

The DAQ system and the operation condition of the RHICf experiment

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The purpose of the RHICf(Relativistic Hadron Ion Collider forward) experiment is the verification of hadronic interaction models, which is necessary to precisely understand air-shower developments induced by high energy cosmic-rays. We measure the forward neutral particles by using a calorimeter detector installed near the STAR detector. The RHICf detector is the LHCf - Arm1 detector brought from CERN, which is composed of scintillator layers, position sensitive layers and tungsten layers.

We measure the forward neutral particles by using a calorimeter detector installed near the STAR detector. The RHICf detector is the LHCf - Arm1 detector brought from CERN, which is composed of scintillator layers, position sensitive layers and tungsten layers. RHICf trigger signals are issued for detection of electromagnetic or hadronic showers induced by photons and neutrons. The trigger condition is set as that dE in any three successive layers are over a certain threshold. The RHICf experiment is going to be cooperated with the STAR experiment. So, we developed the DAQ system to fit the operation condition. In this presentation, the DAQ system and the operation condition are introduced.

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