
Seminar

Electron dynamics in ionization from intense laser pulses: from the Angstrom to the nanometer scales

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Intense laser fields interacting with matter inevitably leads to ionization. The dynamics of the quasi-free electrons in the combined fields of the laser and the Coulomb field of the residual ion lead to intriguing phenomena.

In the first part of my talk, I shall illustrate how strong field physical phenomena can possibly offer a 'holographic' imaging technique of atoms (the Angstrom scale). From here I will transition to new insights we have gleaned on the dynamics of ionized electrons from nanometric crystals.

Finally, a quick look into future experiments, proposed at TIFR-H.

Thursday, Apr 17th 2014

4:00 PM (Tea/Coffee at 3:30 PM)

Seminar Hall, TCIS