

Performance of the muon track reconstruction in Baikal-GVD neutrino telescope

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The contribution reports on the status of muon reconstruction in Baikal-GVD. An extension of low-energy reconstruction algorithm towards high energies is discussed for single-cluster analysis. Angular resolution and energy measurement precision are measured using high-energy neutrino Monte-Carlo sample. Neutrino candidate identification method using boosted decision tree classifier is presented. A set of candidates is selected in data from April-June 2019. New reconstruction and selection algorithms improve low-energy neutrino detection efficiency by the factor of ~ 2 . An effort to extend data analysis to multi-cluster events and larger time-span is ongoing.