

The results of the development of the setup of SPHERE-3 for studying the composition of the PCR in the field of 1-1000 PEV. The status of 2025.

The SPHERE-3 setup is destined to register the EAS Cherenkov light, both the direct and the reflected from the snow surface. A set of methods and new approaches in the measurement technique enable substantial progress in the study of the primary cosmic ray composition in the energy range 1-1000 PeV. The present work reveals the current status of the project development and detector performance modeling.

Primary author: CHERNOV, Dmitry (Moscow State University)

Co-authors: BONVECH, Elena (SINP MSU); GALKIN, Vladimir (Moscow State University, Faculty of Physics & Institute of Nuclear Physics); IVANOV, Vladimir (Federal State Budget Educational Institution of Higher Education M.V.Lomonosov Moscow State University, Skobeltsyn Institute of Nuclear Physics); KOLODKIN, Timofey (Federal State Budget Educational Institution of Higher Education M.V.Lomonosov Moscow State University, Skobeltsyn Institute of Nuclear Physics); OVCHARENKO, Natalia (Federal State Budget Educational Institution of Higher Education M.V.Lomonosov Moscow State University, Skobeltsyn Institute of Nuclear Physics); CHERKESOVA, Olga (SINP MSU); PODGRUDKOV, Dmitriy; ZIVA, Maxim; ROGANOVA, Tatyana; ENTINA, Elena

Presenter: CHERNOV, Dmitry (Moscow State University)

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