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**UNIVERSITÄT
BERN**

Seminar über Ultrafast Science and Technology

Referent: Michela Gazzetto, Institute of Applied Physics, University of Bern

Titel: Cancelled!! - Charge and energy transfer processes in Photoactive Molecular Materials

I will present a study of ultrafast energy transfer and charge transfer processes in different photoactive macromolecular systems by means of femtosecond UV-Vis transient absorption spectroscopy. I will illustrate our progress in the comprehension of such processes and their key-role in the photo-response of different molecular systems with few examples from my research activity. As first example I will introduce a family of hyper-polarizable chromophores showing anti-Kasha behavior, capable to behave as multi-responsive optical switch. As second example I will present the photophysics of a novel family of carbon-based nanodots, fluorescent nanomaterials with an appealing combination of properties, such as a fluorescence tunability, bio-compatibility, photo- and chemical stability.

Zeit: Donnerstag, 09.11.2017, 11:15 Uhr

Ort: **Hörsaal B116**, Gebäude exakte Wissenschaften, Sidlerstrasse 5, Bern, Schweiz