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Astroparticle physics with ARGO-YBJ

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The ARGO-YBJ experiment was installed in the Tibet region of China, 4300 meters above sea level. It run continuously from November 2007 until February 2013, with the goal of observing astronomical gamma-ray sources in the energy range between a few hundred GeV and about 100 TeV, and primary cosmic rays in the energy range between about 1 TeV and a few PeV. The unique feature of the ARGO-YBJ detector was its full-coverage layout of Resistive Plate Chambers on an area of (78 x 74) mˆ2, with a guard ring around and a full area of 11000 mˆ2. The most important results obtained by ARGO-YBJ will be presented, with specific focus on the observation and monitoring of galactic and extragalactic gamma-ray sources and primary light-nuclei spectrum and knee.

Experimental Collaboration

ARGO-YBJ

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