



Contribution ID : 162

Type : **Poster**

R&D of the Fresnel optical system for the TUS space detector

Friday, 6 July 2007 14:45 (0:00)

Abstract content

The space TUS detector of UV fluorescence light radiated by EAS of Ultra High Energy Cosmic Rays (UHECR) is under preparation. The TUS optical system will consist of the Fresnel mirror-concentrator of ~2 sq. m. and 256 PMT pixels as the photo receiver at the mirror focal surface. The 2 PMT pixel prototypes were tested and used for data taken at the "Universitetsky-Tatiana" and Compass-2 satellites. The R&D study of the Fresnel mirror production is presented.

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

TUS collaboration

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. 5 (HE part 2), pages 881-884

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Session Classification : Posters 2 + Coffee

Track Classification : HE.1.5