

# **Spatial Structures of Human Multichannel EEG Quasi-stationary Segments During Memory Task**

An.A. Fingelkurts, Al.A. Fingerlkurts, S.V. Borisov, R.M. Ivashko, A.Ya. Kaplan  
Moscow State University, Faculty of Biology, Human Brain Research Group.

This work is dedicated for one of the hottest question in modern human neurophysiology. The problem is concern the mechanism of cortex process spatial integration. Last years in this direction has appeared new perspectives because of it's found out the microstructural cortex organization of biopotential field. Using the original method of quasi-stationary EEG analysis with the spatial mapping of segment' boundaries time coincidence in multichannel EEG, we for the first time experimentally show the existence of discrete spatial modules of cortex EEG architecture.

More over it was found the existence of specific types of spatial modules of discrete inter-cortex relation (we called it "*operational modules*"), which are characterized various stages of memory task performance.