

Area Seminar

Title	Invisible decays of the lightest Higgs boson in supersymmetric models
Date and Time	28/11/2013 16:00:00
Speaker	Dr. Monalisa Patra
Area	Center for High Energy Physics, IISc. Bangalore
Venue	Theoretical Physics
	Room no. 469
Abstract	<p>In various supersymmetric models the lightest Higgs scalar can decay invisibly consistent with the constraints on the 126 GeV state discovered at the CERN LHC. I will briefly state the status of the invisible decays in the light of recent LHC data on SUSY and Higgs. ♦ Then I will mainly focus on the implications of these observations for the neutralino sector ♦ in the minimal supersymmetric standard model (MSSM), as well its extension containing an additional chiral singlet ♦ superfield, the so-called next-to-minimal or nonminimal supersymmetric standard model~(NMSSM), with both universal as well as ♦ nonuniversal gaugino masses at the grand unified scale.</p>