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Conceptual design of the high-resolution DESPEC Ge Array Spectrometer (DEGAS)

Tuesday, 11 November 2014 09:00 (25 minutes)

The DESPEC (Decay SPECtroscopy) experiment, which is part of the NUSTAR programme (NU- clear Structure, Astrophysics and Reactions) at FAIR (Facility for Antiproton and Ion Research) in GSI, will be devoted to investigate nuclear structure by means of beta decay and isomeric decay. It consists of an implantation detector (AIDA), a high-resolution Ge array and a neutron detector (MONSTER).
In the talk, the results of Monte Carlo simulations for the conceptual design of the high-resolution Ge array (DEGAS) will be presented. The simulations show how the best approach for a system with good performances is obtained coupling the AGATA type triple cluster detectors with EUROBALL cluster detectors in a compact geometry around the implantation plane.

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