

## Area Seminar

Title SUSY Dark Matter in the light of cosmic ray experiments.

Date and Time 13/07/2010 16:00:00

Speaker Soumya Rao

PRL, Ahmedabad

Area Theoretical Physics

Venue Room no. 469

Abstract We study a supersymmetric model for Dark Matter (DM) which explains the PAMELA positron and antiproton fluxes. We consider Sommerfeld enhancement to be the source for the boost factor required in the cross section to explain the PAMELA result. We also consider the possibility of obtaining the correct relic density using a Sommerfeld enhancement factor, thus having a consistent theory which obeys constraints from relic density as well as indirect detection of DM.