

**ATTOSECOND AND XUV SPECTROSCOPY: ULTRAFAST  
DYNAMICS AND SPECTROSCOPY**

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**OSA | Probing photoionization dynamics by high-spectral-resolution attosecond spectroscopy**

Request PDF on ResearchGate | On Mar 7, , Franck Lépine and others published Attosecond and XUV Physics: Ultrafast Dynamics and Spectroscopy.

**Electron Dynamics in Solids Studied by Attosecond Extreme Ultraviolet Spectroscopy**

This chapter contains sections titled: Introduction. The Emergence of Attosecond Science. Applications of Attosecond Laser Pulses. Ultrafast.

Attosecond and XUV Spectroscopy: Ultrafast Dynamics and Spectroscopy, Thomas Schultz, Marc Vrakking - This book provides a.

Dressed bound states for attosecond dynamics in strong laser fields. V.S. Yakovlev Time-resolved high-harmonic spectroscopy of valence electron dynamics. Peter M. Slow and fast multi-photon ionization of clusters in strong XUV and X-ray pulses Soft X-ray probes of ultrafast dynamics for heterogeneous catalysis.

We have built a compact and versatile beamline for attosecond spectroscopy. with a variety of detectors for measuring attosecond dynamics in gases and liquids. Difference spectra, obtained by subtracting XUV only from XUV+IR.

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Miranda, J. Neumark, Daniel M. Generating single-spike hard X-ray pulses with nonlinear bunch compression in free-electron lasers.

To demonstrate the single-order harmonic selection by using an indium filter. Chen S, et al. However, the multiple energetically similar valleys complicate understanding of carrier thermalization and population inversion following photoexcitation. In the latter case, please turn on Javascript support in your web browser and reload this page.

Here, we address the need for measuring carrier dynamics more comprehensive agreement between the delay-dependent experimental and time-dependent theoretical results suggests that the experimentally observed delays between diffraction orders originate in real-time differences in the temporal dynamics of higher-order signal generation: different diffraction orders are formed at different times during the nonlinear interaction.

