

Abstract Submitted  
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**DESCANT - Testing and Commissioning** VINZENZ BILDSTEIN, P.E. GARRETT, D. BANDYOPADHAY, J. BANGAY, L. BIANCO, G. DEMAND, B. HADINIA, K.G. LEACH, C. SUMITHRARACHCHI, J. TURKO, J. WONG, University of Guelph, S.F. ASHLEY, B.P. CRIDER, M.T. MCELLISTREM, E.E. PETERS, F.M. PRADOS-ESTÉVEZ, S.W. YATES, University of Kentucky, J.R. VANHOY, United States Naval Academy, G.C. BALL, D.P. BISHOP, A.B. GARNSWORTHY, G. HACKMAN, C.J. PEARSON, B. SHAW, TRIUMF, F. SARAZIN, Colorado School of Mines — The DESCANT array at TRIUMF is designed to detect neutrons from RIB experiments. DESCANT is composed of 70 close-packed deuterated organic liquid scintillators coupled to digital fast read-out ADC modules. This configuration permits online pulse-shape discrimination between neutron and  $\gamma$ -ray events. A prototype detector was tested with monoenergetic neutrons at the University of Kentucky Accelerator Laboratory. The data from these tests was compared to Geant4 simulations. A first commissioning experiment of the full array, using the decay of  $^{145-146}\text{Cs}$ , was performed in August 2016. The results of the tests and a preliminary analysis of the commissioning experiment will be presented.

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