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Pulse shape analysis in highly segmented Silicon detectors with WaveCatcher

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The GASPARD-GRIT (Granularity Resolution Identification Transparency) international project is aiming at developing a four pi Silicon array to be coupled with the new generation of gamma arrays, like AGATA and PARIS. Constraints on compactness and transparency to gamma make it very challenging. In particular, new techniques based on pulse shape analysis (PSA) have been implemented in order to identify the light particles. Digital electronics is being developed by the collaboration in order to fit these requirements.

In this talk, I will introduce the project aims and show the detectors and electronics designs. I will also present the first in-beam results for the trapezoidal highly segmented Silicon detector of GRIT coupled with the first version of the front-end electronics. The effect of capacitance on the discrimination of light particle will be presented.

Orateur: GRASSI, Laura (CNRS / IPNO)

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