



Introduction to Dynamic Mathematics: Zprt-elements and Their Applications

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Abstract

There is a need to develop an instrumental mathematical base for new technologies. The task of the work is to create new approaches for this by introducing new concepts and methods. Our mathematics is unusual for a mathematician, because here the fulcrum is the action, and not the result of the action as in classical mathematics. Therefore, our mathematics is adapted not only to obtain results, but also to directly control actions, which will certainly show its benefits on a fundamentally new type of neural networks with directly parallel calculations, for which it was created. Any action has much greater potential than its result. Significance of the article: in a new qualitatively different approach to the study of complex processes through new mathematical, hierarchical, dynamic structures, in particular those processes that are dealt with by Synergetics. The significance of our article is in the formation of the presumptive mathematical structure of subtle energies, this is being done for the first time in science, and the presumptive classification of the mathematical structures of subtle energies for the first time. The experiments of the 2022 Nobel laureates Asle Ahlen, John Clauser, Anton Zeilinger and the experiments in chemistry Nazhipa Valitov eloquently demonstrate that we are right and that these studies are necessary. Be that as it may, we created classes of new mathematical structures, new mathematical singularities, i.e., made a contribution to the development of mathematics. We construct models of singularities for singular work with them through neural networks - analogues of the human CNS. Ordinary regular work with them in ordinary science is fundamentally unable to realize their capabilities. Therefore, singular science realized on a neural network - an analogue of the human CNS - will be much more natural. Here are considered paradoxical singularities (singularities of disintegration & synthesis), self-type singularities.

Keywords: Hierarchical Structure (Dynamic Operator), Zprt-Elements, tprZ - Elements, Paradoxical Singularities (Singularities of Disintegration & Synthesis), Self-Type Singularities, Self-Type Structures.

1. Introduction

The article task: to understand hierarchy of energies in the Universe and the principles of functioning of living energy (living organism, in particular, human, subtle energies), and then using these principles to "construct" artificial living energies (let's call them pseudo-living energies). We transform all kinds of uncertainties into new singularities and use them to describe uncertain energies. Here are considered paradoxical singularities (singularities of disintegration & synthesis), self-type singularities.

2. Zprt – elements, self-type Zprt-structures

2.1 Zprt – elements, self-type Zprt-structures

Paradox I: more singular than all singularities, it turns out: more singular than itself, and this is self by

singularity(*decignation* – *singelfA*).

Paradox II: more paradoxical than all paradoxes, it turns out: more paradoxical than itself, and this is self by paradoxicality(*decignation* – *parelfA*).

May consider the next hierarchy:

$$\left(\begin{array}{c} \text{parelf}A(\text{decignation} - \overset{\text{|||}}{\bar{A}}) \\ \text{singelf}A(\text{decignation} - \overset{\text{|||}}{\bar{A}}) \\ \text{subtle energy of uncertainty } A \text{ paradoxical upper level } (\text{decignation} - \overset{\text{|||}}{\bar{A}}) \\ \text{subtle energy of uncertainty } A \text{ paradoxical mid - level } \left(\text{decignation} - \overset{\text{|||}}{\bar{A}} \right) \\ \text{subtle energy of } ||| \\ \text{subtle energy of uncertainty } A \text{ upper level } (\text{decignation} - \overset{\wedge}{\bar{A}}) \\ \text{subtle energy of uncertainty human } A \text{ mid - level } \left(\text{decignation} - \overset{\bar{\bar{A}}}{\bar{A}} \right) \\ \text{subtle energy of uncertainty another living organism } A \text{ mid - level } (\text{decignation} - \bar{\bar{A}}) \\ \text{the raw energy of an uncertainty } A(\text{decignation} - \underline{A}) \\ \text{ordinary energy exhibited by an uncertainty } A(\text{decignation} - \underline{A}) \\ \vdots \end{array} \right)$$

(A.0.1*)

$\bar{\bar{A}}$ leads to the interpretation of our world in a significantly narrowed and detailed form, which creates the illusion of another world. Access to it is not safe, since it can lead to the collapse of the self of a living organism and its death, but despite this, it is practiced by some people.

Let's consider the vector of energy levels of a non-living object A:

$$\left(\begin{array}{c} \text{subtle energy of object } A \text{ upper level } (\text{decignation} - \overset{\wedge}{\bar{A}}) \\ \text{subtle energy of object } A \text{ mid - level } (\text{decignation} - \bar{\bar{A}}) \\ \text{the raw energy of an object } A - \text{ its objectivity}(\text{decignation} - A) \\ \text{ordinary energy exhibited by an object } A(\text{decignation} - \underline{A}) \end{array} \right)$$

