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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 SYSTEM OF THE PERSON. PHENOMENON OF PARADOXICAL REACTIONS AS THE BIOPHYSICAL REALITY (message-13).

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The resume. The phenomenon of paradoxical reactions of functional systems and system complexes is described. Experimental materials for the analysis are presented and its value in formation of dynamic functional balance (a vegetative homeostasis) is discussed. Identification of the revealed system dependence specifies in necessity of detailed studying of a phenomenon.

Keywords. Is functional-vegetative system of the person, system paradoxical reactions.

The short preface. Problem lecture "... Phenomenon of paradoxical reactions as a biophysical reality" 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 lecture following designations of channels of the acupuncture (meridians) are used, traditional органное which name is presented today by concept about interdependent functional systems: LU - lungs; LI-thick intestines; a ST-stomach; a SP-spleen (pancreas); HT-heart; SI-small intestines; a BL-bladder; KI-kidneys; a PC pericardium; a TE-threelfold heater (lymphatic system); a GB-gall bladder and a LR-liver.

Analogs the presented experimental materials aren't present.

Research objective - the information of the scientific and medical public on the unknown person before his 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. Before our researches the phenomenon of paradoxical reactions was unknown. Its first signs have been found out at the analysis of types of system functional reactions (fig. 1; channels KI, LR, SP, BL).

Development of paradoxical reactions (PR) causes changes a direction of activity of dependent functional systems on opposite (excitation on oppression and, on the contrary). Ability of functional systems is established also is paradoxical to react at different levels of activity (in a zone of norm and on border maximum, or the minimum pressure). Today the following types PR, characteristic for separate functional complexes (fig. 2) are revealed.

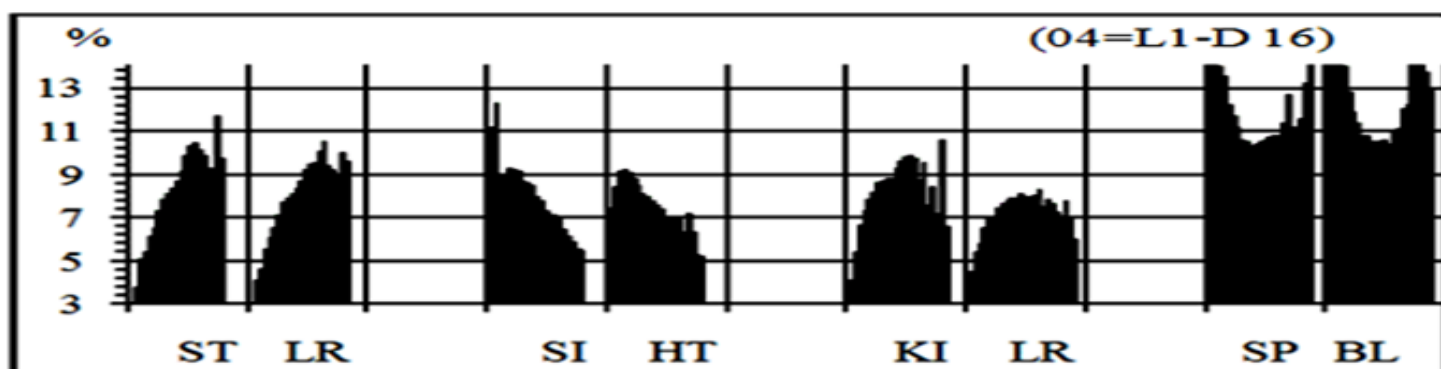


Fig. 1 First signs of paradoxical reactions

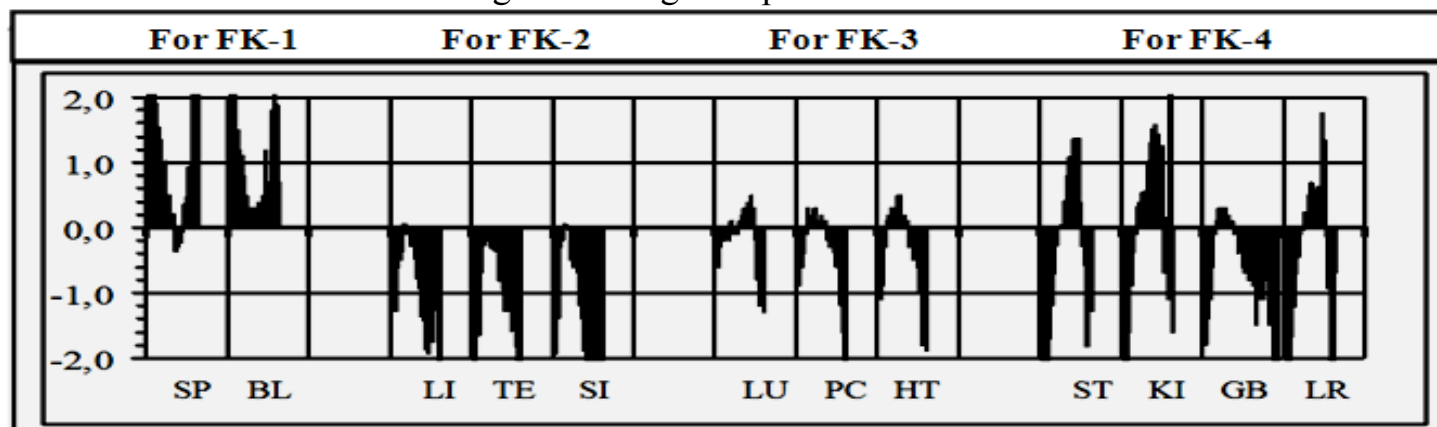


Fig. 2 Types of full-scale complex paradoxical reactions

Significant biophysical phenomenon are system IIP on excessive excitation (oppression) of certain channels and functional complexes (fig. 3-6) that specifies in real mechanisms of control and regulation of a constancy of dynamic (vegetative) balance. Thus, the biophysical reality of phenomenon IIP contradicts all hypothetical rules of traditional Chzhen-tszju of therapy. But about it in due time ...

And now we will consider available experimental materials.

PARADOXICAL REACTIONS OF SYSTEMS OF THE FIRST COMPLEX (FK-1; Fig. 3a-b)

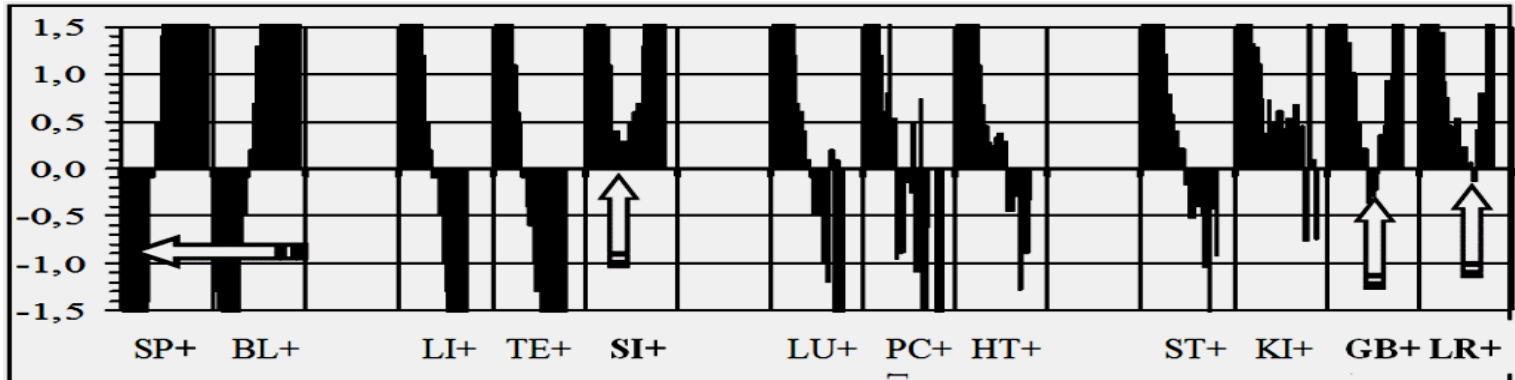


Fig. 3a Paradoxical reactions SP (Spleen-pancreas) to excitation
Other channels (their development is specified by vertical arrows).

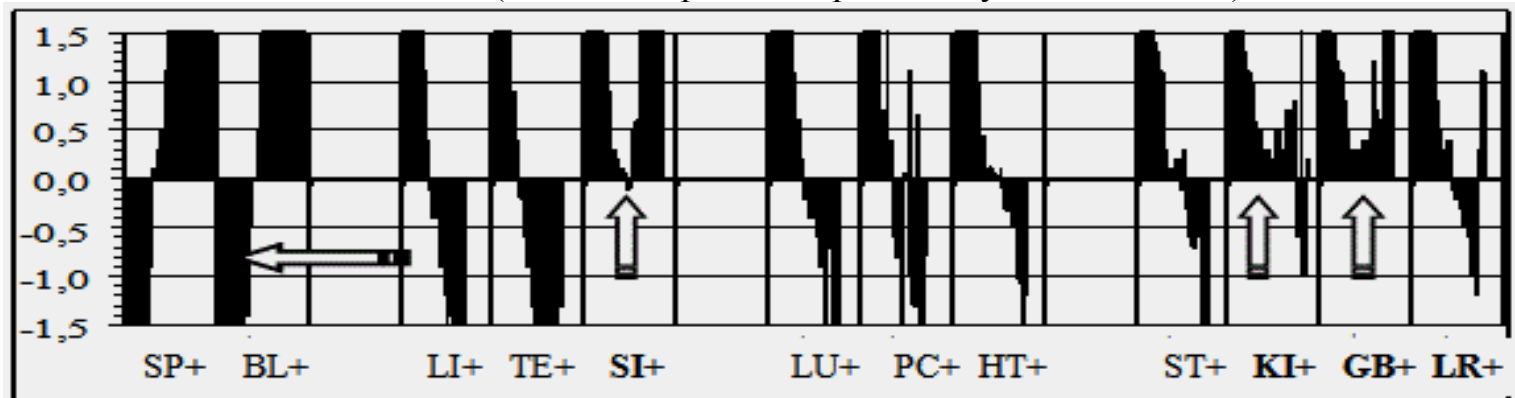


Fig. 3b Paradoxical reactions BL (Bladder) to excitation of other channels
(Their development is specified by vertical arrows).

PARADOXICAL REACTIONS OF SYSTEMS OF THE SECOND COMPLEX (FK-2; Fig. 4a-c)

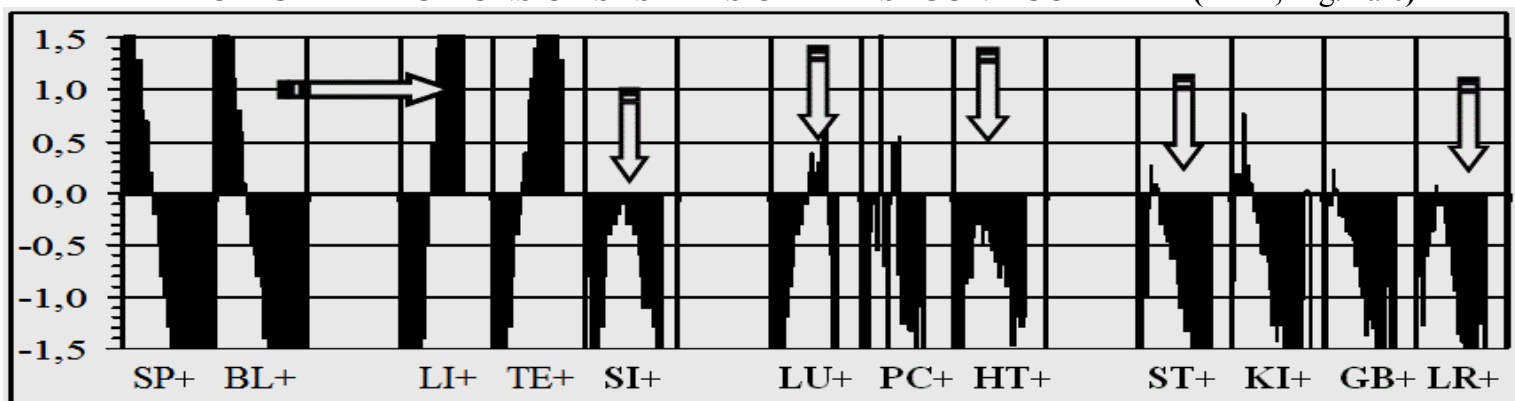


Fig. 4a Paradoxical reactions LI (Bladder) on excitation of other channels
(Their development is specified by vertical arrows).

