Physikalisches Institut
Fakultät für Mathematik und Physik
Albert-Ludwigs-Universität Freiburg

IRTG-Seminar

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“Supramolecular photo-processes in weakly bound molecular complexes”

Many examples of crucial effect of a weakly bound environment on photo-processes in molecules are known: dramatic environment-induced enhancement of photo-absorption and the appearance of new, surroundings-induced absorption bands in oxygen and iodine, singlet exciton fission in dimers of polyaromatic electron donors, photo-generation of reactive singlet oxygen on the surface of photo-catalysts and others. The experimental approach using a Van der Waals complex as a model system together with velocity map imaging of the photofragments is a combination providing insight into the nature of supramolecular electronic states in weakly bound complexes. The power of this approach is illustrated and several applications are discussed.

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