



HEP 2013
Stockholm
18-24 July 2013



Contribution ID: 669

Type: **Talk presentation**

Results in astroparticle physics from the ARGO-YBJ experiment

Thursday, 18 July 2013 18:00 (15 minutes)

The ARGO-YBJ experiment, located in the Tibet region of China at 4300 meters a.s.l., has run uninterruptedly for over 5 years, namely from November 2007 till the beginning of 2013. It was designed to study astronomical gamma-ray sources in the energy range from a few hundred GeV up to about 100 TeV, and cosmic-ray physics in the energy range from about 1 TeV up to few PeV. The full-coverage structure of the ARGO-YBJ detector allowed to lower the energy threshold for air-shower detection with respect to conventional sampling arrays. By using a full-coverage layer of Resistive Plate Chambers ($78 \times 74 \text{ m}^2$), surrounded by a guard ring, with a full area of approximately 11000 m^2 , the ARGO-YBJ experiment obtained important results in gamma-ray astronomy and cosmic-ray astrophysics: the observation of point-like gamma sources, the monitoring of AGN gamma flares, the measurement of the medium-scale cosmic-ray anisotropy and the light-component cosmic-ray spectrum will be presented and discussed.

Primary author: Dr CAMARRI, Paolo (University of Roma "Tor Vergata")

Presenter: Dr CAMARRI, Paolo (University of Roma "Tor Vergata")

Session Classification: Astroparticle Physics

Track Classification: Astroparticle Physics