Let's consider the vector of energy levels of a living object A:

$$\left(\begin{array}{c}
 \dots \\
 \text{parelf}A(\text{decignation} - \overset{\sim}{\bar{A}}) \\
 \text{singelf}A(\text{decignation} - \overset{\sim}{\bar{A}}) \\
 \text{subtle energy of object } A \text{ paradoxical upper level } (\text{decignation} - \overset{\sim}{\bar{A}}) \\
 \text{subtle energy of object } A \text{ paradoxical mid - level } \left(\text{decignation} - \overset{\sim}{\bar{A}} \right) \\
 \text{subtle energy of object } A \text{ upper level } (\text{decignation} - \overset{\sim}{\bar{A}}) \\
 \text{subtle energy of human } A \text{ mid - level } \left(\text{decignation} - \overset{\sim}{\bar{A}} \right) \\
 \text{subtle energy of another living organism } A \text{ mid - level } (\text{decignation} - \overset{\sim}{\bar{A}}) \\
 \text{the raw energy of an object } A - \text{ its objectivity}(\text{decignation} - A) \\
 \text{ordinary energy exhibited by an object } A(\text{decignation} - \underline{A}) \\
 \square
 \end{array} \right) \quad (\text{A.0.1}^*)$$

Let's consider the vector of energy levels of an action A [14]:S

$$\left(\begin{array}{c}
 \text{parelf}A(\text{decignation} - \overset{\sim}{\bar{A}}) \\
 \text{singelf}A(\text{decignation} - \overset{\sim}{\bar{A}}) \\
 \text{subtle energy of action } A \text{ paradoxical upper level } (\text{decignation} - \overset{\sim}{\bar{A}}) \\
 \text{subtle energy of action } A \text{ paradoxical mid - level } \left(\text{decignation} - \overset{\sim}{\bar{A}} \right) \\
 \text{subtle energy of } ||| \\
 \text{subtle energy of action } A \text{ upper level } (\text{decignation} - \overset{\sim}{\bar{A}}) \\
 \text{subtle energy of action } A \text{ mid}_2 - \text{level } \left(\text{decignation} - \overset{\sim}{\bar{A}} \right) \\
 \text{subtle energy of action } A \text{ mid}_1 - \text{level } (\text{decignation} - \overset{\sim}{\bar{A}}) \\
 \text{the raw energy of an action } A(\text{decignation} - A) \\
 \text{ordinary energy exhibited by an action } A(\text{decignation} - \underline{A}) \\
 \square
 \end{array} \right) \quad (\text{A.1}^*)$$

May consider the induction from clotting. The result of it is the new self-type of a higher level than clotting result.

$$\left(\begin{array}{c}
 \dots \\
 \text{parelf}A(\text{decignation} - \overset{\text{}}{\bar{A}}) \\
 \text{singelf}A(\text{decignation} - \overset{\text{}}{\bar{A}}) \\
 \text{subtle energy of induction } A \text{ paradoxical upper level } (\text{decignation} - \overset{\text{}}{\bar{A}}) \\
 \text{subtle energy of induction } A \text{ paradoxical mid - level } (\text{decignation} - \overset{\text{}}{\bar{A}}) \\
 \text{subtle energy of } ||| \\
 \text{subtle energy of induction } A \text{ upper level } (\text{decignation} - \overset{\text{}}{\bar{A}}) \\
 \text{subtle energy of induction } A \text{ mid}_2 \text{ - level } (\text{decignation} - \overset{\text{}}{\bar{A}}) \\
 \text{subtle energy of induction } A \text{ mid}_1 \text{ - level } (\text{decignation} - \overset{\text{}}{\bar{A}}) \\
 \text{the raw energy of an induction } A(\text{decignation} - \overset{\text{}}{\bar{A}}) \\
 \text{ordinary energy exhibited by an induction } A(\text{decignation} - \overset{\text{}}{\bar{A}}) \\
 \dots
 \end{array} \right) \quad (\text{A.2}^*)$$

Remark 1

As *an action A* we can take a clotting of energies into more subtle ones (accumulation). Let us introduce the *action A*

notations of Rprt *action A* [18] by $\overset{1}{B}\text{self}A$,

Rprt $\overset{B}{\text{action } A}$ by $\overset{2}{B}\text{self}A$, Rprt $\overset{\text{action } A}{\text{action } A^{-1}}$ (or Rprt $\overset{\text{action } A}{\text{action } - A}$) by $\overset{3}{B}\text{paself}A$, Rprt $\overset{\text{action } A^{-1}}{\text{action } A}$

(or Rprt $\overset{\text{action } - A}{\text{action } A}$) by $\overset{-3}{B}\text{paself}A$, Rprt $\overset{B}{\text{action } A^{-1}}$ (or

Rprt $\overset{B}{\text{action } - A}$) by $\overset{-2}{B}\text{paself}A$, Rprt $\overset{B}{\text{action } A^{-1}}$ (or

Rprt $\overset{B}{\text{action } - A}$) by $\overset{2}{B}\text{paself}A$, Rprt $\overset{\text{action } A^{-1}}{\text{action } A}$ (or Rprt $\overset{\text{action } - A}{\text{action } A}$) by $\overset{1}{B}\text{paself}A$ Rprt

$\overset{\text{action } A}{B}$ (or Rprt $\overset{\text{action } A}{B}$) by $\overset{-1}{B}\text{paself}A$. Then (A.1*):

Af(∞ , self((A.1**))), pAf(∞ , paself((A.1**))), Af(self((A.1**)), self((A.1**))), pAf(paself((A.1**)), paself((A.1**))) etc. May transform of uncertainty $\sin(0^*\infty)$ into new singularity and use it to describe uncertain energies.

