



*School professors Vladimir Makats (Ukraine).  
Initial course of remote training of doctors  
on a problem: "Functional biodiagnostics and  
Correction of vegetative infringements at children".*

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76.29.47-pediatrics; 76.35.35-rehabilitation;  
76.35.49-alternative medicine;

*... According to recommendations the CART of one of bases of medicine at the present stage should become electro diagnostics on points of acupuncture and reflexotherapy ... [the International meeting the CART on traditional medicine. Yerevan, 19-20.09.2003].*

**IS FUNCTIONAL-VEGETATIVE COMPLEXES.  
FIRST SIGNS OF THE BIOPHYSICAL REALITY (message-10).**

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**The resume.** Studying of the directed bioelectric activity of channels of traditional Chzhen-tszju of therapy has specified in a biophysical reality of separate is functional-vegetative complexes. The open phenomenon demands detailed studying.

**Keywords.** Is functional-vegetative system of the person, system dependence, is functional-vegetative complexes.

**The short preface.** Problem article "... Is functional-vegetative complexes. First signs of a biophysical reality" it is devoted the unknown person before Is functional-vegetative system of the person (FVS) and is a fragment of proofs of its biophysical reality. In article following designations of channels of the acupuncture (meridians) are used, traditional *опраhное* which name is presented today by concept about interdependent functional systems: LU - lungs; LI - thick intestines; ST - a stomach; SP - a spleen (pancreas); HT - heart; SI - small intestines; BL - a bladder; KI - kidneys; a PC pericardium; TE - a threefold heater (lymphatic system); GB - a gall bladder and LR - a liver.

Analogs the presented experimental materials aren't present.

**Research objective** - the information of the scientific and medical public on the unknown person before Is functional-vegetative system of the person. Open phenomena confirm a biophysical reality of channels of acupuncture (meridians) of traditional Chzhen-tszju of therapy, its system character and the direct relation to a vegetative homeostasis. Biophysical audit of traditional positions specifies in a number of theoretical and practical errors that demands additional specialization of experts and corresponding correction of curriculums.

**Materials and research methods.** Supervision over functional (vegetative) health of the

Children's population of Ukraine were spent under the Program "System of two stages of rehabilitation of vegetative infringements at children living in a zone of radiating control of Ukraine" (Commissions of the Cabinet of Ukraine №1861/4 and №12010/87)" on the basis of an original method of vegetative biodiagnostics (on V.Makats) [1-2; 4-9; 15-16].

Its methodology is proved by unknown earlier biophysical phenomena, has original standard base and is characterized by comparability of the received results at repeated researches. Under the Program it is surveyed more than 18.000 children of a different floor and age.

**Results of research and their discussion.** About is functional-vegetative complexes of the information in the scientific literature isn't present. Their first signs have been found out at the initial stages of the analysis of system dependence at excitation and oppression of separate channels of acupuncture. Further four functional complexes which prominent features were the same directed reactions have been found out: RP-BL, LI-TE-SI, LU-PC HT and ST-KI-GB-LR.

Let's consider initial signs, characteristic for each complex.

On a histogram example (fig. 1a) it is visible that functional systems have a characteristic orientation of the bioelectric activity which is reflected in histograms by specific dynamics. So, at dynamic excitation of functional system SP (Spleen-pancreas), only channel BL (Bladder) adequately reacts to increase of its activity. Other functional systems at its excitation are oppressed. There is obvious a reality of certain system dependence for which, according to P.Anokhin's theory, there should be auxiliary systems of functional overlapping.

Give, then we will in details consider ...

**The first functional complex (FK-1) is formed by two systems: SP-BL**

(A spleen-pancreas - the Bladder; fig. 1 a-b).

