

Abstract Submitted  
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**Radioactive beam  $g$ -factor measurement of the  $2_1^+$  state of  $^{132}\text{Te}$ .<sup>1</sup>**

N. BENCZER-KOLLER, G. KUMBARTZKI, G. GURDAL, B. KRIEGER, Rutgers, C. GROSS, ORNL, R. HATARIK, P. O'MALLEY, S. PAIN, L. SEGEN, Rutgers, N. STONE, U. Tenn., A.E. STUCHBERY, ANU, C. BAKTASH, D. RADFORD, C.-H. YU, C. BINGHAM, ORNL, M. DANCHEV, R. GRZYWACZ, U. Tenn., R.V.F. JANSSENS, ANL — The magnetic moment of the Coulomb-excited  $2_1^+$  state of  $^{132}\text{Te}$  has been measured by the transient field technique using the radioactive beam at HRIBF. Projectile excitation was induced in a C layer backed by either gadolinium or iron ferromagnetic foils. The de-excitation  $\gamma$  ray was detected in a standard four-Clover Ge detector setup in coincidence with recoil C ions recorded in two forward Si detectors subtending angles  $19^\circ < \theta < 47^\circ$  above and below the beam axis. The viability of the technique has been demonstrated. Results will be presented and discussed.

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