Data processing and analysis for Baikal-GVD

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Baikal-GVD is a deep underwater gigaton-volume neutrino telescope currently under construction in Lake Baikal.

The detector is a spatially distributed lattice of photomultipliers, designed to register Cherenkov radiation from the products of neutrino interactions with the water of the lake.

When the trigger conditions are met, digitized photomultiplier waveforms are sent the shore, allowing for the reconstruction of energy and direction of the neutrino.

We describe a data processing and analysis infrastructure that has been developed for the detector.

Primary author: Mr AVRORIN, Alexander (INR RAS)

Presenter: Mr AVRORIN, Alexander (INR RAS)

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