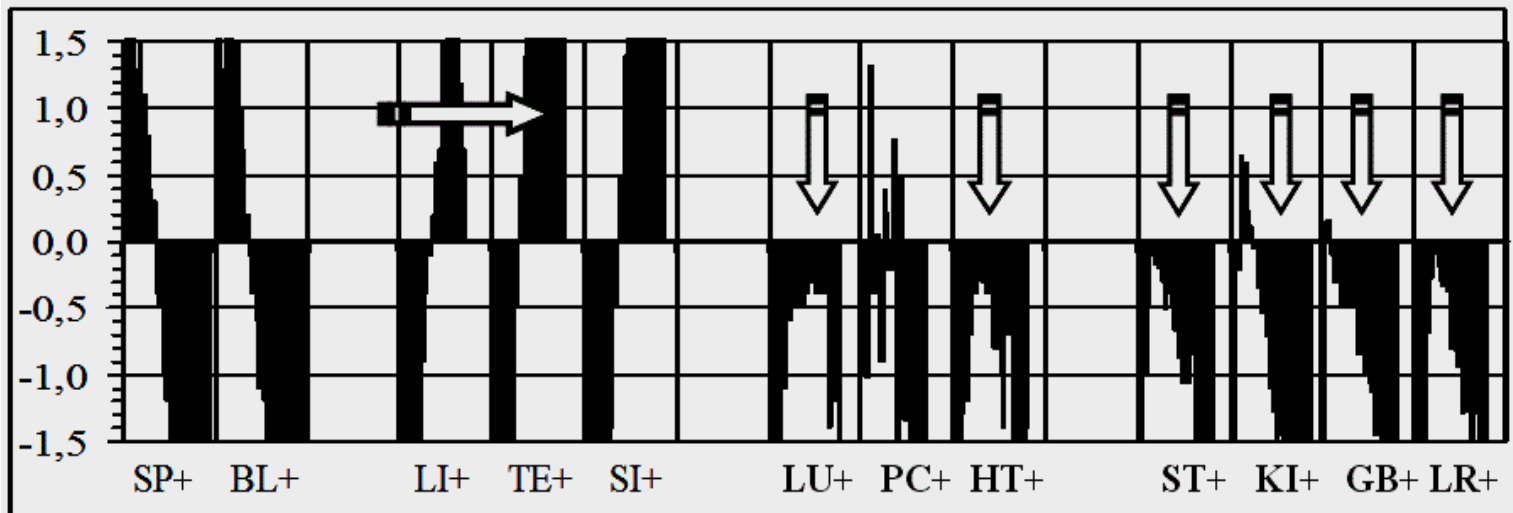


Fig. 4b Paradoxical reactions TE (the Threefold heater; Lymphatic system).
On excitation of other channels (their development is specified by vertical arrows).

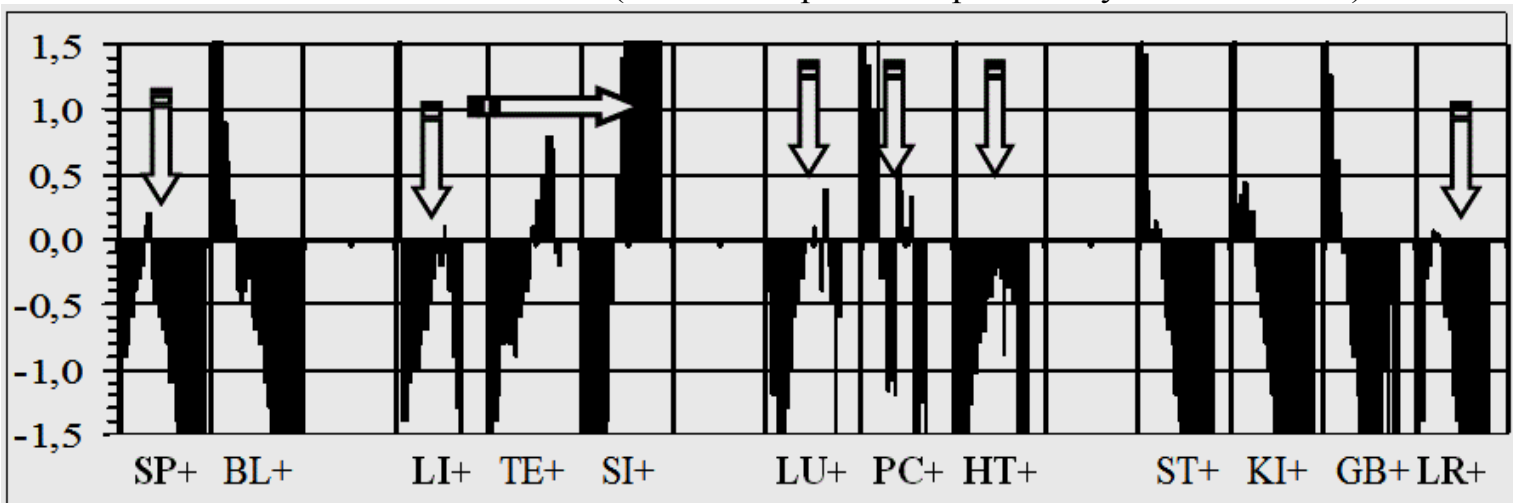


Fig. 4c Paradoxical reactions SI (Small intestines) to excitation of other channels
(Their development is specified by vertical arrows).

PARADOXICAL REACTIONS OF SYSTEMS OF THE THIRD COMPLEX (FK-3; Fig. 5a-c)

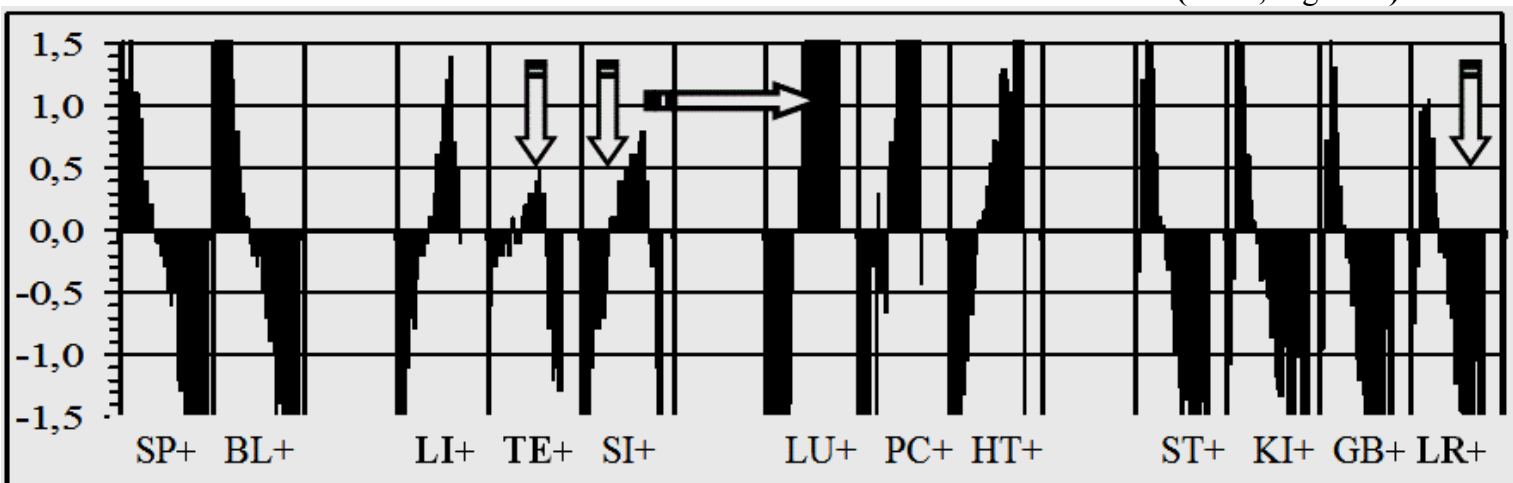


Fig. 5a Paradoxical reactions LU (Lungs) to excitation of other channels
(Their development is specified by vertical arrows).

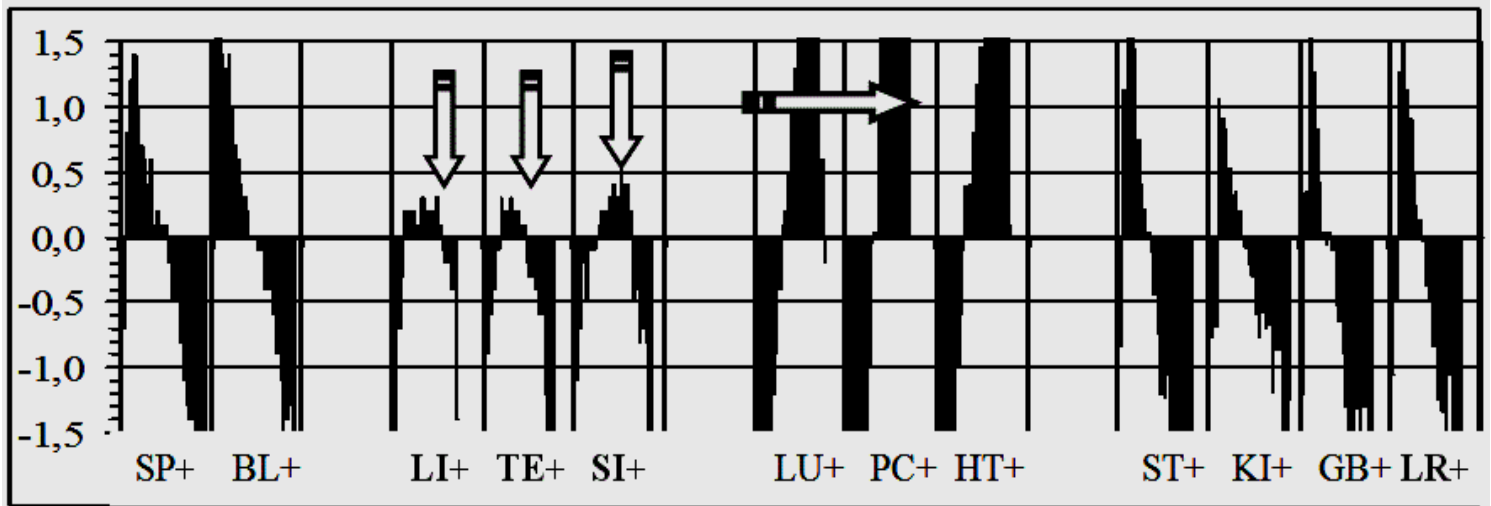


Fig. 5b Paradoxical reactions PC (Pericardium) to excitation of other channels
(Their development is specified by vertical arrows).

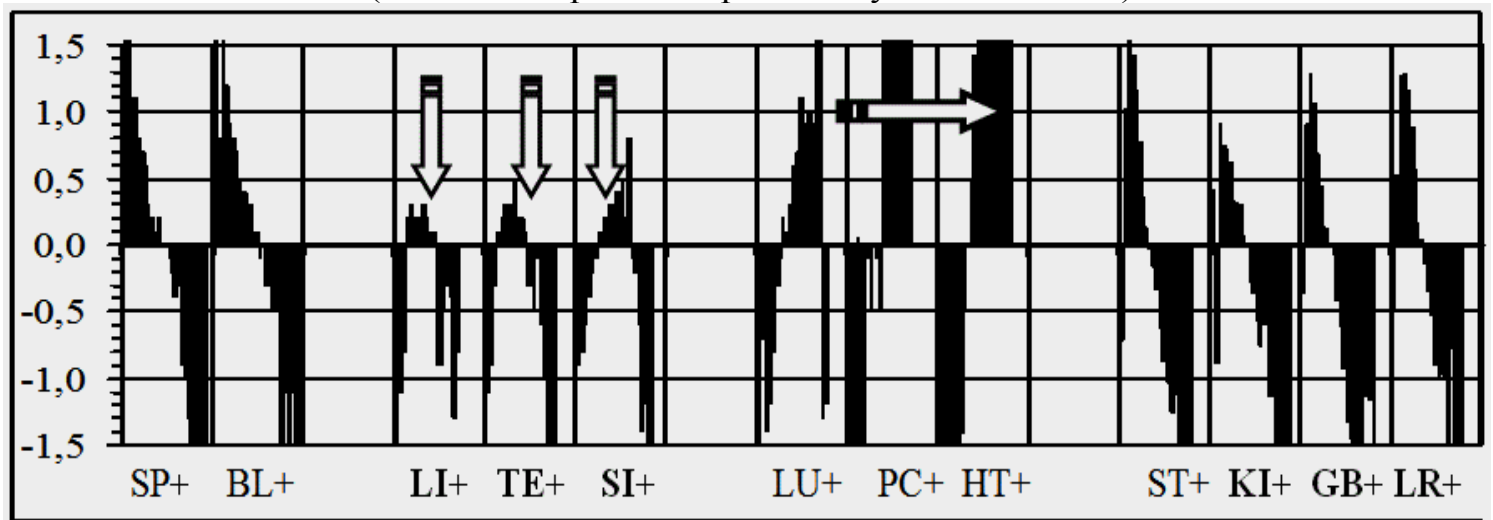


Fig. 5c Paradoxical reactions HT (Heart) to excitation of other channels
(Their development is specified by vertical arrows).

