

Department of Theoretical Physics

Free Meson Seminar

<i>Speaker</i>	:	Sudhir Kumar Gupta (HRI, Allahabad)
<i>Topic</i>	:	Supersymmetric Signals with Long Lived Charged Tracks
<i>Day, Date & Time</i>	:	Thursday, December 13, 2007 at 2:30 p.m.
<i>Place</i>	:	AG 69

Abstract

If neutrinos have Dirac masses, then the supersymmetric standard model may be extended by right-chiral neutrino sneutrinos. This yields the possibility of having right-chiral sneutrinos as the lightest supersymmetric particle (LSP) in some region of supersymmetric parameter space, part of which was disallowed by charged LSP search. Under supergravity framework, I will review the collider consequences of scenarios with different charged NLSPs (and the right sneutrino) which are long-lived and decay outside the detector because of the smallness of the neutrino Yukawa coupling.

(Amol Dighe)