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Cosmic Rays Composition Measurements by the HiRes Stereo

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Abstract content

The High Resolution Fly's Eye (HiRes) fluorescence detectors have been collecting extensive air shower (EAS) data for more than 6 years . The obtained statistics allows us to more precisely estimate the mass composition of the ultra high energy cosmic rays (UHECR). In this study we summarize the stereo shower parameters measurements, especially X_{\max} measurements. The sensitivity limitations of our detector, the effect of the hadronic model choice on the estimate, and systematic errors of our measurements are also presented.

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

High Resolution Fly's Eye (HiRes)

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. 4 (HE part 1), pages 463-466

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