

Abstract Submitted
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New fission-fragment detector for experiments at DANCE¹ G. RUSEV, A.R. ROMAN, J.K. DAUM, R.K. SPRINGS, E.M. BOND, M. JANDEL, B. BARAMSAI, T.A. BREDEWEG, A. COUTURE, A. FAVALLI, K.D. IANAKIEV, M.L. ILIEV, S. MOSBY, J.L. ULLMANN, C.L. WALKER, LANL — A fission-fragment detector based on thin scintillating films has been built to serve as a veto/trigger detector in neutron-induced fission measurements at DANCE. The fissile material is surrounded by scintillating films providing a 4π detection of the fission fragments. The scintillation events caused by the fission fragment interactions in the films are registered with silicon photomultipliers. Design of the detector and test measurements are described.

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