IV INTERNATIONAL BALTIC SYMPOSIUM ON APPLIED AND INDUSTRIAL MATHEMATICS

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Belashev B. Z. (Petrozavodsk, Institute of Geology, Karelian Research Centre RAS)**. Cyclicity of geophysical processes.**

Abstract: The aim of the study is to identify and compare the periodicity of the time sequences of seismic noise, geomagnetic variations and volumetric radon activity,which were obtained from specialized complexes that automatically conduct geophysical monitoring in Karelia. The time sequences studied were processed using Burg's maximum entropy method.It was established that most of the allocated process periods are close to the periods of own fluctuations of the Earth.

Keywords: seismic noise, geomagnetic variations, volumetric radon activity, periodicity, own fluctuations of the Earth.