



Contribution ID: 22

Type: **Invited**

Results from the GAMMA experiment on Mt. Aragats - improved data

Wednesday, 30 June 2010 11:35 (30 minutes)

Status of the GAMMA experiment is presented. The all-particle energy spectrum of the primary cosmic rays at energies 1 – 300 PeV has been obtained on the basis of the GAMMA experimental improved data. The irregularities of the energy spectrum above the knee are discussed in comparison with other experiments. An upper limit of Galactic diffuse gamma ray flux measured with the GAMMA experiment at energy about 175 TeV is also discussed.

Primary author: Dr MARTIROSOV, Romen (Yerevan Physics Institute, Yerevan, Armenia)

Co-authors: Dr GARYAKA, Alexandr (Yerevan Physics Institute, Yerevan, Armenia); Prof. ERLYKIN, Anatoly (Lebedev Physical Institute, Moscow, Russia); Prof. PROCUREUR, Jacques (Centre d'Etudes Nucleaires de Bordeaux-Gradignan, Gradignan, France); Prof. JONES, Lawrence (Department of Physics, University of Michigan, USA); Mrs NIKOLSKAYA, Natalya (Lebedev Physical Institute, Moscow, Russia); Prof. TER-ANTONYAN, Samvel (Department of Physics, Southern University, Baton Rouge, USA); Dr GALLANT, Yves (LPTA, Universite Montpellier II, CNRS/IN2P3, Montpellier, France)

Presenter: Dr MARTIROSOV, Romen (Yerevan Physics Institute, Yerevan, Armenia)

Session Classification: Extensive air shower experiments

Track Classification: Extensive air shower experiments