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Pinhole camera for study of atmospheric UV flashes as a source of background in the TUS experiment.

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Abstract content

The near UV glow of the night atmosphere and near UV transient events in the atmosphere are sources of the background phenomena in search for ultra high energy cosmic ray fluorescence signals in the atmosphere. Nature of the UV atmospheric transient events is not known yet and more experimental data on them are needed. Study of space-time development of UV transient events is suggested with the help of a new fast imaging detector: pinhole camera with the multi anode photomultiplier tube. Design and construction of the pinhole camera to be installed at the satellite is presented. The camera mountain testing and calibration are suggested.

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

TUS experiment

Summary

Reference

Proceedings of the 30th International Cosmic Ray Conference; Rogelio Caballero, Juan Carlos D'Olivo, Gustavo Medina-Tanco, Lukas Nellen, Federico A. Sánchez, José F. Valdés-Galicia (eds.); Universidad Nacional Autónoma de México, Mexico City, Mexico, 2008; Vol. 5 (HE part 2), pages 877-880

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