



## SEMINAIRE ISMO

**Markus GERHARDS**

*Department of Chemistry of Technische Universität Kaiserslautern, Germany*

### **Combined IR/UV spectroscopy in the gas phase: From isolated peptides to proton wires and metal/ligand aggregates**

Hydrogen bonds range among several biological and photoreactive systems. The application of mass and isomer selective combined IR/UV spectroscopy to isolated molecules and clusters in molecular beam experiments offer very powerful techniques to investigate e.g. driving forces to form secondary structures in peptides, processes of microsolvation, reactions in electronically excited states or catalytical activations in metal containing aggregates.

An overview ranging from the analysis of peptide aggregates to transition metal/alcohol clusters up to a detailed IR analysis of proton wires in electronically excited states of flavonoids is given.

\* \* \* \* \*

**Mardi 26 février 2013 à 11h**  
**Bât. 210 – Amphi 1 (2<sup>ème</sup> étage)**  
*Université Paris-Sud 91405 ORSAY Cedex*