

Cosmic ray study at the Astrophysical Complex TAIGA: results and plans

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TAIGA (Tunka Advanced Instrument for cosmic ray physics and Gamma Astronomy) Astrophysical complex is being developed for studies of gamma rays and charged cosmic rays in the energy range of 10^{13} - 10^{18} eV. The complex is located in the Tunka Valley, about 50 km from Lake Baikal. In this report we present the experiment status and plans for study of high-energy cosmic-ray physics as well as main results reached by wide-angle TAIGA-HiSCORE and Tunka-133 Cherenkov arrays of the Astrophysical complex. Plans to study cosmic rays with other arrays of the complex namely scintillation array Tunka-Grande and new TAIGA-muons array and system of IACT telescopes are discussed too.

Primary author: Dr KUZMICHEV, Leonid (SINP MSU)

Presenter: Dr KUZMICHEV, Leonid (SINP MSU)

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