PARADOXICAL REACTIONS OF SYSTEMS OF THE FOURTH COMPLEX (FK-4; Fig. 6 a-d)

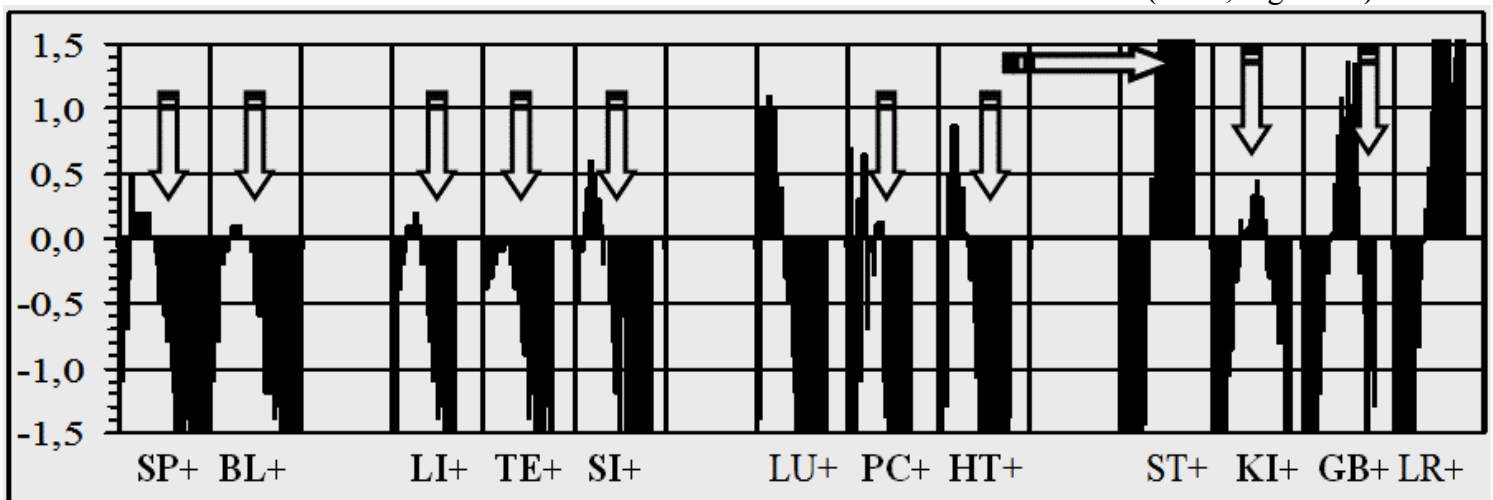


Fig. 6a Paradoxical reactions ST (Stomach) to excitation of other channels
(Their development is specified by vertical arrows).

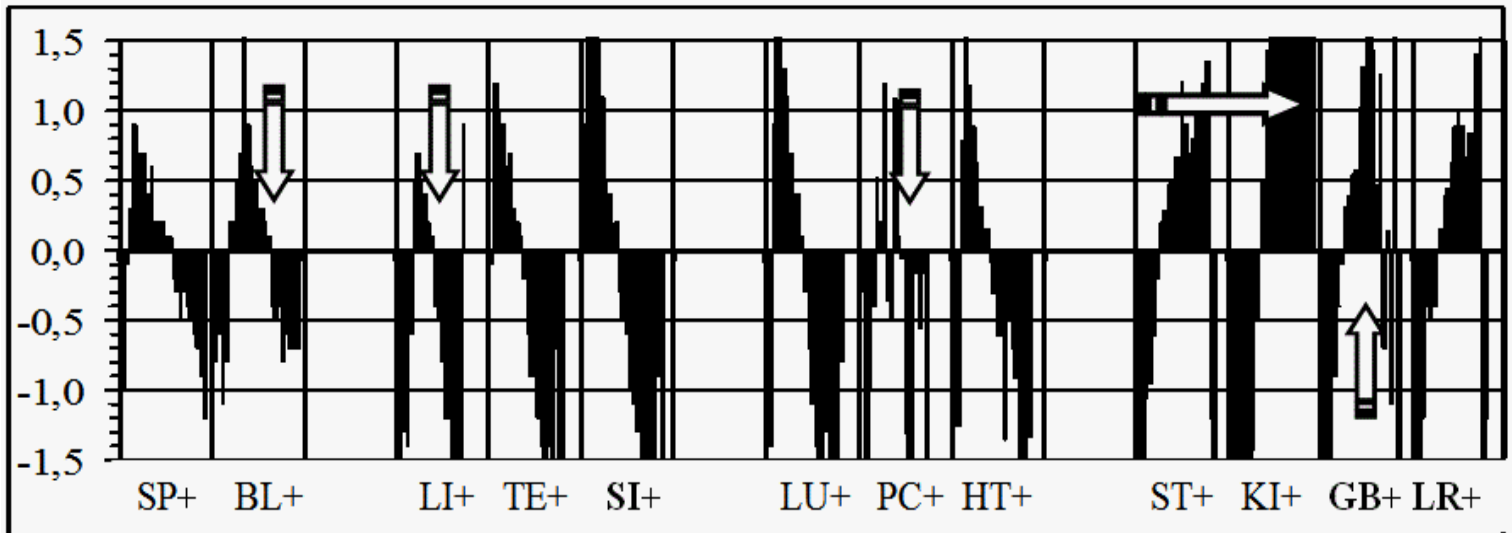


Fig. 6b Paradoxical reactions **KI** (Kidney) to excitation of other channels
(Their development is specified by vertical arrows).

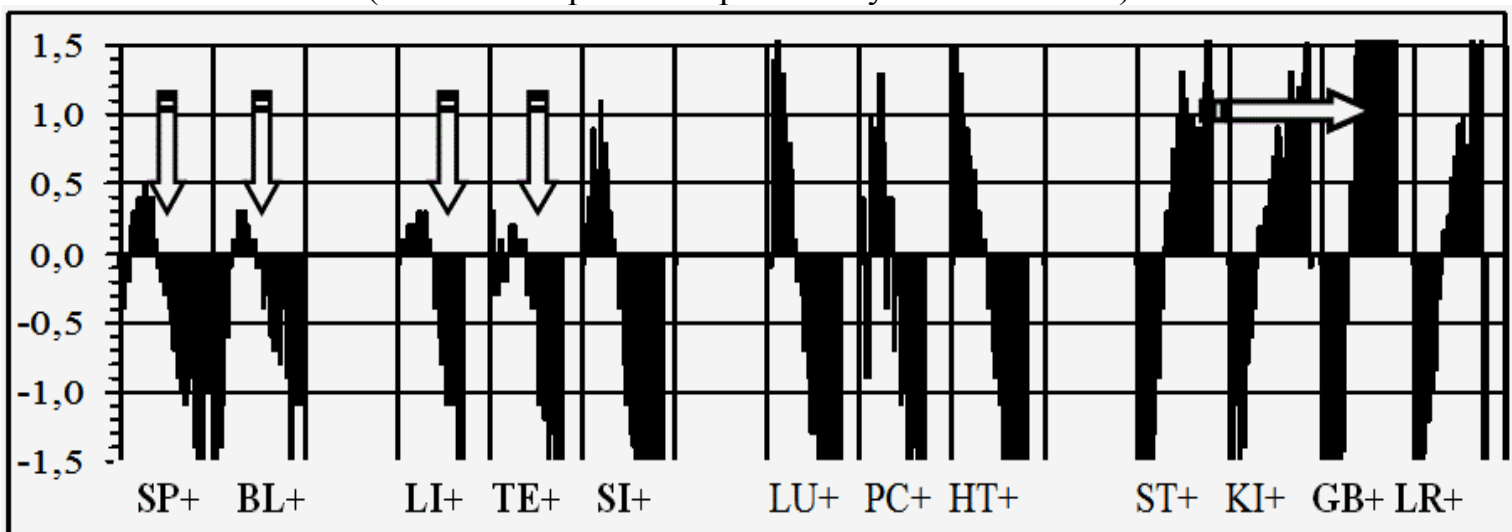


Fig. 6c Paradoxical reactions **GB** (Gall bladder) to excitation of other channels
(Their development is specified by vertical arrows).

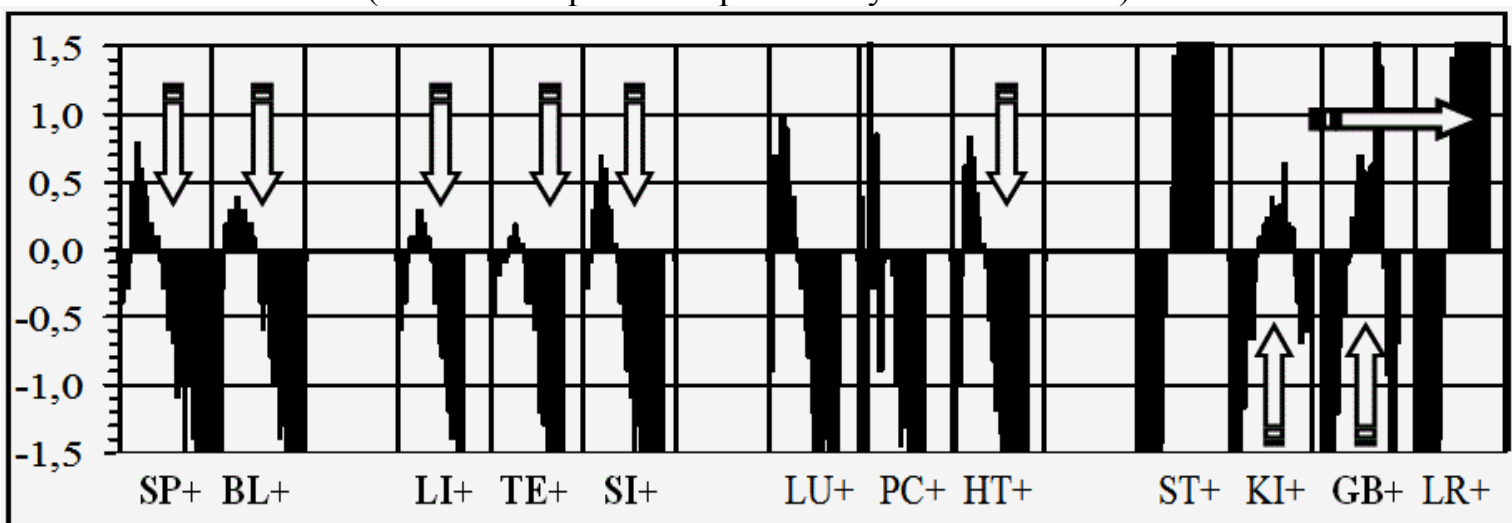


Fig. 6d Paradoxical reactions **LR** (Liver) to excitation of other channels
(Their development is specified by vertical arrows).

Doesn't cause doubts that PR form an opposite orientation of activity of dependent functional systems (and complexes). Obvious there is their value in biophysical support of a dynamic constancy is functional-vegetative balance. Following preliminary conclusions thus arise:

- 1) PR are the starting mechanism of biophysical regulation of functional balance;
- 2) any functional system it is paradoxical reacts on strong excitation (or oppression) dependent systems;
- 3) each functional system has the "an attention and control zone" with which development of its paradoxical reaction begins;
- 4) any power information influence on an organism should provide development of system paradoxical reactions.

There is a question on topographical localization of paradoxical reactions in system traditional "the Big circle of the directed power circulation"?

It is necessary to notice that according to east theory (the Big circle of power circulation) excitation of any channel should be accompanied by oppression previous and excitation of the subsequent (and, on the contrary). But the traditional medicine didn't know about a reality of paradoxical reactions ...

It has appeared that in each group of three consistently located channels development of paradoxical reactions (fig. 7) is observed. Therefore there are all bases to assert that traditional representation about consecutive power circulation on the Big circle has no biophysical support that besides testifies to aspiration of system to dynamic balance (a vegetative homeostasis)!

