

## Area Seminar

Title	Phase coherence in finite temperature Bose-Einstein condensates
Date and Time	20/06/2013 16:00:00
Speaker	Dr. Sandeep Gautam
	IISc, Bangalore
Area	Theoretical Physics
Venue	Room No. 469
Abstract	We study the Bose-Einstein condensates (BECs) at non-zero temperatures using stochastic Gross-Pitaevskii equation (SGPE). This is a Langevin equation which takes the form of non-linear Schrodinger equation with additional noise and damping terms. The use of the SGPE to study both the scalar and spinor BECs at finite temperatures will be discussed in the talk. I will discuss the effect of anharmonicity on the phase coherence of quasi one-dimensional condensates.