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PHS :

Dated: 25.10.2018

DEPARTMENT SEMINAR NOTICE

SPEAKER: Prof. Jurgen Bosse
Fachbereich Physik Freie Universit~ at Berlin
Berlin, Germany

TITLE: Dipole susceptibility relating optical potential and
Photon-scattering rate

DATE & DAY: 5 November 2018, Monday

VENUE: Seminar Hall

TIME: 4.00 P.M.

Abstract:

An atom, which is irradiated by two head-on laser beams of equal frequency, will be exposed to an oscillating electric field resulting from superposition of the two linearly-polarized plane-wave electric fields of wave vector k and $-k$ associated with the light beams. Applying linear-response theory, it is demonstrated how dipole susceptibility relates optical dipole potential (ac-Stark effect) and photon scattering rate.

About the Speaker:

Prof. Jurgen Bosse, Fachbereich Physik Freie Universit~ at Berlin, Germany is a theoretical Condensed Matter physicist with interests in dynamical properties of quantum fluids, glass transitions, Bose-Einstein condensation: current correlations of trapped low temperature gases. He held visiting professor positions at various Institutions, MIT, U.S.A., Kyoto University, Japan; Panjab University, Chandigarh; IIT Roorkee etc.

All interested are cordially invited to attend.

Chairperson