Commissioning of LYCCA - a HISPEC-device*

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The Lund-York-Cologne Calorimeter Array LYCCA will be employed for future PRESPEC and HISPEC γ-ray spectroscopy experiments at the GSI/FAIR accelerator facility. Reaction product identification after a secondary target at the focal plan of the FRS/SUPER-FRS is based on a TOF-ΔE-E measurement.

The modular array will comprise for the individual telescope module a 32x32 double-sided Si strip detectors and 9 CsI scintillators. Plastic or diamond detectors are used for TOF measurement.

Several in-beam test experiments were performed first with low energetic protons at 18 MeV and second with a secondary fragmentation beam of ions around ^{48}Ca with an energy of 600 MeV/u. The presentation summarizes the results of these LYCCA commissioning experiments.

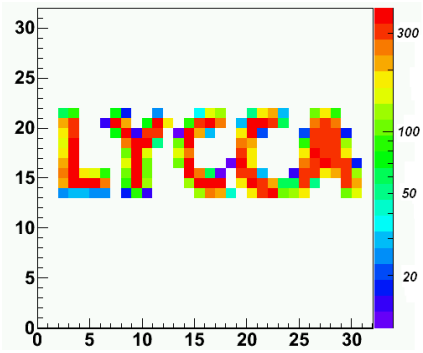

Figure 1: Hit pattern of a LYCCA-DSSD through a mask.

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