

## **Method of Signal Analysis Based on the Mathematical Morphology (the Case of Model Experiment)**

The morphological analysis method was applied for the extraction of quasi periodic signals from subwoofer. Signals were registered in August 2009 on science station of A.M. Obukhov Institute of Atmospheric Physics. The signals frequencies were 45, 75, 105, 130 Hz. Distance from sources were from 0 to 1255 m. The registration was carrying out during daytime and night. The effectivity of the method for the extraction of quasi periodic signals from different noises has been shown. The morphological analysis method allows to detect signals with nonconstant phase. It is important for detecting signals at large distances from sources.

**Primary author:** TSYBULSKAYA, Nadezda (A.M. Obukhov Institute of Atmospheric Physics)

**Presenter:** TSYBULSKAYA, Nadezda (A.M. Obukhov Institute of Atmospheric Physics)

**Track Classification:** Theme 3: Advances in Sensors, Networks and Processing