



Contribution ID: 158

Type: **Sectional**

Data management and processing system for Baikal-GVD

Tuesday 26 September 2017 14:45 (15 minutes)

Baikal-GVD is a gigaton volume underwater neutrino detector located in Lake Baikal. Compared to NT-200+, a previous iteration of the Baikal neutrino observatory, Baikal-GVD represents a leap in complexity and raw data output. Therefore, a new, comprehensive data management infrastructure for transfer and analysis of the experimental data has been established. It includes a two-tier data storage, data quality control and online processing facilities. Experimental data is analyzed with BARS (Baikal Analysis and Reconstruction Software) - a framework, designed specifically for Baikal-GVD, that provides both low level interface for data analysis and a set of high level utilities for common tasks.

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Session Classification: Triggering, Data Acquisition, Control Systems