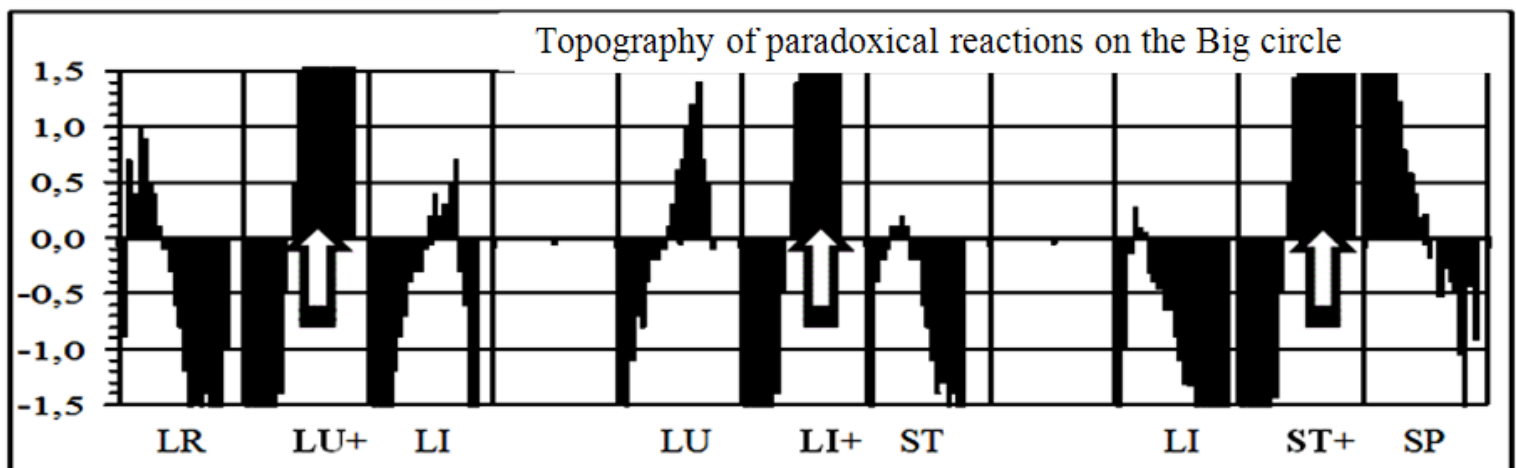


Fig. 7a Excitation of systems LU, LI, ST supervise paradoxical reactions

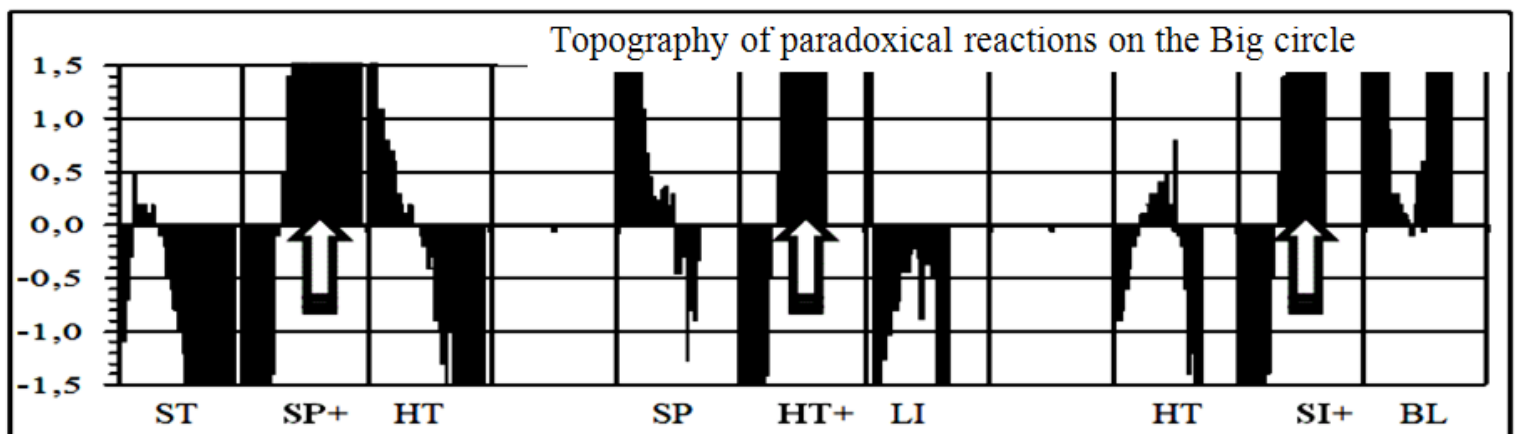


Fig.7b Excitation of systems SP, HT, SI supervise paradoxical reactions

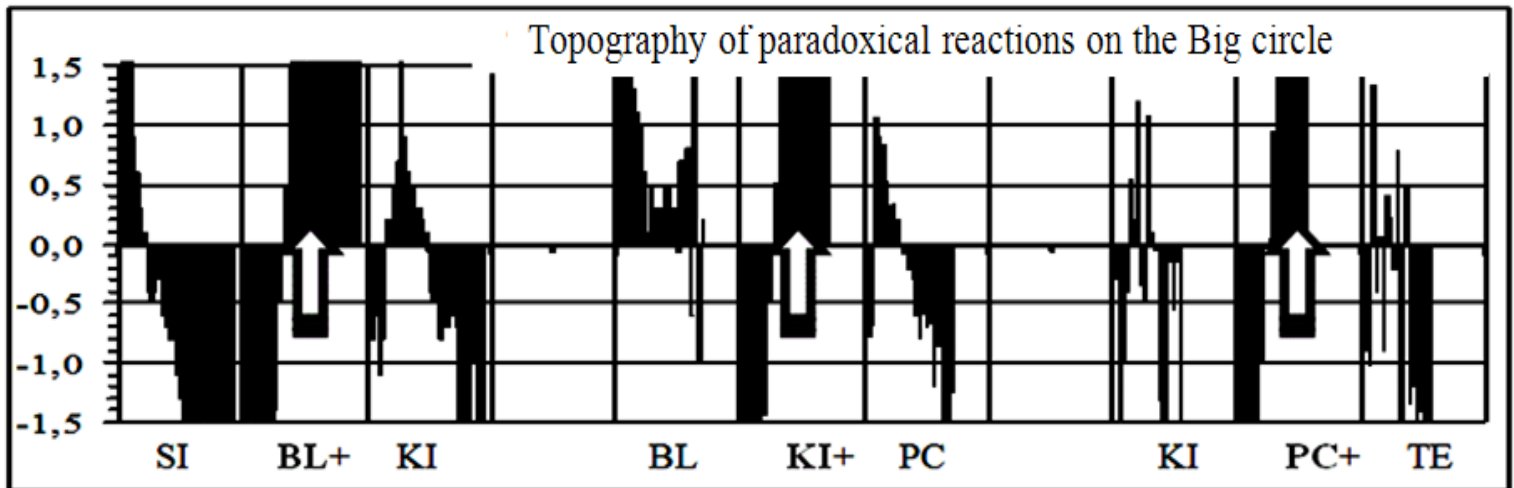


Fig. 7c Excitation of systems BL, KI, PC supervise paradoxical reactions

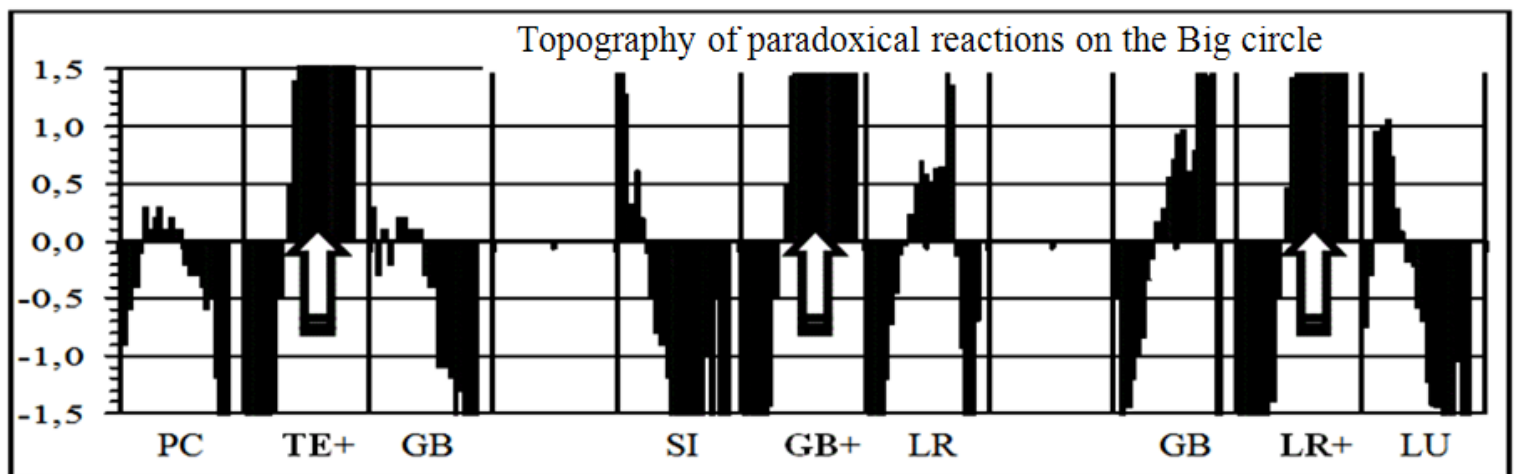


Fig. 7d Excitation of systems TE, GB, LR supervise paradoxical reactions

Let's consider now, on what paradoxical reactions of functional systems of separate complexes – that is a zone of their control and influence are directed.

ZONE OF CONTROL OF PARADOXICAL REACTIONS OF FIRST COMPLEX $\Phi K-1$ (SP-BL)

PR functional systems of the first functional complex are directed on regulation of activity of the fourth (KI-GB-LR) and, partially, the second (SI) complexes (fig. 8).

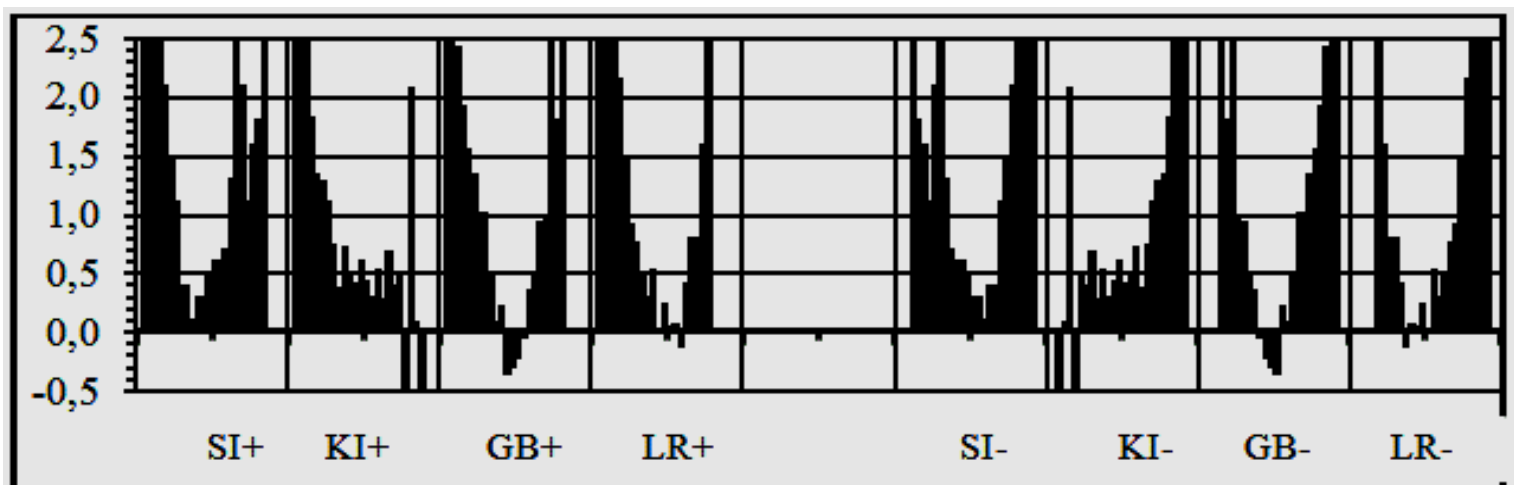


Fig. 8a Paradoxical reactions SP to excitation and oppression of separate systems

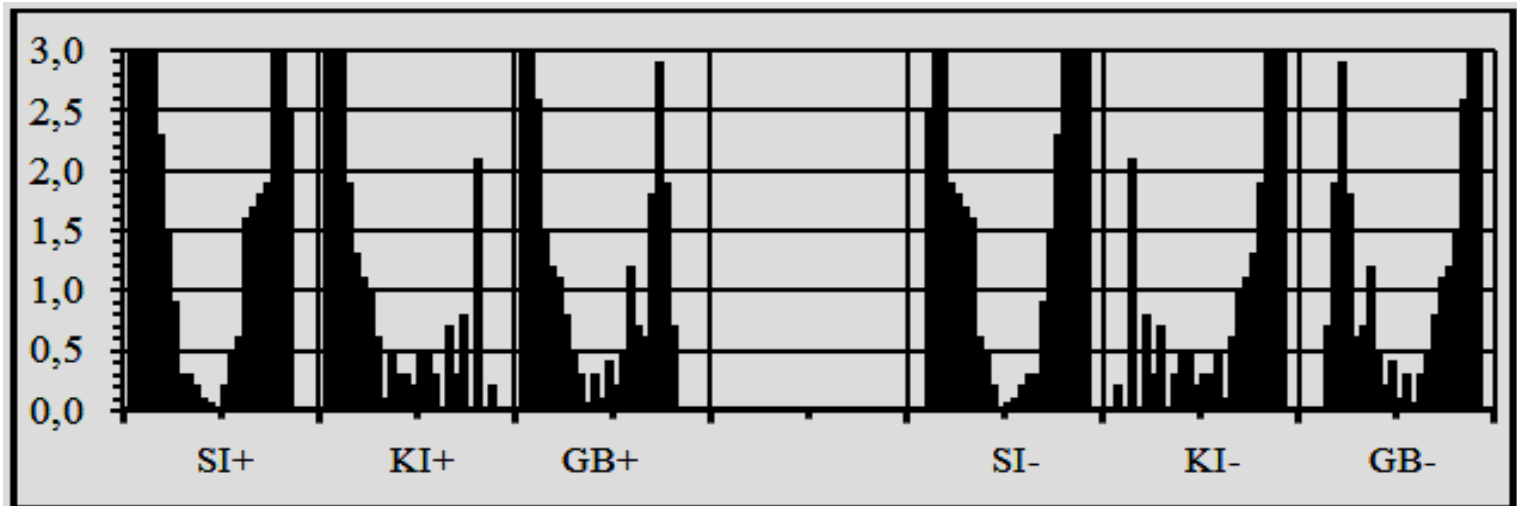


Fig. 8b Paradoxical reactions BL to excitation and oppression of separate systems

ZONE OF CONTROL OF PARADOXICAL REACTIONS OF SECOND COMPLEX FK-2 (LI-TE-SI)

PR functional systems of the second functional complex are directed on regulation of activity of the third (LI-HT) and the fourth (ST-KI) complexes (fig. 9).