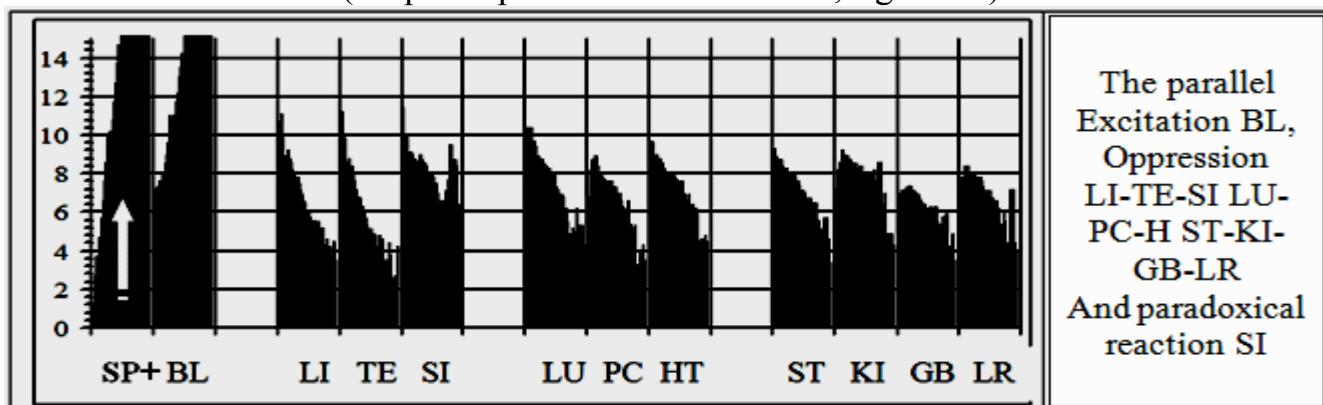


Fig. 1a. First signs of group system activity at channel **SP** excitation

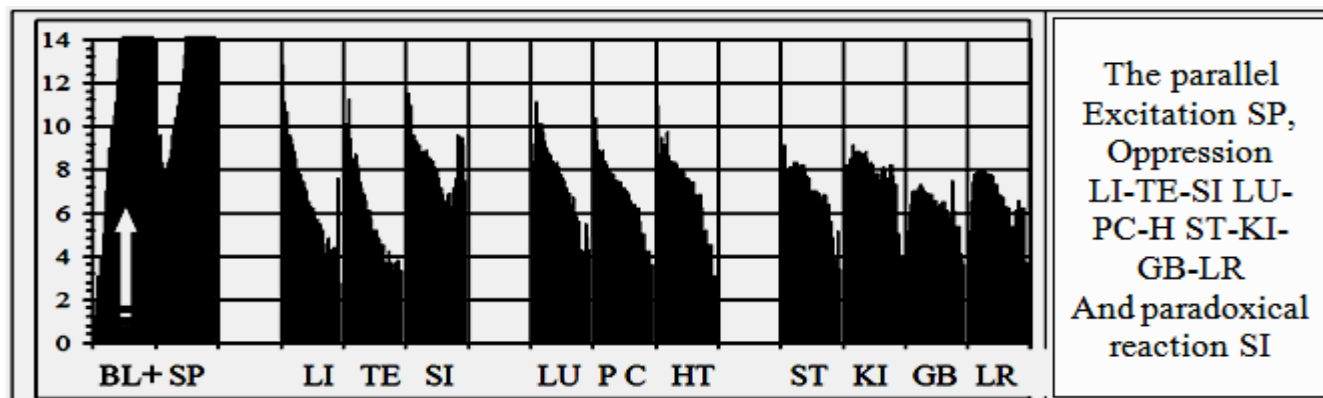


Fig. 1b. First signs of group system activity at channel **BL** excitation

**The second functional complex ( $\Phi K-2$ ) is formed by three systems: LI-TE-SI**  
(Thick intestines – the Threefold heater – Small intestines; fig. 2 a-c).

