NITheP cordially invites you to a seminar by:

Dr. V. Semin  
*University of KwaZulu-Natal, Westville Campus*

Date: Tuesday, 17\textsuperscript{th} April 2012  
Time: 14:15 – 15:15  
Venue: NITheP Seminar Room, H-Block, 3\textsuperscript{rd} Floor

**Title:** Spectral properties of atoms in external classical electromagnetic fields.

**Abstract:**

We study the resonance fluorescence of atoms in external laser fields at finite temperatures. The influence of the stochastic part of the laser field is taken into account. We consider two cases, a single atom and two interacting atoms. In both cases an explicit form of the reduced density matrix and emission spectra is found.

*Tea/coffee & biscuits will be served after the talk*