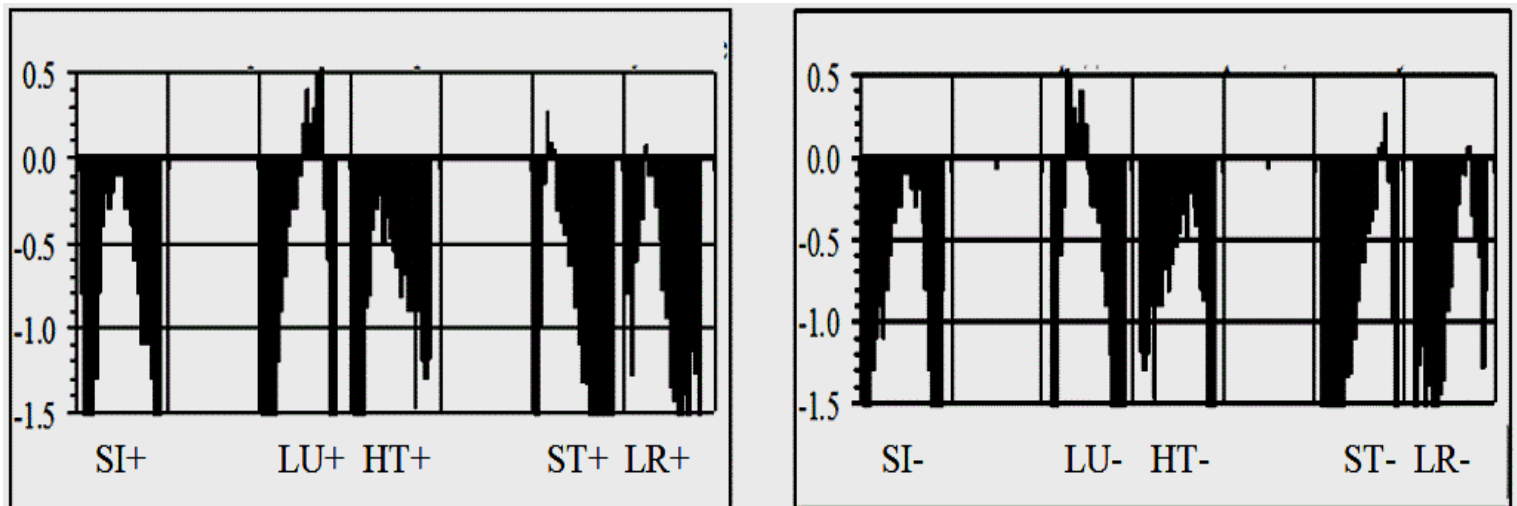


Fig. 9a Paradoxical reactions LI on excitation and oppression of separate systems

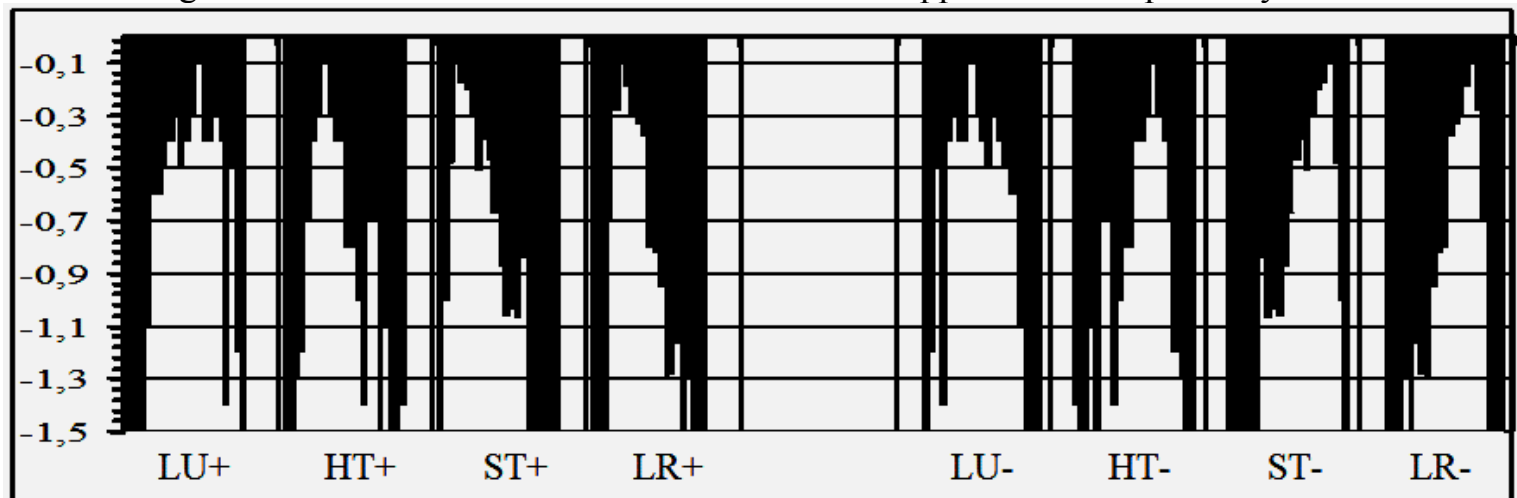


Fig. 9b Paradoxical reactions TE to excitation and oppression of separate systems

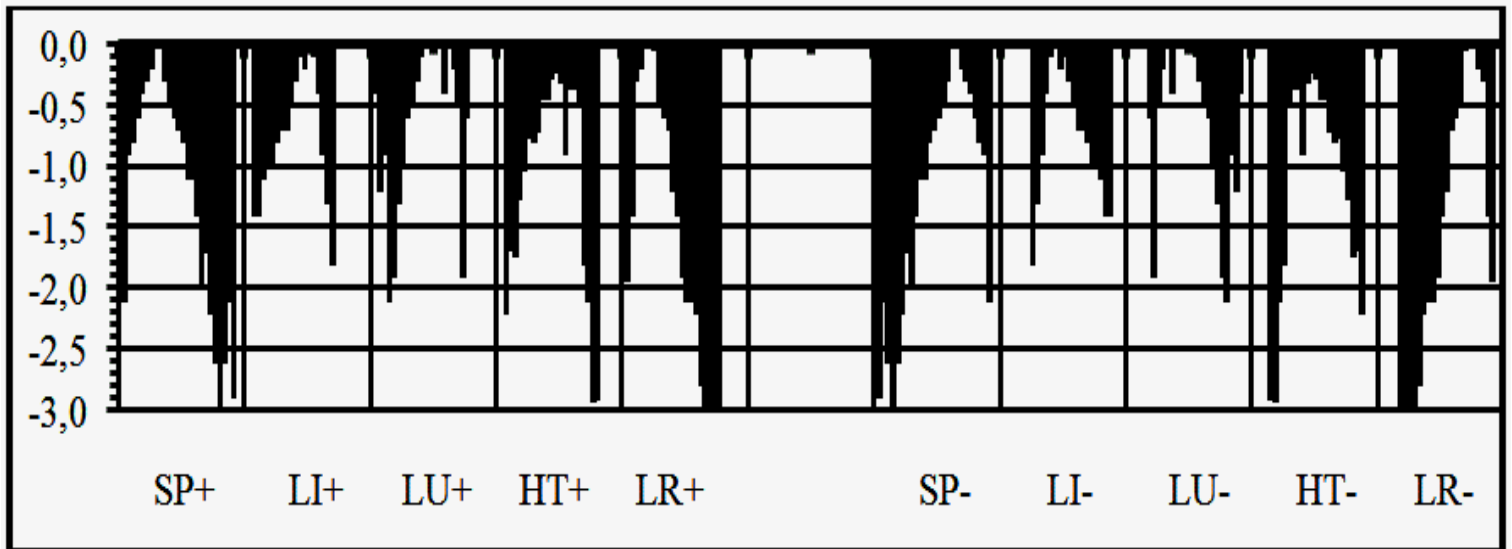


Fig. 9c Paradoxical reactions SI to excitation and oppression of separate systems

ZONE OF CONTROL OF PARADOXICAL REACTIONS OF THIRD COMPLEX FK-3 (LU-PC-HT)

Paradoxical reactions of functional systems of the third functional complex are directed on regulation of activity of the second (GI-TR-IG) a complex (fig. 10).

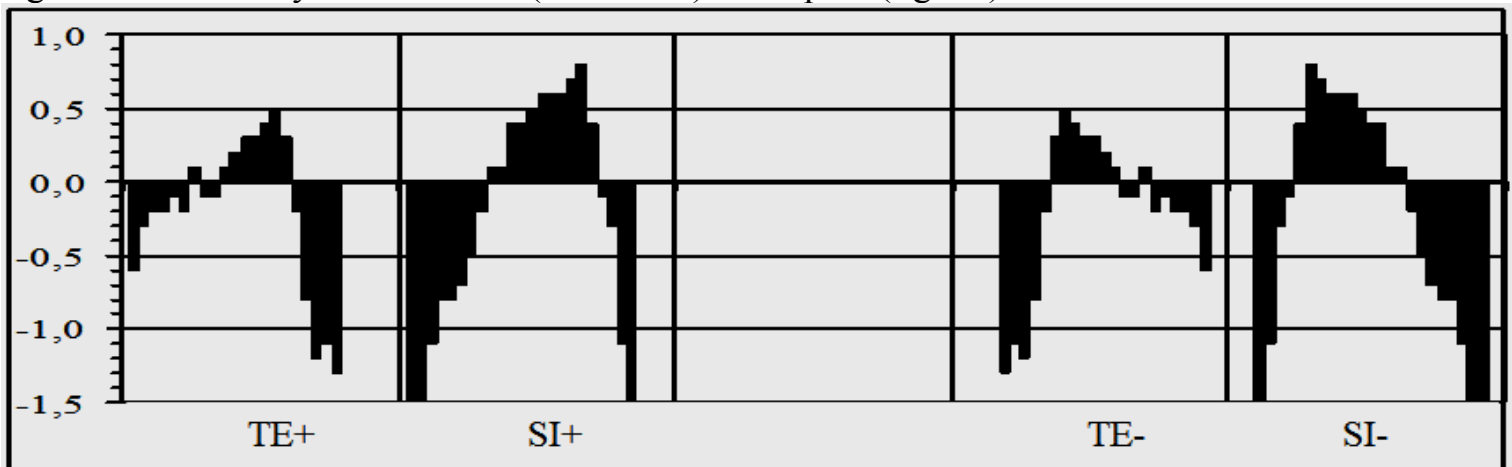


Fig. 10a Paradoxical reactions LU to excitation and oppression of separate systems

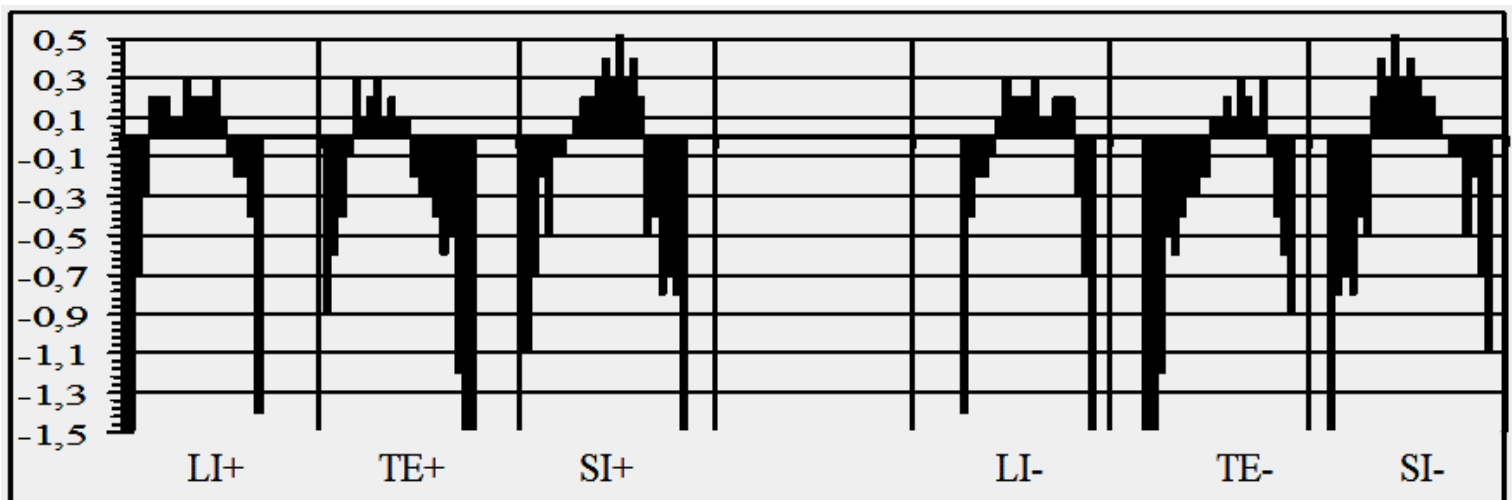


Fig. 10b Paradoxical reactions PC to excitation and oppression of separate systems

