European XFEL Science Seminar

Tuesday, 2nd June 2020, 13:00
Video conference, via Zoom

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Attosecond pulses by high-order harmonic generation in gases and attosecond spectroscopy

Since the beginning of the millennium, physicists know how to generate pulses of light of attosecond duration (1 as= 10-18 s), thus gaining access to this incredibly short time scale. A new physics is opening up, that of the ultrafast dynamics of electrons in matter. This presentation will describe how attosecond pulses are generated when intense laser pulses interact with atomic gases, and what are their characteristics. We will then show how these pulses can be used to investigate fast electron dynamics in atomic photoionization.

Host: Robert Cerley

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