

Integration of the GET electronics for the CHIMERA and FARCOS devices

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A new front-end based on digital GET electronics has been adopted for the readout of the CsI(Tl) detectors of the CHIMERA 4π multi-detector and for the new modular Femtoscopy Array for Correlation and Spectroscopy (FARCOS). The integration of this system has required the development of a new first stage front-end for FARCOS, based on CMOS new pre-amplifiers for both DSSSD Silicon and CsI(Tl) detector, integrated in a single and compact ASIC board, and the design of a new dual-gain module to fit with the wide dynamical energy ranges expected for the CHIMERA CsI(Tl) and FARCOS Silicon detectors. A new project for a detector array for neutrons has also been started. With this purpose the GET electronics has been used to test the response of a plastic EJ299-33 scintillation to neutrons and light charged particles. Recent results from experimental tests and in-beam experiments by using the coupled GET+CHIMERA data acquisition will be presented

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