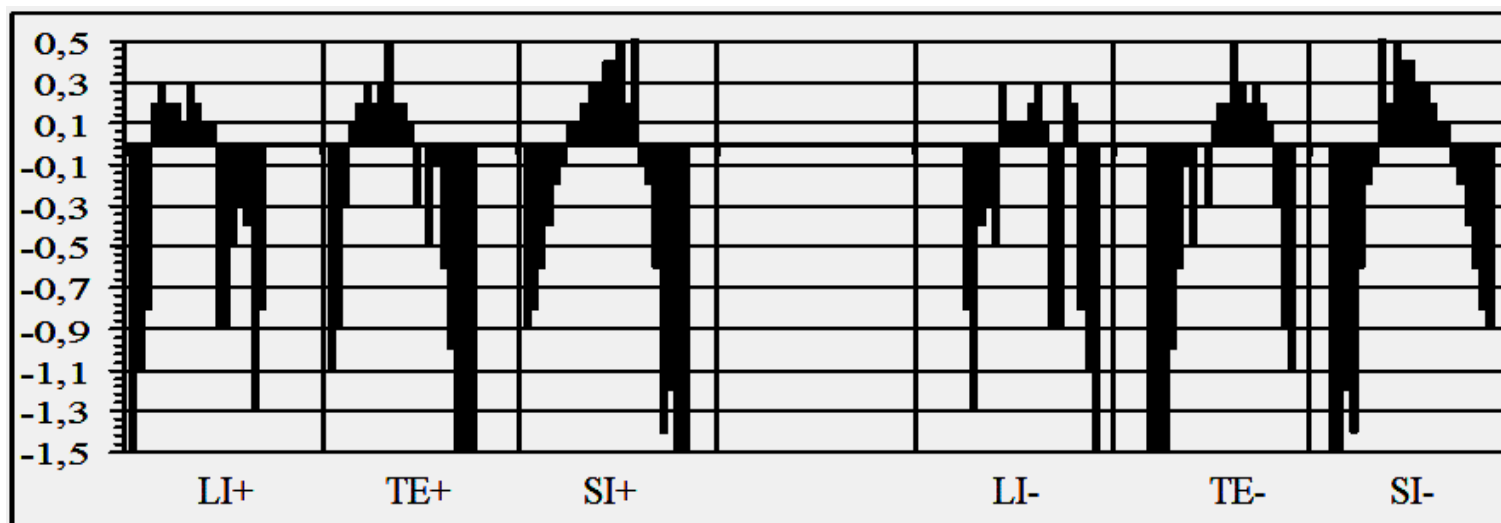


Fig. 10c Paradoxical reactions **HT** to excitation and oppression of separate systems

ZONE OF CONTROL OF PARADOXICAL REACTIONS OF FOURTH COMPLEX FK-4 (ST-KI-GB-LR)

Paradoxical reactions of functional systems of the fourth complex are directed on regulation of activity of almost all complexes (fig. 11).

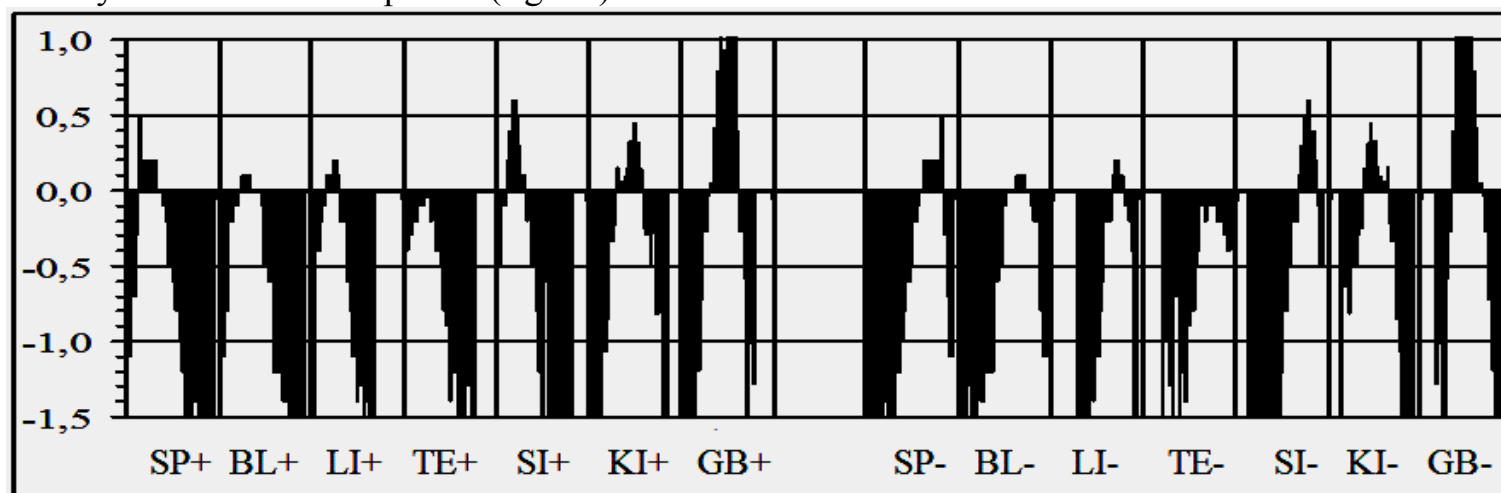


Fig. 11a Paradoxical reactions **ST** to excitation and oppression of separate systems

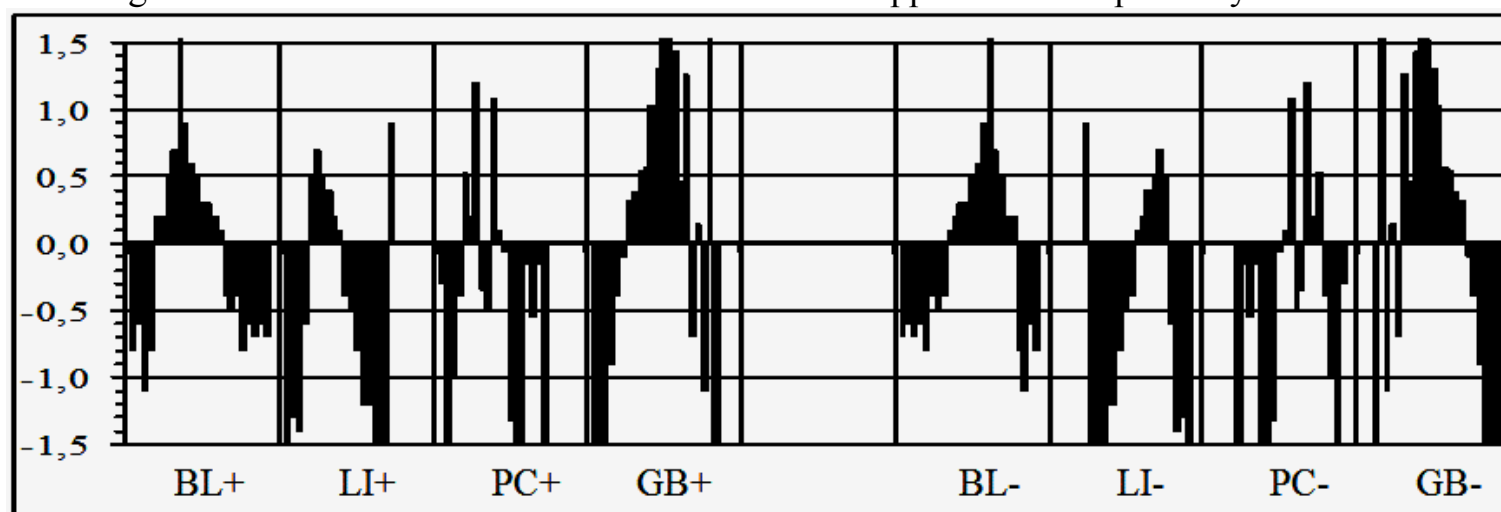


Fig. 11b Paradoxical reactions **KI** to excitation and oppression of separate systems

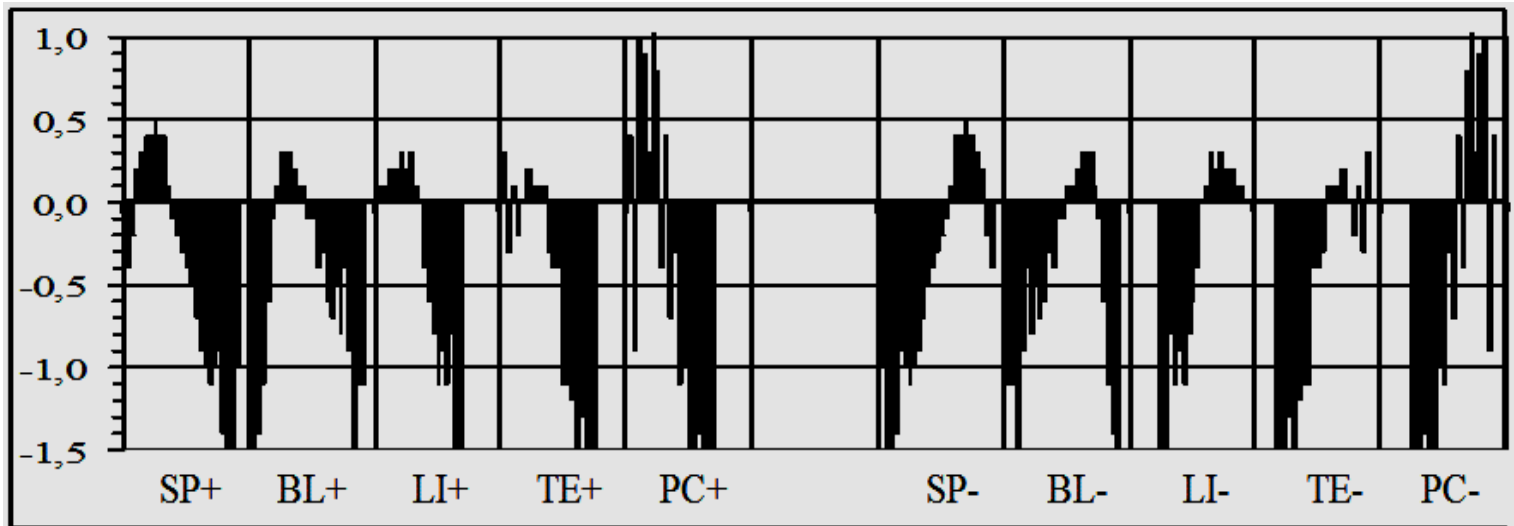


Fig. 11c Paradoxical reactions **GB** to excitation and oppression of separate systems

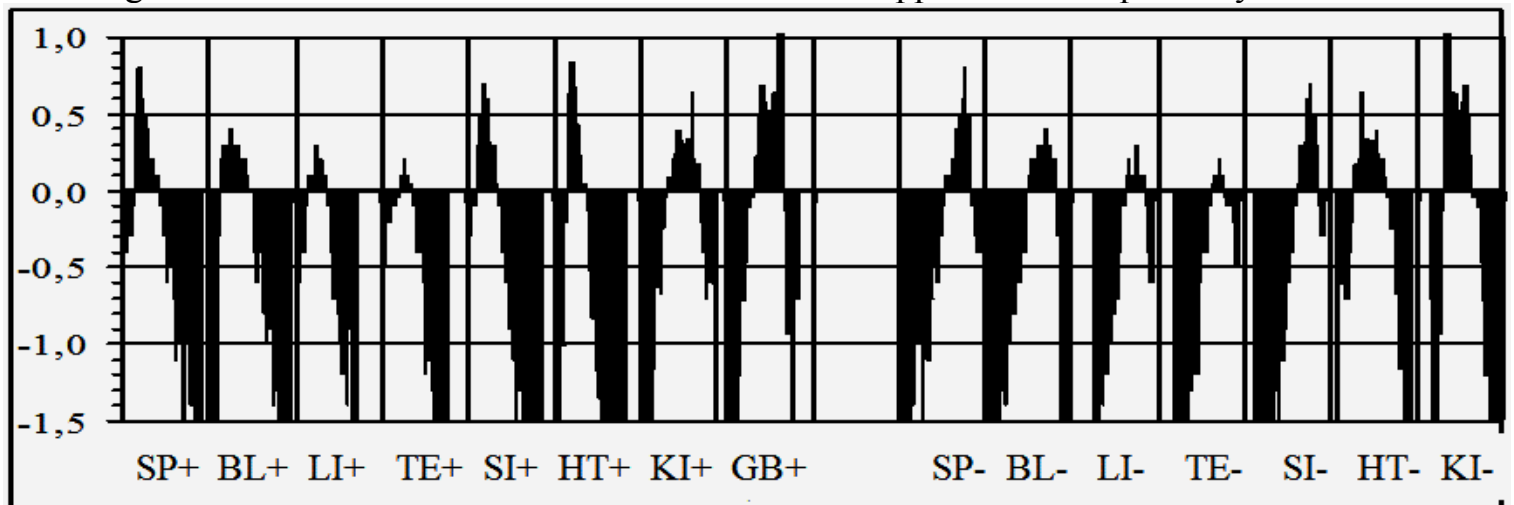


Fig. 11d Paradoxical reactions **LR** to excitation and oppression of separate systems

Thus attracts attention the following.

