

## Experimental and theoretical correlation of relative yield distribution of neutron-rich fragments produced in $\alpha$ induced fission of $^{232}\text{Th}$

The data for the work has been obtained from the experiment performed at Variable Energy Cyclotron Centre, Kolkata using the INGA facility. A self-supporting  $^{232}\text{Th}$  target of thickness  $\sim 25$  mg/cm<sup>2</sup> was bombarded with 30 MeV  $\alpha$  particles. A total of six Compton suppressed clover Ge detectors and one LEPS detector were used in the array.

By analyzing the two-fold coincidence data, a complete relative isotopic yield distribution of the fission fragments has been extracted. Detailed experimental results followed by the necessary theoretical interpretation would be presented.

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