

A SEARCH FOR HIGH ENERGY NEUTRINOS WITH BAIKAL NEUTRINO TELESCOPE NT-200

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We present the results of a search for high-energy neutrinos with the Baikal underwater Cherenkov detector NT-200. An upper limit on the diffuse flux of $\nu_e + \bar{\nu}_e$ of $E^2 \Phi_\nu(E) < 1.3 \times 10^{-6} \text{ cm}^{-2} \text{ s}^{-1} \text{ sr}^{-1} \text{ GeV}$ within neutrino energy range $10^4 \div 10^7 \text{ GeV}$ is obtained, assuming $\nu_e : \nu_\mu = 1 : 2$ and an E^{-2} behavior of the neutrino spectrum.