

ON THE ORIGIN OF SEISMIC RINGING OF THE MOON

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Abstract. The most typical feature of the lunar seismograms is considerable duration of seismic signals. On the basis of the created program for calculation of wave fields, simulation of seismic ringing of the Moon is conducted. The outcomes of simulation allow making the following conclusion. As a first approximation, considerable duration of the seismic ringing of the Moon can be explained by a resonance-frequency behavior of a lamina (regolith) without the dissipation effects due to a high level of the medium non-uniformity.

Keywords: Moon, seismogram, seismic ringing.