

New Techniques in the ANITA-IV Analysis

Friday, 1 June 2018 18:30 (1 hour)

The ANtarctic Impulsive Transient Antenna (ANITA) is a NASA balloon-borne radio (180–1200 MHz) telescope sensitive both to impulsive Askaryan radio emission from ultra-high energy ($> 10^{18}$ eV) neutrino-initiated showers in the Antarctic ice sheet, as well as geomagnetically-induced radio emission from extensive air showers (EAS) initiated by cosmic rays or upward-going tau leptons that are created by tau neutrino interactions in the Earth. The fourth flight of ANITA completed Dec 29, 2016. I will report on the ongoing analysis of ANITA-IV data, with an emphasis on new techniques to reduce backgrounds from anthropogenic radio signals.

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