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Neutron Induced Fission Measurements of 242m Am at DANCE¹ A. CHYZH, C.Y. WU, R.A. MACRI, LLNL, U. AGVAANLUSAN, W.E. PARKER, P.A. WILK, J.A. BECKER, LLNL, M. JANDEL, T.A. BREDEWEG, M.M. FOWLER, E.M. BOND, M.B. CHADWICK, R.R. CLEMENT, A. COUTURE, J.M. O'DONNELL, R.C. HAIGHT, A.L. KEKSIS, LANL, R. REIFARTH, R.S. RUNDBERG, J.L. ULLMANN, D. VIEIRA, J.B. WILHELMY, J.M. WOUTERS, LANL, DANCE COLLABORATION — Neutron capture and fission reactions on actinieds often present challenges in measuring each of the reaction. Fission tagging detector used along with the Detector for Advanced Neutron Capture Experiments (DANCE) provides a way to measure (n, f) and (n, γ) reactions simultaneously. DANCE was used to measure 242m Am(n, f) reaction along with a custom made fission-tagging parallel plate avalanche counter (PPAC). The results on fission related γ -ray multiplicity distribution, the 242m Am(n, f) cross section, and the average γ -ray energy distribution are presented.

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