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Estimation of the parameters of the “neutron belt” of the COMETA setup using experimental data

A study of a new type of nuclear transformation referred to as “collinear cluster tri-partition” (CCT) has been conducted. Reliable identification of this unusual decay channels involves measurement of neutron multiplicity. A new time-of-flight spectrometer called the Compact Multi-cluster Event Trigger Array (COMETA) has been designed to measure neutron multiplicity.

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