

Abstract Submitted  
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**Cross-section Measurements of  $^{11}\text{B}(n, n'\gamma)$** <sup>1</sup> M.S. JOHNSON, J.A. BECKER, L.A. BERNSTEIN, J.R. COOPER<sup>2</sup>, P.E. GARRETT<sup>3</sup>, D.P. MCNABB, W. YOUNES, LLNL, Livermore, CA 94550, M. DEVLIN, N. FOTIADES, T.S. HILL, R.O. NELSON, LANSCE-NS, LANL, Los Alamos, NM 87545 — Excitation of high-energy states in  $^{11}\text{B}$  via inelastic neutron scattering is important to nuclear reaction studies. Measurements of the above reaction were conducted at LANL at the LANSCE facility. A 4.5 *mm* thick target of  $^{11}\text{B}$  was bombarded with a continuum energy-spectrum of neutrons produced from a spallation source at the LANSCE facility at LANL. High-energy gamma-rays were measured using HPGe detectors in the GEANIE array. The neutron energies were determined by the time-of-flight technique. We will present and discuss results for the cross-section measurements of  $^{11}\text{B}(n, n'\gamma)$ . We will compare and contrast the results with previous measurements.

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