Julius-Maximilians-
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FOR 1809

Donnerstag, 05.02.2015 **Hörsaal C, Chemie Zentralbau, 17:15 Uhr**

Sprecher: Majed Chergui

Ecole Polytechnique Fédérale de Lausanne

Thema: Intramolecular excited state relaxation at sub-vibrational time scales

Abstract:

With the improvement of ultrafast spectroscopic tools such as fluorescence up-conversion and transient absorption spectroscopy , as well as, the implementation of novel ones, such as liquid phase photoelectron spectroscopy, there is a growing body of new observation that lead to a revision of several assumptions about the time scales of intramolecular relaxation processes, such as internal conversion, intramolecular vibrational redistribution and intersystem crossing. We will review some examples concerning molecules in solution and show how internal conversion occurs at extremely fast time scales (<10 fs), while intersystem crossing can also be ultrafast and completely uncorrelated to the spin-orbit constant of its constituents.

Organisation: C. Lambert

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