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Cloud Monitoring using Nitrogen Laser for LHAASO Experiment

*Tuesday, August 4, 2015 4:00 PM (1 hour)***Abstract:**

Atmospheric monitoring is the key for experiments using the air Cherenkov/fluorescence techniques. In particular cloud monitoring is of great importance to evaluate “clearness” of night skies which affects to shower images obtained by the Wide Field of view Cherenkov/Fluorescence Telescope Array(WFCTA). A nitrogen laser has been installed at the ARGO-YBJ site for the cloud monitoring during WFCTA observations. The testing system has been in operation since January 2012. In this paper, we describe the nitrogen laser system and the analysis method of the cloud monitoring data. As a cross check, the star light data also be analyzed.

Collaboration

LHAASO

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