

INVESTIGATION OF RELATION BETWEEN THE SUN ACTIVITY AND THE EARTH SEISMIC ACTIVITY USING THE WAVELET TRANSFORMATION

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The paper presents research of relation between solar activity provided by Wolf number series and the Earth seismic activity expressed by the amount of energy released during the earthquakes over the long periods of 1890-2012 and 1705-2012. The paper includes the results of experimental study of processes achieved using the wavelet transformation.

Keywords: solar activity, Earth seismicity, wavelet analysis, non-orthogonal bases.