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FAZIA FRONT-END ELECTRONICS, GLOBAL SYNCHRONIZATION AND TRIGGER DESIGN

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FAZIA stands for the Four Pi A and Z Identification Array. This is a project which aims at building a new 4pi particle detector for charged particles. It will operate in the domain of heavy-ion induced reactions around the Fermi energy. It puts together several international institutions in Nuclear Physics.

It is planned to be operating with both stable and radioactive nuclear beams. A large effort on research and development is currently made, especially on digital electronics and pulse shape analysis, in order to improve the detection capabilities.

This contribution will describe electronic layout from detector signal conversion to data transport through optical fiber. System synchronization for "time-of-flight" measurement of particles, trigger development and overall tests will be also discussed.

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