

## “INTERMITTENCY” EFFECTS ON SOLAR WIND OBSERVATIONS

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Many complex physical systems in Nature are characterized by intermittency. For these systems, energy at a given scale is not evenly distributed in space and any variable affected by intermittency alternates bursty activity to quiescence. Within interplanetary space context, solar wind parameters are highly intermittent. Although the influence of this phenomenon on the scaling of solar wind fluctuations has been evaluated using existing intermittency models, it has never been possible to extract intermittency from a given time series in order to show experimentally its effects on the analysis. Local Intermittency Measure provides the tools to achieve such an interesting task. The possibility given by the LIM method, based on the use of wavelets, to localise intermittent events in space and time allows to investigate their nature by looking at the behavior of all the solar wind parameters characterising those events. It has been found that intermittency is made of both compressive and uncompressive events. Finally, these events can be removed and a new time series, without intermittency, can be reconstructed and studied.