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AG Dynamics of Molecular Systems

Time-resolved spectroscopy on iron based photosensitizers

Renewable energy fuels generated with the help of solar energy are already in the focus of current research. Systems applying photosensitizers responsible for the absorption of sun light are investigated on a large scale with noble metals like iridium and ruthenium. To avoid these noble metals one can use iron complexes being earth-abundant, inexpensive, environmentally benign and show a better absorption bandwidth in the visible range. But there are several problems with iron complexes to solve. I would like to present these problems, their possible solutions and time-resolved spectroscopy based on transient absorption as method for characterizing the light induced processes in the sensitizers.

Talk: English
Slides: English

Location: Institute of Physics, Albert-Einstein-Str. 24, HS1

