

Creation of the "Carpet-3" multipurpose shower array for search of diffuse gamma radiation with energy $E > 100$ TeV

Tuesday, 23 October 2018 16:45 (15)

An experiment for measuring the flux of cosmic gamma rays with energy above 100TeV is currently being prepared at the Baksan Neutrino Observatory of the Institute for Nuclear Research, Russian Academy of Sciences. At present the plastic scintillation counters with a total continuous area of 410m^2 are installed in the muon detector (MD) underground tunnels, and they are totally equipped with electronics. Six modules of shower detectors(out of twenty planned to be installed) have been already placed on the surface of the MD absorber. In each of them are placed on 9 standard plastic scintillation counters with an area of 1m^2 each. These modules are by part ground of "Carpet-3" shower array. It is also placing and arrange of recording apparatus for this array. The calculations are showed that the "Carpet-3" shower array will have the best sensitivity to the flux of primary gamma rays with energy TeV and will be quite competitive in gamma ray astronomy in such energies.

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Session Classification : Facilities and Advanced Detector Technologies

Track Classification : Facilities and advanced detector technologies