

Frontiers in Gamma Ray Spectroscopy

FIG18

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An overview of recent experiments at VECC-INGA array

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Content :

Recently a number of experiments were performed at VECC-INGA array with low energy (28-40 MeV) alpha beam. The array consists of six to seven Compton suppressed Clovers and one LEPS along with digital data acquisition system. The primary physics issues addressed in the present campaign is the study of non-yrast excitation modes in nuclei across $A \approx 190, 160, 130, 110, 70, 40$ mass regions. Different properties like multiphonon and mixed symmetry states in odd-A nuclei in $A=130$ mass region, γ -vibrational band in mass 110 region, investigation of near yrast band structure of transitional nuclei in $A=80$ region etc. were studied. Preliminary results of the analysis of different experiments will be presented.

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