

Physics Cases and Instrumentation for the EURISOL-DF, next step towards Eurisol



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The neutron deficient nuclei around the $N=Z$ line are the ideal laboratory to investigate some part of the nuclear interaction like pairing, shell closure and the degrees of freedom related to the nuclear deformation. In addition, some of the $N=Z$ nuclei close to the proton drip-line are waiting point of astrophysical processes and their nuclear structure is relevant in the predictive power of such calculations. In this presentation, nuclear structure of nuclei in the region of the Se-Kr to Pd will be discussed in the framework of the shape coexistence.

Author: CLEMENT, Emmanuel (GANIL)

Presenter: CLEMENT, Emmanuel (GANIL)