

### Area Seminar

Title	Rayleigh Taylor Instability in anisotropic binary Bose-Einstein Condensates
Date and Time	24/05/2012 11:30:00
Speaker	Arko Roy
Area	Theoretical Physics
Venue	Room No. 469
Abstract	<p>The two species Bose-Einstein condensate(TBEC) is an excellent candidate to explore non-linear phenomena in superfluids. The remarkable feature of TBEC is the phase-separation, which is non-existent in single species BEC. In this talk, I will discuss about the development of interfacial instability in TBECs, namely, Rayleigh-Taylor instability(RTI). One can initiate and examine RTI in TBEC by changing the intraspecies interaction. The subsequent deformation of the interface into various patterns is an observable signature of RTI. On changing the anisotropy of the trapping potential, RTI can also be inhibited.</p>