Area Seminar

Title	Status of two popular models of supersymmetry with and without seesaw
Date and Time	04/04/2013 16:00:00
Speaker	Dr. Ketan Patel Tata Institute of Fundamental Research
Area	Theoretical Physics
Venue	Room No. 469
Abstract	The results of updated analysis will be presented for two highly-constrained models of supersymmetry -- the constrained minimal supersymmetric standard model (cMSSM) and the non-universal Higgs mass model (NUHM) -- in the light of the recent discovery of Higgs boson and updated results on the several flavour physics observables. It turns out that these models can still survive and predict a light stop with mass < 1.5 TeV. I will also report on the status of the extended versions of cMSSM and NUHM models which accommodate seesaw mechanisms. The recent measurement of the reactor angle and new MEG limit on ? ? e ? provide powerful constraints on these class of models. The potential of the current and future experimental searches in constraining the supersymmetric parameter space will also be discussed.