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DAQ system of Tunka –HiSCORE prototype array

Tuesday, 4 August 2015 16:00 (1 hour)

DAQ and time synchronization system for the Tunka-HiSCORE array has been developed. The system consists of 8-channel optical station board (OSB) for digitization of anode and dynode signals of 4 PMTs of the optical station and synchronization boards (SB) placed in the DAQ center. All boards are designed on the basis of DRS-4 chip and FPGA Xilinx Spartan-6. The OSB and SB boards are connected via single-mode optical fibers. An accuracy of time synchronization is < 1 ns. Time step of digitization may be changed from 0.2 to 1 ns. The dead time of OSB is less than 0.5 ms.

Collaboration

– not specified –

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