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Influence of Solar Activity on Low Amplitude Cosmic Ray Diurnal Anisotropy

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Abstract: A detailed study has been conducted on the occurrence of a large number of low amplitude events (LAE) of cosmic ray (CR) diurnal anisotropy during 1981--1994 as a function of solar activity. The low amplitude days with the time of maximum in the corotational/azimuthal direction do not indicate any significant correlation with solar activity. Our observations suggest that the direction of the anisotropy of LAE events contribute significantly to the long-term behaviour of the CR diurnal anisotropy. The occurrence of LAE is dominant during solar activity minimum years.

Key Words: Cosmic ray, sunspot, solar activity, solar cycle and diurnal anisotropy.

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