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Methodology development for analysis of in-beam AGATA data

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The AGATA (Advanced Gamma Ray Tracking Array) physics campaign commenced in February 2010 and there is an emphasis on effective methodologies for the analysis of in-beam data. In order to realise the AGATA demonstrator a number of commissioning experiments have been performed. Analysis of a commissioning experiment using two AGATA triple clusters coupled to ancillary detectors will be presented here. The experiment was performed at LNL, Legnaro, in September 2009, the reaction was 110Pd (32S,4n) 138Sm at 135MeV. During the commissioning phase the user can extract raw pulse-shape data, pulse processed data or tracked data. This is required to fully calibrate the processing, essential for a successful AGATA physics campaign. Here preliminary analysis of the in-beam data will be presented, along with an overview of the methodology involved. As the ultimate aim of the work is to investigate the linear polarisation sensitivity of the AGATA device, the methodology involved here will also be discussed.

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