

MOUNTAINTOP CALIBRATION AND BALLOON FLIGHT OF
ANTIPROTON AND ANTIHELIUM SEARCH

Carl. R. Pennypacker, A. Buffington, Phil M. Lubin, and George F. Smoot
Space Sciences Laboratory and Lawrence Berkeley Laboratory, Berkeley, California 94720

Theoretical Experimental Both

The apparatus described in the above paper (OG-) has been calibrated at sea level and mountaintop (about 3000 m). We describe the various processes which have been seen to circumvent the trigger criteria. The efficiency of the apparatus has been calculated for antiprotons and antihelium with a Monte Carlo program. We plan to fly the apparatus by balloon at a residual atmospheric depth of about 15 gm/cm², hopefully before the conference. If the flight is successful, we may be able to report preliminary results.

Coordinates: Antimatter could either be under Nuclear Composition (OG-6) or Isotopes (OG-7).

Mailing Address:

A. Buffington
Lawrence Berkeley Laboratory
Building 50, Room 230
University of California
Berkeley, California 94720