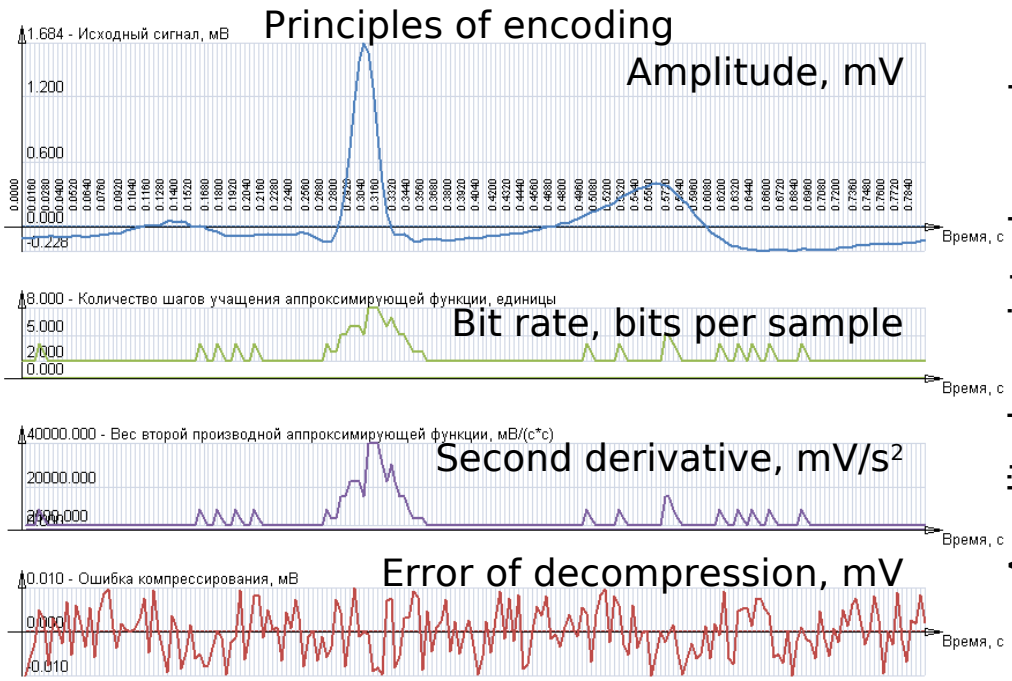
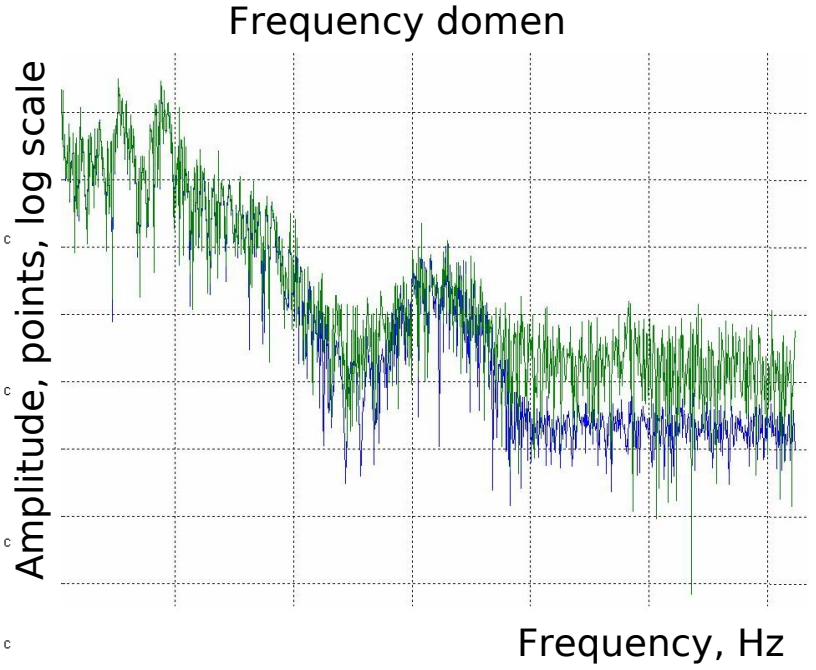
# Method and adaptive algorithms for biomedical signals compression with guaranteed accuracy based on the second order delta-transformations

- The method allows to compress ECG and EEG signals 4,5 ÷ 7,7 times with a guaranteed accuracy of 1 ÷ 5 mV (13 ÷ 10 bits of the original signal, which values of samples are in the range ~ [-4, +4] mV)
- The method provides high performance and high compression level
- The method is purposed to use in realtime for compression of nonstationar digital signals
- The algorithms is purposed and optimized for signal processors with integer calculations




Kravchenko P.P., Shulga A.S. "About the solving of problem of biomedical signals compression, based on the second order delta-transformation with guaranteed accuracy", *Proceedings of the SFU. Engineering. Thematic Issue. "Medical Information Systems. Taganrog, Russia*, No. 5 (82), 2008, p 120-127