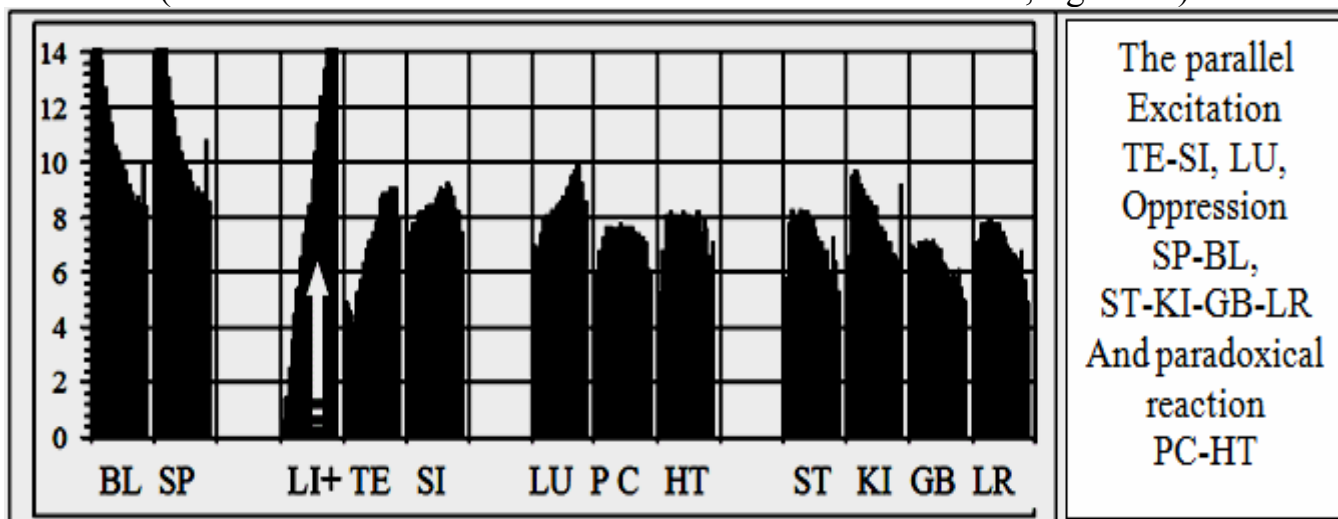


Fig. 2a. First signs of group system activity at channel LI excitation

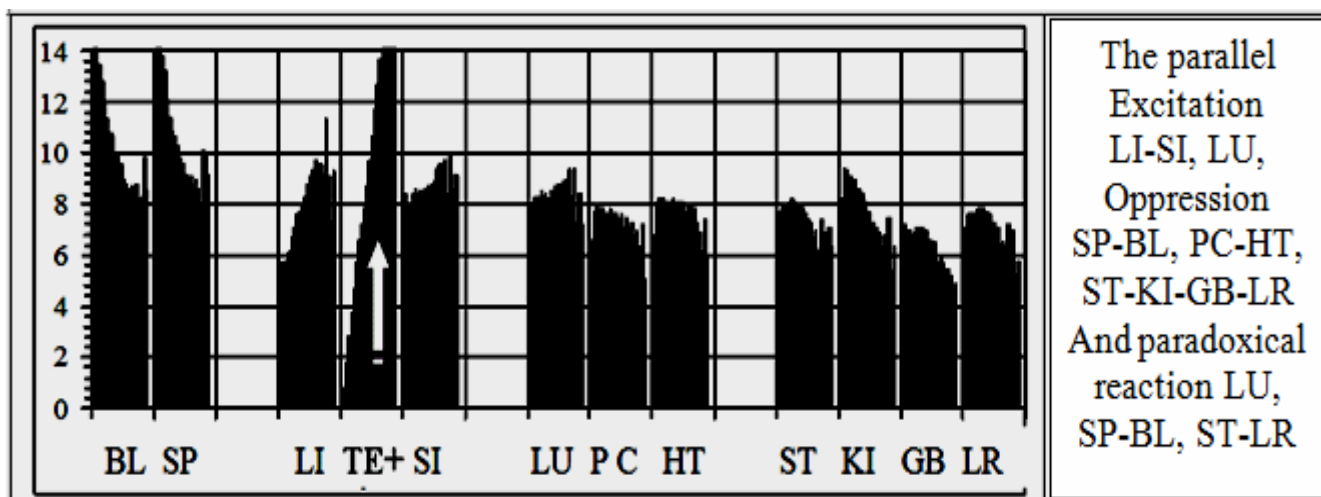


Fig. 2b. First signs of group system activity at channel TE excitation

