

Institutskolloquium

Am Mittwoch, den **23. März 2011, 16:00 Uhr** spricht

Prof. Dr. Peter Vöhringer
Institut für Physikalische und Theoretische Chemie,
Rheinische Friedrich-Wilhelms-Universität

über

‘Multidimensional vibrational resonance: An IR-spectroscopic window to dynamics in hydrogen-bonded systems’

Abstract:

Multidimensional infrared spectroscopy with femtosecond laser pulses is applied to reveal ultrafast elementary chemical processes of hydrogen-bonded systems in condensed media. The exquisite sensitivity of high-frequency intramolecular stretching oscillators to the local configuration of the hydrogen-bonds in which they are engaged can be utilized to explore in detail structural, energetic, and phase relaxation dynamics of a great variety of systems starting from associated bulk liquids, to supramolecular host-guest complexes, to synthetic low-dimensional hydrogen-bond networks.

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

Interessenten und Gäste sind herzlich eingeladen.

Prof. Dr. T. Elsässer