

ANITA and the Highest Energy Cosmic Rays

The ANITA (ANtarctic Impulsive Transient Antenna) experiment is a balloon-borne, broadband antenna array flown over the Antarctic continent, designed to detect coherent Cherenkov emission from cosmogenic neutrinos. It is also sensitive to radio emission from ultra high energy cosmic rays. The first ANITA payload completed a 35 day flight during the Austral summer of 2006-2007, observing 16 cosmic rays. Detailed Monte Carlo studies have revealed that these cosmic rays have energies of order 10^{19} eV. These cosmic rays comprise the highest energy sample detected in radio.

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