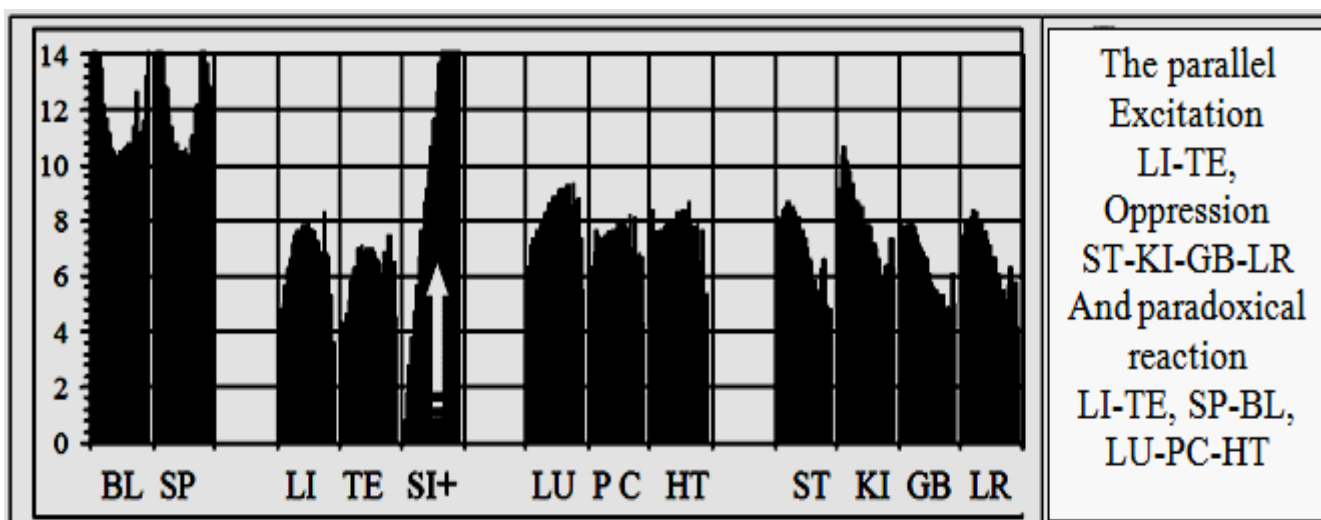


Fig. 2c. First signs of group system activity at channel SI excitation

**The third functional complex (FK-3) is formed by three systems: LU-PC-HT**  
(Lungs – the Pericardium – Heart; fig. 3 a-c)

