

Status of the Third Flight of ANITA

Wednesday, September 11, 2013 7:30 PM (2h 30m)

The ANtarctic Impulsive Transient Antenna (ANITA) is a balloon-borne interferometer sensitive to ultra-wideband radiation from neutrinos interacting in ice and cosmic-ray air showers in the 200–1000 MHz range. The third flight of ANITA will achieve improved sensitivity through an upgraded triggering system and larger antenna array enabling the detection of an order of magnitude more ultra-high energy cosmic ray events over the first flight of ANITA and increased background rejection. Additionally, a prototypical drop-down antenna will record the first in-flight observations of cosmic-ray air showers at VHF frequencies. We report on the status of the observatory.

Primary author: WISSEL, Stephanie (UCLA)

Presenter: WISSEL, Stephanie (UCLA)

Session Classification: Poster Session

Track Classification: High-Energy Astrophysics (includes all cosmic ray physics)