1) Almost all functional systems FK-4 react To change of functional activity FK-1 (SP-BL) paradoxical reactions.

2) Before regulation of biophysical activity FK-2 (LI-TER-SI) paradoxical reactions from party KI (react to change of activity LI), GB and LR (react on LI-TE) concern. Thus the greatest activity inherent in systems ST and LR which completely supervise the second complex.

3) Before regulation of biophysical activity FK-3 (LU-PC-HT) paradoxical reactions from party KI and GB (react to activity PC) and LR (reacts to activity HT) concern.

4) It is interesting that its own systems take part in regulation of functional activity FK-4. So, ST and KR it is paradoxical react to excitation (oppression) KI-GB, and KI on GB.

The biophysical reality of functional complexes has paid our attention to races-positions of their systems on the Big circle (fig. 12a). Yes, the topography of systems has coincided with topography of their traditional arrangement. But, as it has appeared, paradoxical (\cup , \cap) reactions of each system arise not somewhere, and on a joint between separate functional complexes (fig. 12b)!

From this it follows that revealed phenomenon PR unequivocally specifies in their role in correction of dynamic balance between separate functional complexes!

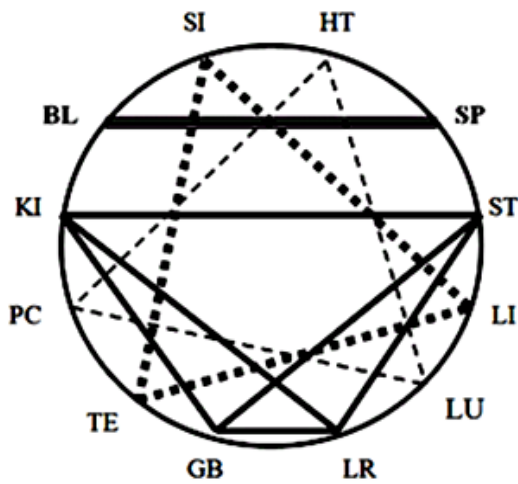


Fig.12a

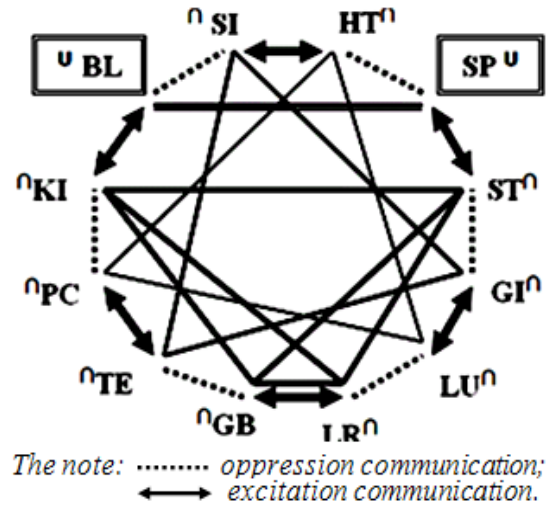


Fig.12b

VALUE OF PARADOXICAL REACTIONS, AS ZONES OF THE BIOPHYSICAL CONFLICT.

It is possible to illustrate biophysical mission of paradoxical reactions with following examples (fig. 13).

1) **Excitation of functional system SP** is accompanied by oppression FK LI-TE-SI, LU-PC-HT and ST-KI-GB-LR. Thus dynamics of dependent activity SI, GB-ST has the expressed paradoxical character: they are raised together with SP to a zone of its functional norm and oppressed after its excess. There is a question on the biophysical logic of the first phase of paradoxical reactions SI, GB-ST (initial excitation).

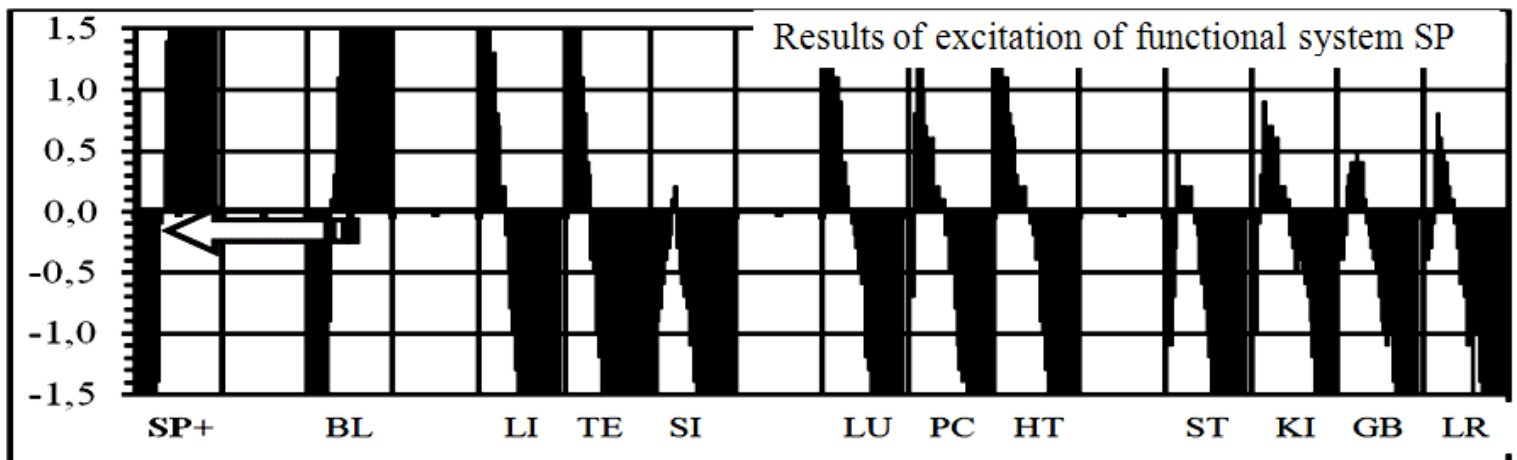


Fig. 13a Results of excitation of functional system SP

2) We will consider now influence FS SI within its initial excitation at SP (+). Growth of activity SI is accompanied by opposite reactions: oppression SP and excitation LI-TE and LU-PC-HT. It is indicative that in the present state of affairs reaction of functional systems ST-KI-GB-LR again becomes paradoxical (constraining, possibly, aggression SI...).

3) We will consider now influence of functional system GB within its initial excitation at SP (+). Growth of activity GB also is accompanied by opposite reactions: oppression SP and excitation ST-KI-LR. It is indicative that in the present state of affairs reaction of functional systems LI-TE and LU-PC-HT again becomes paradoxical (constraining, possibly, aggression GB...).

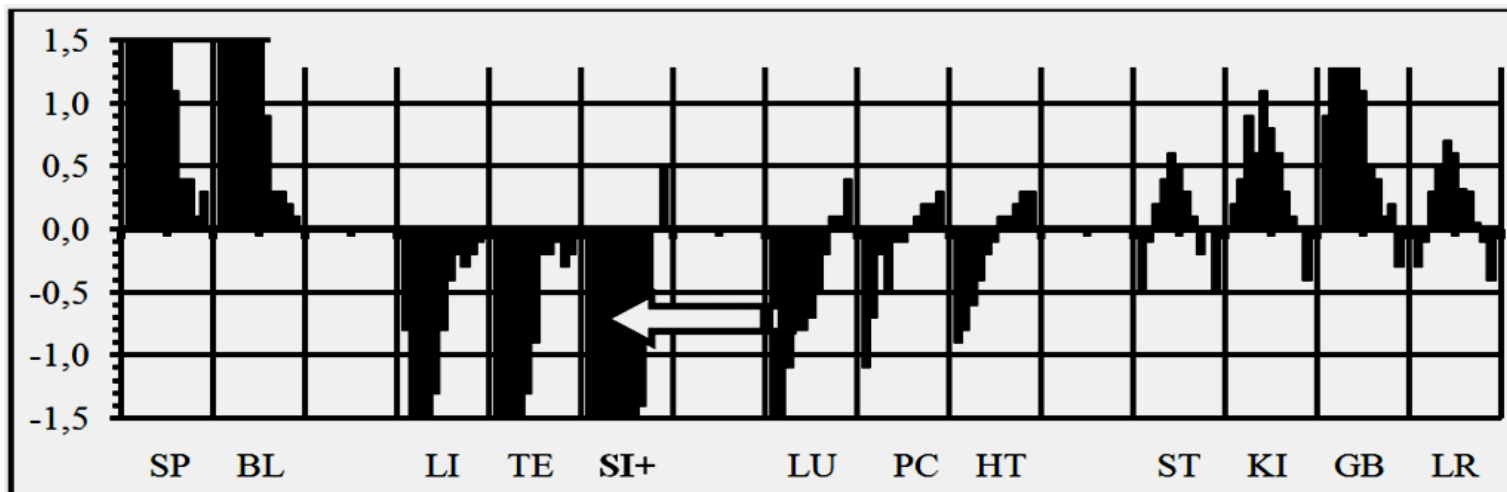


Fig. 13b Results of paradoxical reaction SI within its excitation at SP +.

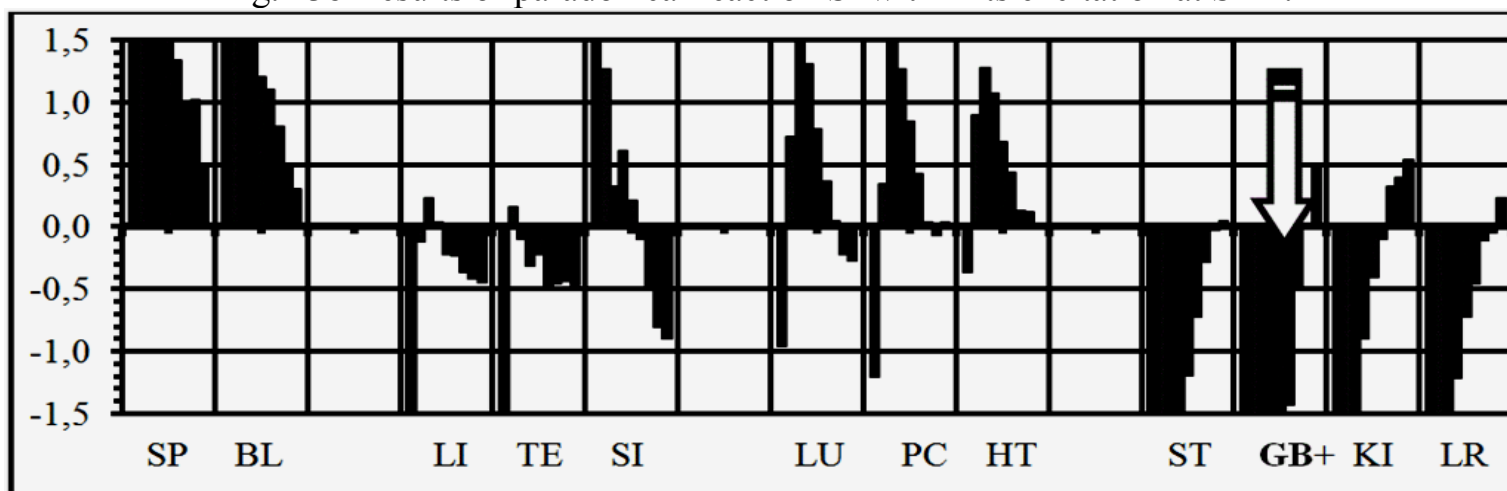


Fig. 13c Results of paradoxical reaction GB within its excitation at RP (+)

4) We will consider now influence of functional system ST within its initial excitation at SP (+). Growth of activity ST also is accompanied by opposite reactions: oppression SP and excitation KI-GB-LR. It is indicative that in the present state of affairs reaction of functional systems LI-TE and KU-PC-HT again becomes paradoxical (constraining, possibly, aggression ST...).

