

*Title and Abstract of the talk:*

**Importance of recoil detection for the investigation of high spin states and isomer decay of trans-Lead nuclei**

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High spin states of neutron deficient trans-Lead nuclei are difficult to study because of high background of fission and consequent limit on the population of states with large angular momenta. Because of the availability of state-of-the-art evaporation residue and fragmentation recoil spectrometers and other ancillary detectors, and with the high resolving power of Germanium detector arrays, it is now possible to do a systematic study of the excited states of these nuclei. Various techniques of residue / recoil detection and tagging for gamma spectroscopy of such nuclei will be reviewed in this talk. Some of the recent results obtained for neutron deficient trans-Lead nuclei with the INGA Clover detector array and the scope of further study along this direction will also be presented.