


Abstract Submitted  
for the 1994 April Meeting of the  
American Physical Society  
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Suggested title of session  
in which paper should be placed  
Cosmic Rays

The Measured Performance of a High-Pressure Gas Ionization Chamber Instrument for Cosmic Ray Isotope Studies.  
B. MILLIKEN, M. WIEDENBECK, JPL, The "Tracking Heavy Isotope Spectrometer Telescope for Low Energies" (THISTLE) is a large ( $\sim 0.5 \text{ m}^2$  ster), multi-element high pressure gas ionization chamber designed to identify the charge and mass of heavy cosmic rays based on measurements of energy loss, total energy, and trajectory in the detector. A balloon flight of this instrument was carried out from Lynn Lake, Manitoba in August 1993. Data collected during the 11 hours of exposure at a float altitude  $\sim 4$  millibars are being used to assess the performance of the instrument. Preliminary results from these studies will be presented.

Refer Standard Session



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