SFB 1078

Protonation Dynamics in Protein Function

Mon, **June 25**, 2018

15:15 – 17:30

Freie Universität Berlin
Physics Department
Lecture Hall B

(Arnimallee 14, 14195 Berlin-Dahlem)

Colloquium

Prof. Martin Zanni – University of Wisconsin, Madison, USA

Cats but not rats? Hominids but not Hamsters? A study into the molecular mechanism of Type 2 diabetes using 2D IR spectroscopy

The head note of Prof. Zanni's research group is: "We develop and utilize ultrafast multi-dimensional spectroscopies to study topics in biophysics and material science." Thus besides technological aspects in ultrafast spectroscopies like various 2D methods (2D IR, 2D SFG, 2D white light, etc.) and pulse-shaping in the Mid-IR, Martin Zanni and his coworkers contribute to biophysical research like amyloid folding and inhibitors, membrane peptides and aggregation of crystalline proteins. Material science research on energy transfer in carbon nanotubes , for instance, and charge transfer at organic/inorganic interfaces round Martin Zanni's research activities.

Prof. Bettina Keller – Freie Universität Berlin

A pH-sensitive allosteric network modulates the Ca^{2+}-affinity in C-type lectin receptor Langerin

Dr. Keller is an assistant professor (Jun.Prof.) in physical and theoretical chemistry at the Institute for Chemistry and Biochemistry of FU Berlin. Her expertise includes computational chemistry, theoretical biophysics and stochastic models. For more details visit the Keller Group website.

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

www.sfb1078.de

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