

Area Seminar

Title	Exotic Nuclei: Large-scale shell model calculations.
Date and Time	18/02/2010 16:00:00
Speaker	Dr. Praveen C Srivastav Professor Physical Research Laboratory, Ahmedabad
Area	Theoretical Physics
Venue	Room No. 469
Abstract	The neutron-rich nuclei in the fp and fpg shell region (Fe to Zn nuclei) are at the focus of attention of nuclear physics community at present-- thanks to Radioactive Ion Beam facilities for exploring this region widely. Unstable nuclei in this region exhibit many new phenomena such as melting of existing magic numbers and appearance of new ones, softening of core at N=28, interplay of collective and single particle properties etc. In this seminar, I am going to present our results of modern large scale shell model calculations for these two regions.