

NONLINEAR PROCESSES IN ATOMIC PHOTOIONIZATION

MICHAEL MEYER

European XFEL,
Hamburg

Photoionization of atoms is a sound basis for proving novel scientific approaches. Not only the new intense XUV FELs can be characterized, but also new physical phenomena are demonstrated. By exploring dichroic phenomena, distinct information on symmetry properties of ionized or excited electrons in intense optical fields can be obtained. Non-linear processes highlight the importance of collective behavior in complex systems, in particular for the description of the Xenon 4d giant resonance.

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