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Updates for Gadolinium neutron capture measurements at DANCE¹ DUGERSUREN DASHDORJ, G.E. MITCHELL, B. BARAMSAI, R. CHANKOVA, A. CHYZH, C. WALKER, North Carolina State University/TUNL, U. AGVAANLUVSAN, J.A. BECKER, W. PARKER, C.Y. WU, Lawrence Livermore National Laboratory, T. BREDEWEG, A. COUTURE, R. HAIGHT, M. JANDEL, J. O'DONNELL, R. RUNDBERG, J. WOUTERS, J. ULLMANN, D. VIEIRA, Los Alamos National Laboratory, F. BECVAR, M. KRTICKA, Charles Univ. Prague — Neutron capture reactions for several isotopes of Gadolinium have been measured at DANCE array in Los Alamos Neutron Science Center. Progress on the analysis is discussed. The detector response function of DANCE array is presented in connection with the statistical gamma-ray decay cascade simulation. In the region of separated neutron resonances, the statistical gamma-ray decay cascade is simulated using the DICEBOX code. Various models for the photon strength function and level density are used as input. The output of simulations is compared with DANCE data.

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