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Measurement of the cosmic rays flux with the ANITAexperiment

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The ANITA experiment consists on an aerostatic balloon flying over Antarctica and carrying a payload with antennas. It was designed to detect the electric field of neutrino-induced showers. However, ANITA has detected the electric field of cosmic ray-induced showers and the ANITA collaboration has used these data to produce the first cosmic ray flux measurement obtained by employing radio as a stand-alone technique. We review the experimental results and its interpretation. We also focus on the simulations and the method used for obtaining the cosmic ray flux.

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