

## Extensive air showers of highest energies registered at the Yakutsk array

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The article considers showers produced by primary particles with energies  $E_0 \geq 100$  EeV. The showers were registered in the course of continuous long-term observations at the Yakutsk array of extensive air showers. In the present work, the mathematical processing of showers was repeated and the phenomenology of the charged component, muons with threshold  $E_{thr}$ ,  $\approx 1$  GeV and radio emission in the region of highest energies was refined. The characteristics of cosmic rays are analyzed: the energy spectrum and mass composition determined from the Cherenkov, muon components and radio emission in the energy range 50 – 200 EeV.

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