

Abstract Submitted
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A CsI detector array for NDTGamma test measurements¹ DI-ANA SAHIBNAZAROVA, University of Kentucky — The goal of the NDTGamma experiment is to measure the directional asymmetry in gamma-ray emission from the reaction $n + D \rightarrow T + \gamma$ (6.2 MeV). A 4x4 array of recycled CsI scintillators and photomultiplier tube (PMT) has been constructed for initial tests at the LANSCE FP12 beamline. Each detector was tested with different PMTs with a Co-60 gamma-ray source to calibrate the detectors and optimize high voltage and digital spectroscopy parameters. The signals were analyzed using both CAEN and low-cost Red Pitaya data acquisition systems. I will present the calibrations results and initial data from the FP12 tests.

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