

STATISTICAL ASPECTS OF ENERGETIC PARTICLE INTENSITY VARIATIONS BETWEEN 1974 AND 2000

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IMP-8 data provide long-term 1 AU baselines for energetic particle intensities in the Heliosphere. The available time series are distorted by various kinds of cross-talk and backgrounds, changes in thresholds, and discreteness effects due to low counts. The impact of distortions on various data sets will be compared. Quantiles and extremal statistics will be invoked to emphasize different aspects of the temporal dependence of proton and electron intensity distributions.