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Scintillation experiment on the study of cosmic rays and gamma-quanta fluxes in the Tunka Valley

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A scintillation experiment is a part of the TAIGA astrophysical complex located in the Tunka Valley, 50 km from Lake Baikal. It consists of the Tunka-Grande and TAIGA-Muon arrays. Its scientific program is devoted to the study of cosmic rays (CRs) and search for astrophysical gamma rays by detecting charged particles (electrons and muons) of extensive air showers (EASs). We present the current status of the scintillation experiment, methods of EAS and CR parameters reconstruction, the main results obtained by the Tunka-Grande array and our scientific program for the future.

Primary author(s) : IVANOVA, Anna (NSU&ISU); TAIGA COLLABORATION

Presenter(s) : IVANOVA, Anna (NSU&ISU)

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