

Donnerstag | 5. April | 15:00 Uhr | Hörsaal 1

- geänderte Anfangszeit -

Prof. Dr. Francesca Calegari

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Realtime tracking of the electron dynamics in molecules

Observing electron dynamics in matter on its natural time scale requires attosecond technology. I will show how isolated attosecond pulses can be used in combination with phase-stable infrared/ ultraviolet pulses to track ultrafast charge dynamics in bio-relevant molecules such as aromatic amino acids. These scheme can be also used to investigate the ultrafast mechanisms behind the photo stability of our own DNA. Our results open new important perspectives for a future understanding of the role of the electronic motion in the photochemistry and photobiology of complex molecules.

Einlader: Prof. Fennel

