Elemental abundance measurements of Zn, Ga, and Ge from the Cosmic Ray Isotope Spectrometer (CRIS) experiment on the Advanced Composition Explorer (ACE) satellite\(^1\) 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 ~250 nuclei with Z>29. Abundances for these elements measured over the energy range of ~150 to 600 MeV/nucleon will be presented and implications for the nature of the cosmic ray source will be discussed.

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