Abstract: Overview of the ANITA project

Speaker: K. Liewer
Authors: S. Barwick, D. Besson, J. Beatty, S. Coutu, J. Clem, M. DuVernois, P. Evenson, G. Frichter, P. Gorham, F. Halzen, A. Jacobson, D. Kieda, J. Learned, K. Liewer, S. Lowe, C. Naudet, A. Odian, D. Saltzberg, D. Seckel

The ANITA project is designed to investigate ultra-high energy (>10^17 eV) cosmic ray interactions throughout the universe by detecting the neutrinos created in those interactions. These high energy neutrinos are detectable through their interactions within the Antarctic ice sheet, which ANITA will use as a detector target that effectively converts the neutrino interactions to radio pulses.

This paper will give an overview of the project including the scientific objectives, detection description and mission design.