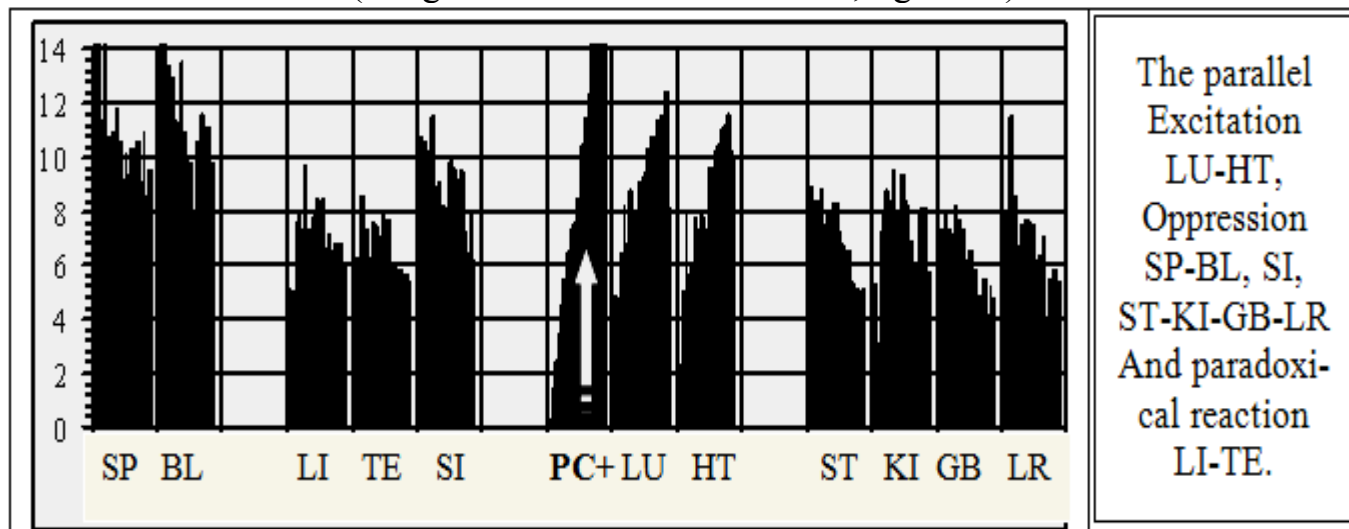


Fig. 3a. First signs of group system activity at channel PC excitation

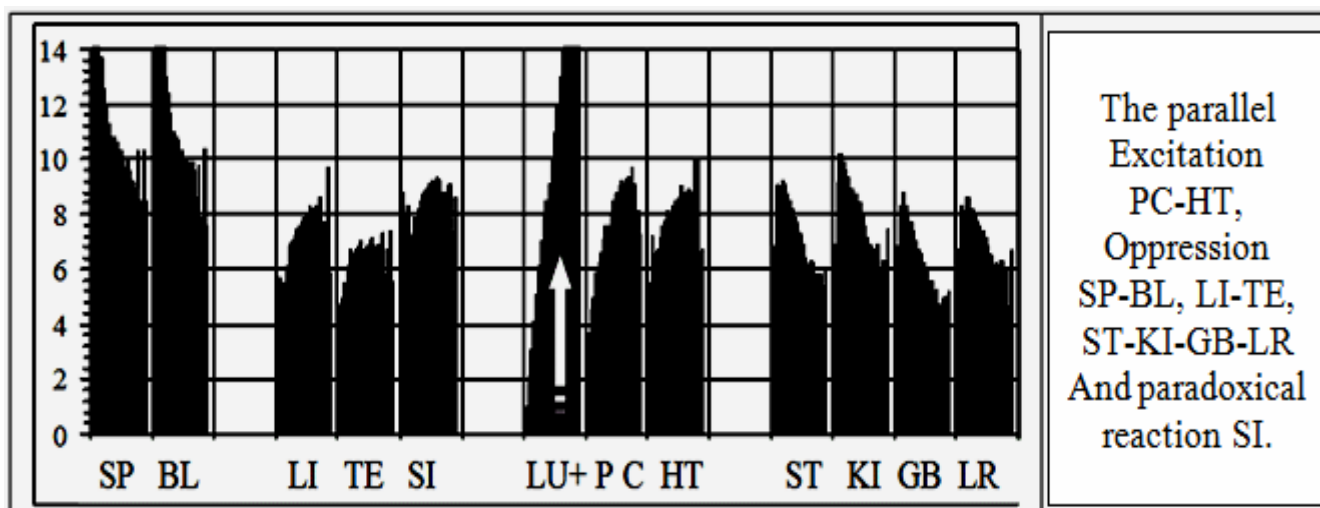


Fig. 3b. First signs of group system activity at channel LU excitation

