

Capabilities of the GAMMA-400 gamma-ray telescope to detect high energy electron flux up to ~10 TeV from lateral directions.

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At present time the behavior of electron spectrum at energies more than 1 TeV induce significant interest in view of the contradictory results concerning the presence of the cut-off.

GAMMA-400 gamma-ray telescope with lateral size of calorimeter $\sim 43^\circ$ will be able to extend the measurements of electron fluxes up to 20 TeV and to verify the data of previous experiments at several TeV energies. The results of presented simulations provide electron/proton rejection factor at the level of 10^4 . This estimation was obtained using a multivariate analysis based on boosted decision trees (BDTs). This analysis provides the value of the lateral acceptance $\sim 0.1 \text{ m}^2 \text{ sr}$ for each lateral side and for the energies more than 100 GeV.

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