Hamburg Photon Science Colloquium

ULTRAFAST NON-ADIABATIC PHOTOCHEMISTRY REVEALED BY FEMTOSECOND IMAGING

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The most general case of photoinduced reactions is through non-adiabatic transitions. The complex landscape of potential energy surfaces (PESs) describing molecular excited states is characterized by the presence of conical intersections (CIs). The coupling between electronic motion and vibrations at the CIs are at the core of photochemistry. Ultrafast lasers can achieve electric fields intense enough to modify the PESs and the photochemical observables. The manipulation achieved by strong lasers is accomplished by creating light-induced CIs and light-induced potentials.

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