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

IRTG-Seminar

Prof. Dr. Kenichi L. Ishikawa

Graduate School of Engineering; University of Tokyo

"Two-photon ionization of atoms and its coherent control by extreme-ultraviolet free-electron laser pulses"

The advance of new femtosecond pulse sources in the extreme ultraviolet (XUV) range based on free-electron lasers and high-harmonic generation has given new impetus to investigations of nonlinear processes, photoionization, electron correlation, and coherent control at XUV photon energies. In photoelectron spectroscopy, detailed information about the underlying processes can be obtained not only from the spectrum but also, even better, from photoelectron angular distributions. In this talk, we report our recent theoretical work on these topics as well as the related experiments with He and Ne done (and to be done) at SCSS (Japan) and FERMI (Italy) free-electron lasers.

Thursday, March 29, 2018, 11:00 a.m., HS II,
Physics high rise, Hermann-Herder-Str. 3

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