

OBSERVATIONS OF MARKARIAN 421 WITH STACEE

J.A. Hinton (1), L.M. Boone (2), D. Bramel (3), E. Chae (1), C.E. Covault (4), P. Fortin (5), D. Gingrich (6), D.S. Hanna (5), C. Meuller (5), R. Mukherjee (3), K. Ragan (5), R.A. Scalzo (1), D.R. Schuette (7), C.G. Theoret (5), R.A. Ong (7) and D.A. Williams (2)

(1) Enrico Fermi Institute, University of Chicago, Chicago IL 60637 USA, (2) SCIPP, University of California, Santa Cruz CA 95064 USA, (3) Department of Physics and Astronomy, Barnard College and Columbia University, New York NY 10027 USA, (4) Department of Physics, Case Western Reserve University, Cleveland OH 44106 USA, (5) Department of Physics, McGill University, Montreal Quebec H3A 2T8 Canada, (6) Center for Subatomic Research, University of Alberta, Edmonton Alberta T6G 2N5 Canada, (7) Division of Astronomy and Astrophysics, University of California, Los Angeles CA 90095 USA.

Several experiments have reported the detection of high fluxes of TeV gamma-rays from Markarian 421 in early 2001. We describe preliminary results from observations of Markarian 421 during the period February to May 2001 using the Solar Tower Atmospheric Cherenkov Experiment (STACEE). STACEE is sensitive to gamma-rays in the energy range from about 50 to 500 GeV. Our results will be discussed in the context of multi-wavelength observations of Markarian 421 by other experiments during this outburst. The low energy threshold of STACEE should allow us to extend the gamma-ray spectrum of this source, thereby placing additional constraints on emission models during outburst.