

Abstract Submitted  
for the DNP08 Meeting of  
The American Physical Society

**Astrophysically Interesting Resonances; Another Approach<sup>1</sup>**

ROBY AUSTIN, Saint Mary's University, DAVID JENKINS, University Of York — R.A.E. Austin, R. Kanungo, A. Campbell, S. Colosimo, S. Reeve Saint Mary's University; D.G. Jenkins, C.Aa.Diget, A. Robinson, University of York, UK; P.J. Woods T. Davinson University of Edinburgh; C.-Y. Wu A. Hurst J.A. Becker Lawrence Livermore National Laboratory; G.C. Ball M. Djongolov G. Hackman A.C. Morton, C. Pearson, S.J. Williams TRIUMF; A.A. Phillips, M. Schumaker, University of Guelph H.Boston, A. Grint, D. Oxley, University of Liverpool; D. Cline, A. Hayes, University of Rochester; We describe a prototype experiment to measure resonances of interest in astrophysical reactions. We use the TIGRESS to detect gamma rays in coincidence with charged particles, inelastically scattered in inverse kinematics. The particles are detected with the Bambino detector modified to a  $\Delta E$ -E silicon telescope spanning 15-40 degrees in the lab.

<sup>1</sup>This work is supported by NSERC, STFC, DOE

Roby Austin  
Saint Mary's University

Date submitted: 01 Jul 2008

Electronic form version 1.4