

Abstract Submitted  
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**New Measurements of the Isotopic Composition of Galactic Cosmic Ray Elements Cu, Zn, Ga, Ge, As and Se**<sup>1</sup> W.R. BINNS, Washington University, St. Louis, E.R. CHRISTIAN, NASA/Goddard Space Flight Center, Greenbelt, MD, A.C. CUMMINGS, California Institute of Technology, Pasadena, CA, G.A. DE NOLFO, NASA/Goddard Space Flight Center, Greenbelt, MD, M.H. ISRAEL, Washington University, St. Louis, R.A. LESKE, R.A. MEWALDT, E.C. STONE, California Institute of Technology, Pasadena, CA, T.T. VON ROSENVINGE, NASA/Goddard Space Flight Center, Greenbelt, MD, M.E. WIEDENBECK, Jet Propulsion Laboratory, California Institute of Technology, Pasadena, CA — The Cosmic Ray Isotope Spectrometer (CRIS) instrument on the NASA Advanced Composition Explorer (ACE) satellite was launched in August, 1997, and has collected data over this ~22 year period of time. The large geometrical factor of the instrument, combined with the very long exposure time, has enabled us to measure the cosmic ray isotopic abundances of  $^{31}\text{Ga}$ ,  $^{32}\text{Ge}$ ,  $^{33}\text{As}$ , and  $^{34}\text{Se}$  for the first time, and to greatly improve earlier published measurements for  $^{29}\text{Cu}$  and  $^{30}\text{Zn}$ . We have collected a total of more than 1100 nuclei with  $Z=30$  or greater, with energies in the range of ~150 to 600 MeV/nucleon. In this paper we report preliminary isotopic cosmic-ray composition measurements and compare the observed isotopic fractions with those in the solar system.

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