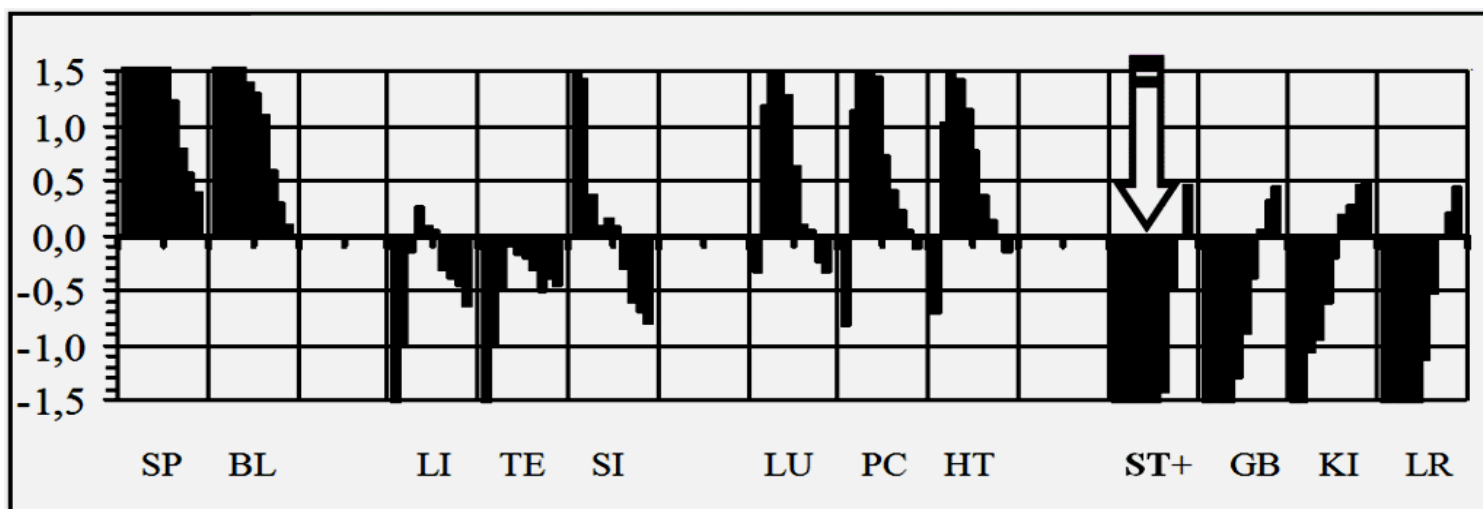


Рис.13d Результаты парадоксальной реакции ST в пределах её возбуждения при SP(+)

So, the phenomenon of paradoxical reactions has appeared a biophysical reality which any functional system (fig. 14a possesses). It is revealed four characteristic types of paradoxical reactions (fig. 14b): oppression to a zone of norm with the subsequent excitation (SP-BL); excitation to a zone of norm with the subsequent oppression (LI-TE-SI); insignificant excess of a zone of norm with the subsequent oppression (LU-PC-HT, GB) and considerable excess of a zone of norm with the ambassador-blowing oppression ST-KI-LR).

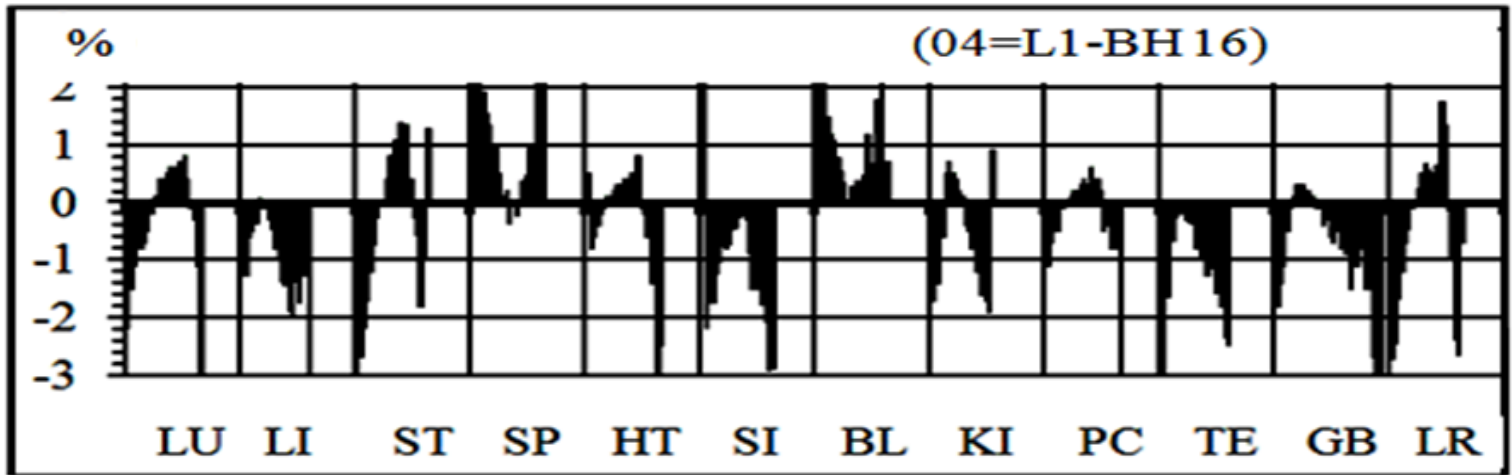


Fig. 14a Types of system paradoxical reactions

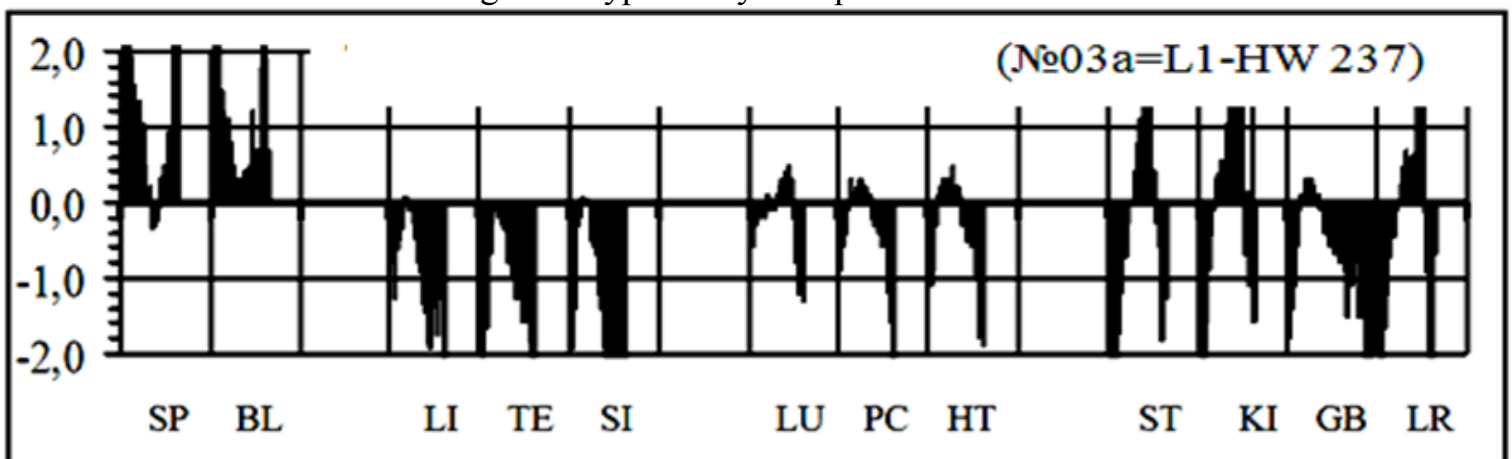


Fig. 14b Biophysical types of paradoxical reactions

There is a next reasonable question, and what relation the open power information system to a vegetative homeostasis has?

The question serious also demands detailed consideration ...

Conclusions.

1. The phenomenon of paradoxical reactions arises in any system in zones of the biophysical conflict on a joint of functional complexes.
2. The reality of a phenomenon of paradoxical reactions contradicts consecutive power circulation on a traditional Big circle.
3. Paradoxical reactions act in a role of starting mechanisms of biophysical control and correction of functional balance ...
4. Identification of system paradoxical dependence specifies in necessity of detailed studying of the revealed biophysical phenomenon.

The list of references.

1. Макац В.Г. Биогальванизация в физио- и рефлексотерапии // Винница, 1992. 236с.
2. Нагайчук В.И., Макац В.Г., Повстяной Н.Е. Биогальванизация в комбустиологии // Винница, 1993, 330с.
3. Макац В.Г., Подколзин А.А., Донцов В.И., Гунько П.М. Старение и долголетие. Теория и практика биоактивации // Винница, 1995, 253с.
4. Макац В.Г., Нагайчук В.И., Макац Д.В., Макац Д.В. Основы биоактивационной медицины (открыта функционально-энергетическая система биологических объектов) // Винница. 2001. 315с. ISBN 966-7993-16-7 (на украинском языке)
5. Макац В.Г., Макац Е.Ф., Макац Д.В., Макац Д.В. Энергоинформационная система человека (ошибки и реальность китайской Чжень-цзю терапии). // Винница. 2007. Том 1. 367с. ISBN 966-8300-27-0 966-8300-26-2 (на украинском языке).
6. Макац В.Г., Макац Е.Ф., Макац Д.В., Макац Д.В. Энергоинформационная система человека (биодиагностика и реабилитация вегетативных нарушений). // Винница. 2007. Том 2. 199с. ISBN 966-8300-27-0 966-8300-28-9 (на украинском языке).
7. Макац В.Г., Макац Е.Ф., Макац Д.В., Макац Д.В. Энергоинформационная система человека (вегетативная биодиагностика, основы функционально-экологической экспертизы). // Винница. 2009. Том 3. 175с. ISBN 978-966-2932-80-5 (на украинском языке).
8. Макац В.Г., Макац Д.В., Макац Е.Ф., Макац Д.В. Тайны китайской иглотерапии (ошибки, реальность, проблемы) // Винница. 2009. 450с. ISBN 978-966-2932-80-5 (на русском языке).
9. Макац В.Г., Макац Е.Ф., Макац Д.В., Макац А.Д. Функциональная диагностика и коррекция вегетативных нарушений у детей // Винница.- 2011.- 151 с.- ISBN 978-617-535-010-2.
10. Макац В. Г., Макац Д. В., Макац Е. Ф., Макац Д. В. Энергоинформационная система человека как биофизическая основа вегетативной Чжень-цзю терапии. Лекция 1. Биофизическая идентификация энергоинформационной системы человека. // РФ, Медиздат, Рефлексотерапевт, № 2-3/2011, с.4-18.
11. Макац В. Г., Макац Д. В., Макац Е. Ф., Макац Д. В. Энергоинформационная система человека как биофизическая основа вегетативной Чжень-цзю терапии. Лекция 2. Энергоинформационная система человека как биофизическая реальность. // РФ, Медиздат, Рефлексотерапевт, № 4-5/2011, с.21-36.
12. Макац В. Г., Макац Д. В., Макац Е. Ф., Макац Д. В. Энергоинформационная система человека как биофизическая основа вегетативной Чжень-цзю терапии. Лекция 3. Традиционные гипотетические основы вегетативной Чжень-цзю терапии. // РФ, Медиздат, Рефлексотерапевт, № 6/2011, с.4-14.
13. Макац В. Г., Макац Д. В., Макац Е. Ф., Макац Д. В. Энергоинформационная система человека как биофизическая основа вегетативной Чжень-цзю терапии. Лекция 4. Функционально-вегетативная система человека как биофизическая основа гомеостаза. // РФ, Медиздат, Рефлексотерапевт, № 6/2011, с.4-14.
14. Макац В. Г., Макац Д. В., Макац Е. Ф., Макац Д. В. Энергоинформационная система человека как биофизическая основа вегетативной Чжень-цзю терапии. Лекция 5. Биофизическая реальность прогноза вегетативных расстройств. Ошибки традиционной китайской терапии. // РФ, Медиздат, Рефлексотерапевт, № 11/2011, с.3-18.
15. Макац В. Г., Макац Д. В., Макац Е. Ф., Макац Д. В. Энергоинформационная система чело

века как биофизическая основа вегетативной Чжень-цзю терапии. Лекция 6. Современные проблемы диагностики вегетативного гомеостаза. Принципиальная оригинальность нового функционального направления (часть 1). // РФ, Медиздат, Рефлексотерапевт, № 12/2011, с.3-21.

16. Makats V., Makats D., Makats E., Makats D. Power-informational system of the person (biophysical basics of Chinese Chzhen-tszju Therapy). // Vinnitsa. 2005. Part 1. 212P. ISBN 966-821-3238 (на английском языке).

17. Makac W., Godlewski A., Szlenskowy W. Zdrowie decydenta // Decydent, Online edition, nr 104, lipiec-2010 http://www.deczydent.pl/archiwum/wydanie_120/zdrowie-decydenta_1181.html