

Attosecond pump-probe photoelectron spectroscopy of molecules

(Scientific Lecture track)

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Abstract: *The results of attosecond pump-probe theoretical simulations in which several molecules are ionized with a single attosecond pulse (or a train of attosecond pulses) and are subsequently probed by one or several infrared or xuv few-cycle pulses will be presented. Electron dynamics in the photo-excited molecule or remaining molecular ion is revealed by varying the pump-probe delay with attosecond time resolution.*

Bio: His research focuses on the interaction of laser light with atoms and molecules, and the properties of new materials and nanoobjects. In 2000, he was awarded the National Research Prize Rey Juan Carlos I, in 2010, the prize of the Spanish Royal Society of Chemistry in Chemical Physics, in 2011, the Advanced Grant from the European Research Council XCHEM, and in 2017 the Prize Rey Jaime I in Basic Research.