

## Analysis techniques and results from AIDA at DESPEC at GSI

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AIDA (The Advanced Implantation Detector Array) has been employed at the DESPEC (DEcay SPECTroscopy) experiments at GSI since 2019 as the key detector and active stopper, measuring both the implants (ca. 1-10 GeV) and the subsequent decays (ca. 200-1000 keV), exploiting advanced electronics to cover the high dynamic range, and high pixilation to allow implantation rates of approximately 1 kHz to measure half-lives of seconds. New DAQ and analysis techniques have been developed to analyse the complex triggerless data from AIDA and to combine it with other DESPEC detectors (such as gamma-ray detectors) and the FRS (FRagment Separator) which provides the secondary beams, using the White Rabbit timing system to correlate data. Likewise techniques for correlating the implants to their subsequent decays (over many seconds and thousands of events later). This talk will discuss the techniques development and some of the results so far.

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**Clasificación de la sesión :** Session 8