

Abstract Submitted  
for the APR08 Meeting of  
The American Physical Society

**Elemental abundance measurements of Zn, Ga, and Ge from the Cosmic Ray Isotope Spectrometer (CRIS) experiment on the Advanced Composition Explorer (ACE) satellite**<sup>1</sup> W.R. BINNS, Washington University, St. Louis, A.C. CUMMINGS, California Institute of Technology, G.A. DE NOLFO, NASA/GSFC, M.H. ISRAEL, Washington U., R.A. LESKE, R.A. MEWALDT, Caltech, T.T. VON ROSENVINGE, NASA/GSFC, E.C. STONE, Caltech, M.E. WIEDENBECK, JPL — We have measured the elemental abundances of galactic cosmic-ray Zn, Ga, and Ge using the CRIS instrument on the NASA-ACE spacecraft. These ultra-heavy ( $Z>29$ ) nuclei are very rare and require an instrument with a large geometrical factor, such as CRIS possesses, exposed over a long period of time to collect a significant sample. Over the 10+ years since launch in 1997 we have collected  $\sim 250$  nuclei with  $Z>29$ . Abundances for these elements measured over the energy range of  $\sim 150$  to 600 MeV/nucleon will be presented and implications for the nature of the cosmic ray source will be discussed.

<sup>1</sup>Supported by NASA under Grant NAG5-12929.

W.R. Binns  
Washington University, St. Louis

Date submitted: 10 Jan 2008

Electronic form version 1.4