Contribution ID: **28**   Type: **Poster**

FAZIA DATA ACQUISITION: STATUS, DESIGN AND CONCEPT

Thursday 24 May 2012 13:30 (4h 45m)

The FAZIA project groups together several institutions in Nuclear Physics, which are working in the domain of heavy-ion induced reactions around and below the Fermi energy. The aim of the project is to build a 4Pi array for charged particles, with high granularity and good energy resolution, with A and Z identification capability over the widest possible range.

It will use the up-to-date techniques concerning detection, signal processing and data flow, with full digital electronics. The FAZIA data acquisition system introduces various issues about high data flow bandwith (~600 MB/s) and design of nested data event format (up to five level).

In this poster DAQ design and architecture will be described focusing on event data model, software trigger and NARVAL, a novel event transport framework. Overall benchmarks and first results will be also discussed.

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Session Classification: Poster Session

Track Classification: Event Processing (track 2)