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Advancement of the wide-angle JEM-EUSO optical system with holographic and Fresnel lenses

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Abstract content

Extreme Universe Space Observatory on JEM/EF (JEM-EUSO) is a space mission to observe extremely high-energy cosmic rays. JEM-EUSO is a wide-angle refractive telescope in near-ultraviolet wavelength region to observe time-resolved atmospheric fluorescence images of the extensive air showers from the International Space Station. This paper will discuss the optical system of JEM-EUSO. We will report on an optimized optics design that maximizes the sensitivity of JEM-EUSO. We will describe this design and report on the results of optics manufacturing tests.

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

the JEM-EUSO 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 1033-1036

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