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All-particle cosmic ray energy spectrum in the 3-200 PeV energy range

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Abstract content

We present the all-particle primary cosmic ray energy spectrum obtained by a parametric event-by-event determination of the primary energy. The results are obtained on the basis of an expanded experimental data from the GAMMA experiment. The method was developed using the CORSIKA EAS simulation code with the SYBILL interaction model and taking into account the response of the GAMMA detectors and reconstruction uncertainties of the EAS parameters.

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

GAMMA collaboration

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. 4 (HE part 1), pages 119-122

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