

Abstract Submitted  
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**TIGRESS—The TRIUMF-ISAC Gamma-Ray Escape-Suppressed Spectrometer** PAUL GARRETT, C. ANDREOIU, D. BANDYOPADHYAY, P. FINLAY, G.F. GRINYER, B. HYLAND, A.A. PHILLIPS, M.A. SCHUMAKER, C.E. SVENSSON, University of Guelph, A.A. ANDREYEV, G.C. BALL, R.S. CHAKRAWARTHY, H. COWAN, G. HACKMAN, A.C. MORTON, C.J. PEARSON, M.B. SMITH, TRIUMF, R.A.E. AUSTIN, Saint Mary's University, A.J. BOSTON, H.C. SCRAGGS, University of Liverpool, T.E. DRAKE, University of Toronto, J.P. MARTIN, Université de Montréal, F. SARAZIN, Colorado School of Mines, J.C. WADDINGTON, L.M. WATTERS, McMaster University — TIGRESS is a next generation  $\gamma$ -ray spectrometer designed to be used at the TRIUMF radioactive beam facilities ISAC and ISAC-II. It will consist of 12 clover-geometry HPGe detectors that are suppressed with BGO-CsI anti-Compton shields. The outer contacts of each crystal is 8-fold segmented, including 2 longitudinal segments. The  $\gamma$ -ray interaction location is determined through analysis of pulse waveforms from the 32 outer contacts. Detailed coincidence scans of the prototype detector deduced a mean position sensitivity of 0.44 mm for single-interactions. Delivery of the production modules, with a slightly modified segmentation scheme, has commenced, and an in-beam test of the detector performance is currently scheduled for late July. Results of the characterization of the new production detectors, including a preliminary analysis of the ability to determine interaction locations in-beam, along with the performance of the suppression shield, will be presented.

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