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TUS space detector as a pathfinder for the next generation space detectors

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Abstract content

Space detectors of UV fluorescence and Cherenkov light radiated by ultra high energy extensive air showers (UHECR EAS) have advantages of high EAS detection aperture in observing the whole sky by one instrument and will be able to get statistically rich results on the UHECR arriving directions. At the same time the space environment and particularly variable UV background intensity put some restrictions to EAS measurements from the satellites. Before making and launching the full scale fluorescence detectors like JEM-EUSO and TUS-M for UHECR measurements the TUS detector comprising the main parts of photo receivers of JEM-EUSO and TUS-M is planned to be launched in 2009-2010. Results of the TUS detector will help to make final design of the next generation of space UHECR detectors.

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

TUS-M and JEM-EUSO

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 1089-1092

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