



Contribution ID: 250

Type: **Poster**

Tunka-HiSCORE –a new array for multi-TeV gamma-astronomy

Tunka-HiSCORE (HiSCORE –Hundred Square-km Cosmic Origin Explorer) –is a new Cherenkov EAS array for multi –TeV gamma-ray astronomy and CR studies. The array will consist of wide–angle (0.6 ster) optical stations with 150 m distance between individual stations. The array will be constructed in several stages: beginning with a 1 km² array at the first stage up to 100 km² at the last stage.

The first four stations have been installed during 2012 in Tunka Valley (50 km from Southern tip of Lake Baikal) at the site of the Tunka-133 array. We describe the construction of the optical stations and the array DAQ, and present the first results of common operation of the new optical stations with the Tunka-133 array.

quote your primary experiment

Tunka-133

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Track Classification: Astroparticle Detectors