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An expected performance of “Dubna” neutrino telescope for search for high-energy astrophysical neutrinos by detection of high-energy cascades

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Currently the next-generation km³-scale neutrino telescope Baikal-GVD is under construction in Lake Baikal. It will have modular structure and consist of functionally independent sub-arrays – clusters of strings of optical modules. The first cluster of Baikal-GVD christened “Dubna” was deployed and commissioned in April 2015 in Lake Baikal. We discuss the expected performance of the “Dubna” array for detection of secondary cascades generated by the high-energy neutrinos in water.

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