor** – Imperial College London, UK

### ***Photosynthetic Exciton Dynamics and Charge Separation in Time and Space***

Prof. van Thor's research group works on the structural dynamics of light sensitive proteins, using primarily ultrafast pump-probe techniques. The main experimental methods that are used are ultrafast X-ray crystallography, ultrafast optical crystallography and ultrafast vibrational and visible spectroscopy. The research focuses on developing and using new experimental and also theoretical tools to find real-space information on ultrafast structural processes. Prof. van Thor and his group investigate light sensitive systems, including fluorescent proteins, photosynthesis, and photoreceptor proteins such as phytochromes and the photoactive yellow protein.

Coffee and tea are ready at 15:00 and during the break from 16:15 – 16:30.

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