

WAVELET ANALYSIS OF SOLAR MACRO-SPICULE RECURRENCES

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We study the temporal behavior of the intensity of spicules and macro-spicules at the solar limb as observed by TRACE (Transition Region and Corona Explorer) 1600 Å channel and obtain some evidence of spicule oscillations using the wavelet analysis techniques. The time-frequency analysis provided by the wavelet analysis shows a temporal behavior of spicules with recurrences at periods of about 200-260 seconds with a typical lifetime of 10 minutes. Finally, we discuss two scenarios regarding source of spicule oscillations.