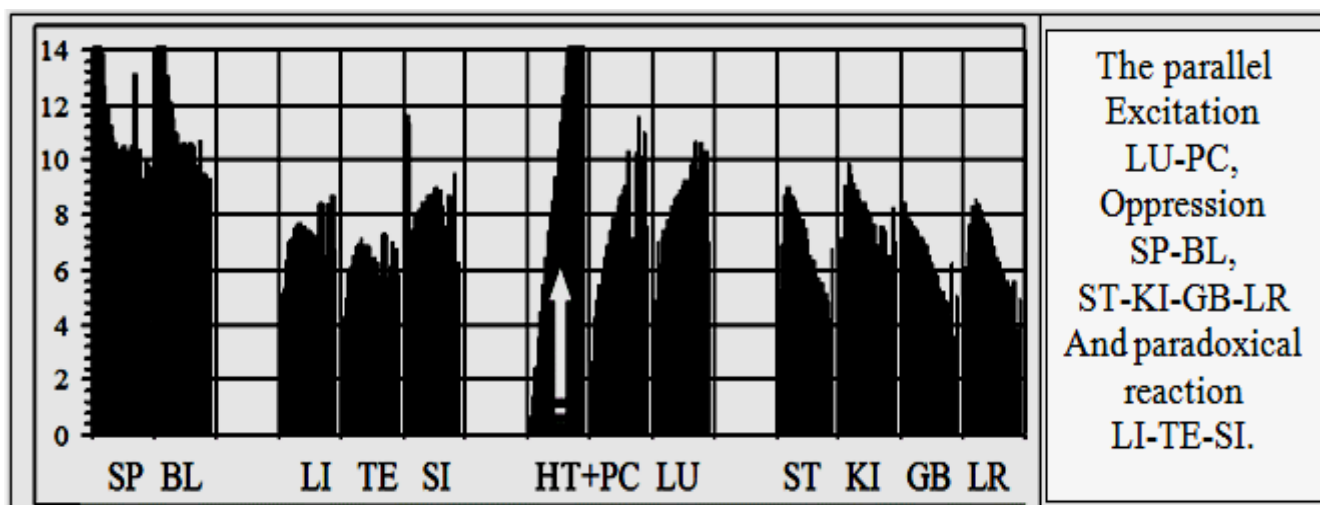


Fig. 3c. First signs of group system activity at channel HT excitation

The fourth functional complex (FK-4) is formed by four systems:  
ST-KI-GB-LR (The Stomach – Kidneys – the Gall bladder – the Liver; fig. 4 a-d)

