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PRIMARY COSMIC RAYS ENERGY SPECTRUM BY THE 3 YEARS DATA OF THE TAIGA-HiSCORE ARRAY

The TAIGA-HiSCORE EAS Cherenkov light array with total area of about 1 kmˆ2 has collected data during the 3 seasons of observation (2021 – 2024). Reconstruction of the primary energy with Cherenkov light fluxes at the distances 100 and 200 m from the core with the adequate zenith angle corrections let us obtain the energy spectrum in the range from 300 TeV to 10 PeV. Our spectrum is in extreamely good agreement with the data of HAWC and LHAASO experiments.

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Session Classification: Cosmic rays (nuclei, gammas, neutrinos) of very high energies (> 100 TeV)

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