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Ashra Mauna Loa Observatory and Slow Control System

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Abstract content

We will talk about slow control system of Ashra (All-sky Survey High Resolution Air-shower detector) experiment. As the name shows, it is an experiment observing fluorescence and Cherenkov light yielded by cosmic rays, which has very wide FOV (80% of 2π str) and a few arc-min optical resolution. In addition to cosmic ray detection, it is able to observe star (especially transient objects such as GRB) light with a several seconds exposure. Part of the detectors have been already constructed at the elevation of 3,300 [m] of Mauna Loa on the island of Hawaii and are ready for performance tests. In this presentation, we will talk about slow control system of Ashra, for example cloud monitor and weather monitor. Cloud monitor is very important for observations in moonless nights because clouds in our FOV is not visible to human eyes and usual cameras. We have developed a our own cloud monitor system which can watch clouds from altitude = 90 [deg] to -10 [deg]. Additionally current status of detectors and some performance tests will be presented.

If this papers is presented for a collaboration, please specify the collaboration

Ashra

Summary

Reference

Proceedings of the 30th International Cosmic Ray Conference; Rogelio Caballero, Juan Carlos D'Olive, Gustavo Medina-Tanco, Lukas Nellen, Federico A. Sánchez, José F. Valdés-Galicia (eds.); Universidad Nacional Autónoma de México, Mexico City, Mexico, 2008; Vol. 3 (OG part 2), pages 1405-1408

Primary author(s) : Mr. OKUMURA, Akira (Institute for Cosmic Ray Research)

Co-author(s) : Dr. GUILLIAN, Gene (University of Hawaii Manoa); Mr. HAMILTON, John (University of Hawaii Hilo); Dr. KIMURA, Takayuki (Ibaraki University); Ms. KOHTA, Noriko (Toho University); Dr. KUZE, Hiroaki (Chiba University); Dr. LERNED, John (University of Hawaii Manoa); Dr. MASUDA, Masataka (Tokyo Institute of Technology); Dr. MATSUNO, Shigenobu (University of Hawaii Manoa); Mr. MORIMOTO, Yusuke (Toho University); Mr. NODA, Koji (Institute for Cosmic Ray Research); Dr. OGAWA, Satoru (Toho University); Dr. OLSEN, Steve (University of Hawaii Manoa); Dr. SASAKI, Makoto (Institute for Cosmic Ray Research); Dr. SHIBUYA,

Hiroshi (Toho University); Mr. SHINOMIYA, Kohei (Chiba University); Dr. SUGIYAMA, Naoshi (Nagoya University); Mr. YAMAGUCHI, Yohei (Chiba University); Mr. YASUDA, Masahiro (Tokyo Institute of Technology); Dr. VARNER, Gary (University of Hawaii Manoa); Dr. WATANABE, Yasushi (Tokyo Institute of Technology); Ms. WATANABE, Yui (Toho University); Mr. AITA, Yuichi (Institute for Cosmic Ray Research); Mr. AOKI, Toshifumi (Institute for Cosmic Ray Research); Dr. ASAKA, Yoichi (Institute for Cosmic Ray Research); Dr. BROWDER, Tom (University of Hawaii Manoa); Mr. CHONAN, Tsutomu (Institute for Cosmic Ray Research); Dr. DYE, Steve (University of Hawaii Manoa); Mr. EGUCHI, Makoto (Institute for Cosmic Ray Research); Dr. FOX, Robert (University of Hawaii Hilo)

Presenter(s) : Mr. OKUMURA, Akira (Institute for Cosmic Ray Research)

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