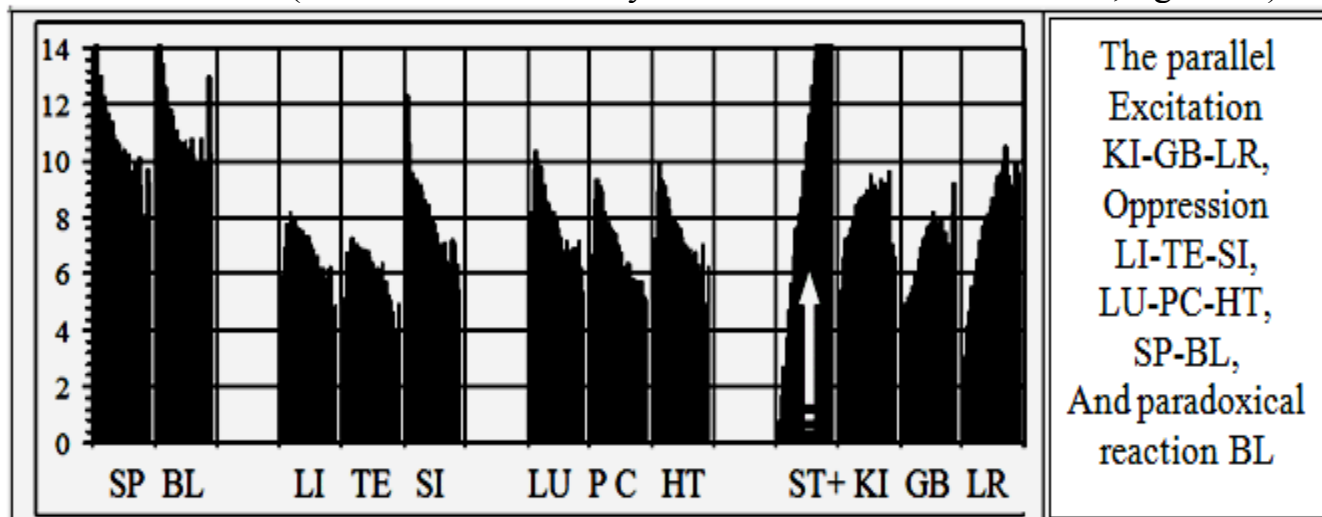


Fig. 4a. First signs of group system activity at channel **ST** excitation

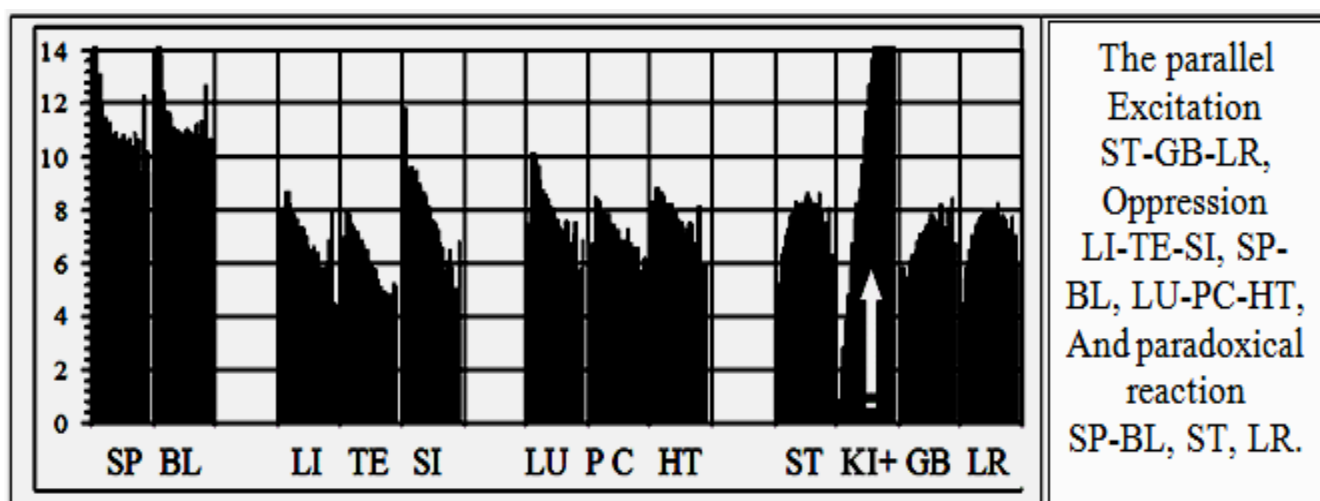


Fig. 4b. First signs of group system activity at channel **KI** excitation

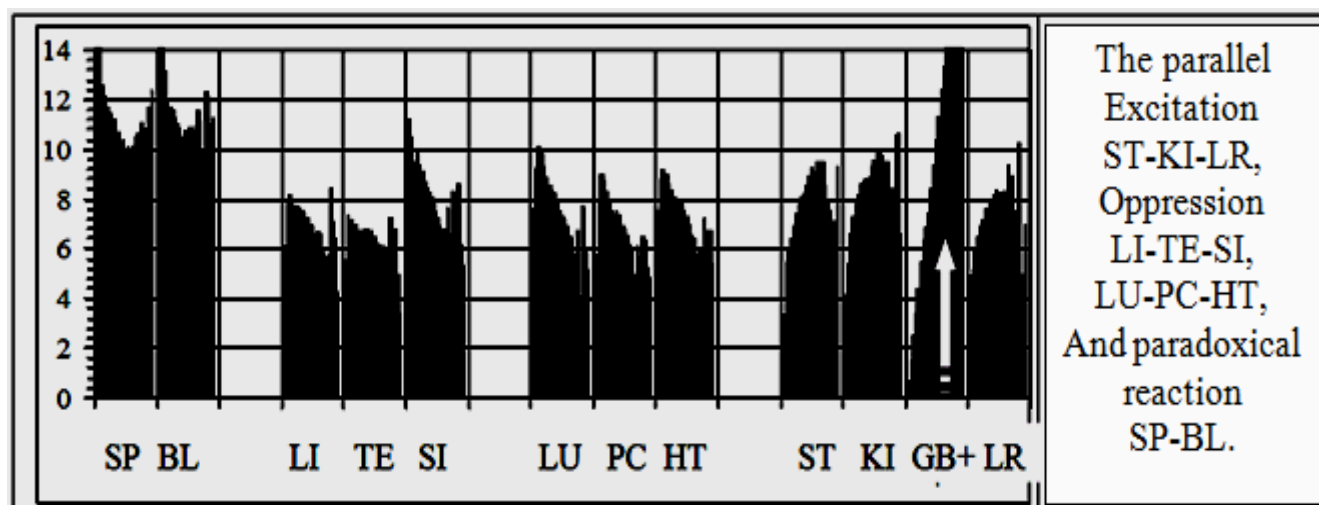


Fig. 4c First signs of group system activity at channel **GB** excitation



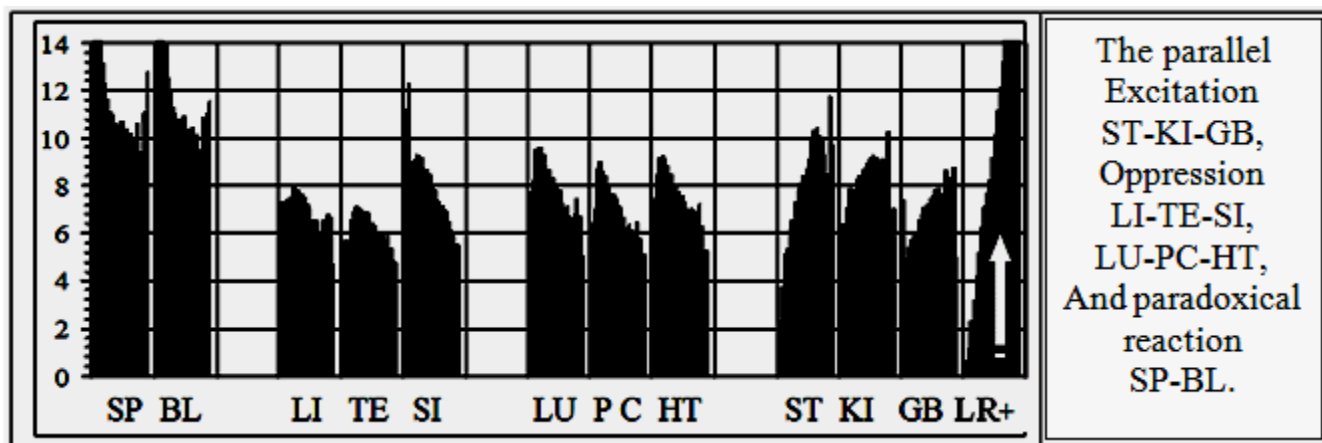


Fig. 4d First signs of group system activity at channel LR excitation

The system analysis of the presented histograms specifies in ability of certain systems to be grouped by the directed reactions in separate functional complexes. The found out phenomenon is represented to us extremely important for further there can be a speech about the branched out functional control over dynamic vegetative balance ...

But there is a question: whether complex signs remain at accruing excitation separate functional to - and after own zone of functional norm?

### Conclusions.

- 1) The First biophysical signs of functional complexes testify to their reality.
- 2) Identification of open system dependence demands the further detailed studying of the revealed biophysical phenomenon.

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