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Measurement of the lateral distributions of electromagnetic component to study the chemical composition of the cosmic rays in the knee energy region

Abstract content

Lateral distributions of electromagnetic component in extensive air showers at different zenith angles measured with the Tibet-III air shower array are compared with Monte Carlo simulations based on the interaction models of QGSJET01c and SIBYLL2.1 taking into account of the detector configurations. In this paper, we discuss the sensitivity of the lateral distribution of the electromagnetic component to the chemical composition of the cosmic rays and also to the hadronic interaction models.

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

Tibet ASgamma Collaboration

Summary

Reference

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