



Contribution ID: 63

Type: **not specified**

New Silicon arrays for reaction studies at future facilities

Wednesday, 29 June 2011 10:15 (25 minutes)

In view of new generation facilities such as SPIRAL2 and FAIR, a new instrumentation has to be developed in order to perform reaction studies in optimum conditions. For this purpose, the GASPARD and HYDE projects aim to combine large solid-angle, high granularity Silicon Stripped detector arrays with the forthcoming major gamma arrays as AGATA or PARIS. The use of Digital electronics is foreseen in order to implement Pulse shape analysis techniques for improving particle identification. A good transparency to low energy gamma-rays is mandatory. While making use of pad detectors, the TRACE Silicon array is pursuing similar technical objectives. After a short review of some physics cases that are envisioned with such detectors, I will present their status and perspectives.

Summary

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Session Classification: Ancillaries