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Chaos of Cosmic ray energy time series

Abstract content

The time variation of the chaotic feature of the energy series of cosmic rays shows a periodic behaviour with the rotation of the earth. The periods are 1.0day and 1.3day. The energy series of cosmic rays are evaluated by the formula of Nishimura-Kamata-Greisen. The chaotic feature is found by the correlation dimension analysis and Lyapunov exponent analysis. The periods mean that the chaotic series cosmic rays arrive from definite directions.

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

Large Area Air Shower Group

Summary

Reference

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