

Institutskolloquium

Am Montag, den **15. Dezember 2008, 16.00 Uhr** spricht:

Prof. Dr. Martin Zanni
University of Wisconsin, Department of Chemistry, Madison

über

**“The technology behind mid-IR pulse shaping
along with its application of automating 2D IR
spectroscopy for following amyloid aggregation”**

Abstract: My research group has developed an acousto-optic modulator for femtosecond pulse shaping in the mid-infrared. This new shaper makes it possible to create trains of mid-IR pulses with controllable phases and amplitudes that can be used to control molecular vibrations and collect 2D IR spectra. This talk will contain an overview of the technology behind our device as well as a description of the new capabilities it gives to 2D IR spectroscopy. Applications to amyloid folding kinetics and coherent control of ground state motions will be provided.

**Ort: Max-Born-Saal,
MBI, Max-Born-Str. 2a**

Interessenten und Gäste sind herzlich eingeladen.

Prof. Dr. T. Elsässer