

Expansion Possibilities of the Baikal-GVD Neutrino Telescope

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The Baikal-GVD Neutrino Telescope is a cubic-kilometer scale detector being constructed in Lake Baikal. The achievement by Baikal-GVD of the nominal sensitive volume for high-energy cascade detection of 1 km³ is expected by 2028. Currently, the Baikal collaboration is working on the development of a conceptual project of neutrino telescope in Lake Baikal with a volume about an order of magnitude larger than the volume of Baikal-GVD: the GVD+ project. In this report we discuss the possibilities of the telescope expansion up to 10 km³ scale after completion of the Baikal-GVD deployment.

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