



Contribution ID : 856

Type : **Poster**

Analysis of the TAIGA-HiSCORE data

Monday, 5 October 2020 19:45 (15)

TAIGA-HiSCORE is an extensive air shower array of 121 Cherenkov detectors spread over an area of 1 km^2 . It is designed to detect cosmic rays with energies from 50 TeV to 1000 PeV. Also TAIGA-HiSCORE is planned to use for gamma-ray astronomy in cooperation with the other setups of the TAIGA observatory. This work is dedicated to the analysis of the TAIGA-HiSCORE single-mode data. We consider a possibility to detect gamma-ray point source with excess of events from the source direction. For this purpose we propose a method for estimating the signal significance. It takes into account the angular acceptance of the TAIGA-HiSCORE setup. The method is tested on the Monte-Carlo toy model.

Primary author(s) : SAMOLIGA, Vladimir (Irkutsk State University)

Presenter(s) : SAMOLIGA, Vladimir (Irkutsk State University)

Session Classification : Poster session

Track Classification : Astroparticle physics