

COSMIC RAY ENERGETICS AND MASS: CONFIGURATION AND PROGRESS ON CONSTRUCTION AND TESTING

O. Ganel (1), E.S. Seo (1), H.S. Ahn (1), R. Alford (1), S. Beach (2), J.J. Beatty (2), S. Coutu (2), M.A. Duvernois (3), Y.J. Han (4), H.J. Kim (4), K.C. Kim (1), S.K. Kim (4), M.H. Lee (1), S. Minnick (2), S. Nutter (2), I.H. Park (4), S. Swordy (5), J.Z. Wang (1) and J. Wu (1)

(1) Institute for Physical Science and Technology, University of Maryland, College Park, MD 20742, USA; (2) Department of Physics, Penn State University, University Park, PA 16802, USA; (3) School of Physics and Astronomy, University of Minnesota, Minneapolis, MN 55455, USA; (4) Department of Physics, Seoul National University, Seoul, 151-742, Korea; (5) Enrico Fermi Institute and Department of Physics, University of Chicago, Chicago, IL 60637, USA.
opher@glue.umd.edu/Fax +1-301-314-9363

CREAM (Cosmic Ray Energetics And Mass) is an experiment being constructed to study high-energy cosmic rays from 1 TeV to 1 PeV using the new ultra long duration balloon (ULDB) capability under development by NASA. ULDB flights are designed to last from 60 to 100 days each. CREAM will include a sampling tungsten/scintillating-fiber calorimeter, a transition radiation detector and a timing-based charge detector. We will detail the configuration expected to start flying in December 2003, and report on the status of instrument construction and testing, including sub-system environmental tests.