



Multifractal analysis of seismic electric signals observed prior a earthquake of M6.7

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In this work we studied the multifractal spectrum behavior calculated during the presence of a possible seismic electrical signal (SES). This signal was detected in a geoelectrical time series registered prior a seism of M6.7 occurred on October 24, 1993 in México. We calculated the multifractal spectrum by using nonoverlapping windows of segments of 1 hour. Our results display the singularities spectrum calculated before, during and after the possible SES, showing important differences in some parameters like the width and maxima values, among others, in the spectra. Those observations suggest that the physical system has different dynamical features along the process and possibly as a precursor sign.