

Frontiers in Gamma Ray Spectroscopy

FIG18



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Detector requirements and simulation for HISPEC/DESPEC experiments at Super-FRS

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Content :

The HISPEC/DESPEC experiments will explore the problems related to nuclear structure, reaction and astrophysics far from the valley of stability using γ -ray spectroscopy techniques. The experiments will be carried out after successful production, separation, and selection of these exotic nuclei at Super-FRS of FAIR. Based on the physics requirement various tracking and identification detectors will be required at the focal planes of Low Energy Branch (LEB) relevant for H/D experiments. Simulations have been carried out for specification of the H/D tracking detectors as well as arrays planned for γ -ray spectroscopy. The physics cases, related detector development and some simulation results related to H/D experiment will be discussed.

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