Institutskolloquium

Am Mittwoch, **10. Januar 2007, 16:00 Uhr** spricht:

Prof. Dr. Joachim Burgdörfer

Institute for Theoretical Physics, Vienna University of Technology

Über

"Atomic Dynamics on the Attosecond Scale"

Advances in ultrashort-pulse technology have made it possible to generate electromagnetic pulses with a duration as short as few hundred attoseconds approaching the orbital period of a classical atomic electron. This advance holds the promise to map out electronic dynamics inside atoms in real time. It poses a new challenge to theory to identify observables and novel information that can be accessed and mapped out by attosecond pulses. To the provocative question, what are attosecond pulses good for, I will give some preliminary answers with the help of a few examples including time-resolved atomic resonances and double ionization of helium.

Ort: **Max-Born-Saal,**
MBI, Max-Born-Str. 2a

Interessenten sind herzlich eingeladen.

Prof. Dr. W. Sandner

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