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Ultra-high energy neutrino flux limit from Baikal-GVD

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Baikal-GVD is a cubic-kilometer scale underwater neutrino telescope currently under construction in Lake Baikal. The detector layout is optimized for the measurement of astrophysical neutrinos with energies of ~ 100 TeV and above. Recently, a similar neutrino telescope, KM3NeT, detected a unique, ultra-high energy neutrino event, KM3-230213A. This case proves the possibility of detecting extraterrestrial neutrinos with tremendous energies and allows us to expect to observe similar events at Baikal-GVD. Here we present an upper limit on neutrino flux obtained in Baikal-GVD for the energy range around 100 PeV.

Collaboration(s)

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