We consider dynamic operator

$$\begin{array}{c}
 C \\
 \uparrow \\
 \bar{P} \\
 \uparrow \\
 \bar{S} \\
 \uparrow \\
 \hat{R} \\
 \uparrow \\
 \bar{G} \\
 \uparrow \\
 \hat{O} \\
 \uparrow \\
 \bar{U} \\
 \uparrow \\
 \bar{V} \\
 \dots
 \end{array}
 \begin{array}{c}
 \dots \\
 \bar{W} \\
 \uparrow \\
 \bar{J} \\
 \uparrow \\
 \hat{H} \\
 \uparrow \\
 \bar{F} \\
 \uparrow \\
 \hat{A} \\
 \uparrow \\
 \bar{D} \\
 \uparrow \\
 \bar{Q} \\
 \uparrow \\
 B
 \end{array}
 \quad (A.1.1),$$

where \bar{W}, \bar{V} - *parelf* levels of W and V respectively, \bar{J}, \bar{U} - singelf levels of J and U respectively, \hat{H}, \hat{O} - paradoxical upper levels of H and O respectively, \bar{F}, \bar{G} - paradoxical average levels of F and G respectively, \hat{A}, \hat{R} - upper levels of A and R respectively, \bar{Q}, \bar{P} - middle₁ levels of Q and P respectively, B goes to the middle₁ level of Q - \bar{Q} , \bar{Q} goes to the middle₂ level \bar{D} , \bar{D} goes to the upper level of A - \hat{A} , \hat{A} goes to the paradoxical middle level of F - \bar{F} , \bar{F} goes to the paradoxical upper level of H - \hat{H} , \hat{H} goes to the singelf levels of J - \bar{J} , \bar{J} goes to the *parelf* levels of W - \bar{W} , \bar{V} goes to the \bar{U}, \bar{U} goes to the \hat{O}, \hat{O} goes to the paradoxical middle level of G - \bar{G} , \bar{G} goes to the upper level of R - \hat{R} , \hat{R} goes to the middle₂ level \bar{S} , \bar{S} goes to the middle₁ level of P - \bar{P} , \bar{P} goes to the lower level of C simultaneously. The result of this process will be described by the expression.

$$\begin{array}{c}
C \\
\uparrow \\
\overline{P} \\
\uparrow \\
\overline{S} \\
\uparrow \\
\overline{R} \\
\uparrow \\
\overline{G} \\
\uparrow \\
\overline{O} \\
\uparrow \\
\overline{U} \\
\uparrow \\
\overline{V} \\
\vdots
\end{array}
\begin{array}{c}
\overline{Zrt} \\
\uparrow \\
\overline{F} \\
\uparrow \\
\overline{A} \\
\uparrow \\
\overline{D} \\
\uparrow \\
\overline{Q} \\
\uparrow \\
B
\end{array}
\quad (A.1.2).$$

Definition 1

The dynamic operator (A.1.1) we shall call Zprt – element of the first type, (A.1.2) we shall call Zrt – element of the first type.

Remark 3

Can consider Zprt – elements use the Banach space.

It's allowed to add Zprt – elements:

$$\begin{array}{c}
C \\
\uparrow \\
\overline{P} \\
\uparrow \\
\overline{S} \\
\uparrow \\
\overline{R} \\
\uparrow \\
\overline{G} \\
\uparrow \\
\overline{O} \\
\uparrow \\
\overline{U} \\
\uparrow \\
\overline{V} \\
\vdots
\end{array}
\begin{array}{c}
\overline{Zprt} \\
\uparrow \\
\overline{F} \\
\uparrow \\
\overline{A} \\
\uparrow \\
\overline{D} \\
\uparrow \\
\overline{Q} \\
\uparrow \\
B
\end{array}
+
\begin{array}{c}
C \\
\uparrow \\
\overline{P} \\
\uparrow \\
\overline{S} \\
\uparrow \\
\overline{R} \\
\uparrow \\
\overline{G} \\
\uparrow \\
\overline{O} \\
\uparrow \\
\overline{U} \\
\uparrow \\
\overline{V} \\
\vdots
\end{array}
\begin{array}{c}
\overline{Zprt} \\
\uparrow \\
\overline{F} \\
\uparrow \\
\overline{A} \\
\uparrow \\
\overline{D} \\
\uparrow \\
\overline{Q} \\
\uparrow \\
B
\end{array}
=
\begin{array}{c}
C \\
\uparrow \\
\overline{P} \\
\uparrow \\
\overline{S} \\
\uparrow \\
\overline{R} \\
\uparrow \\
\overline{G} \\
\uparrow \\
\overline{O} \\
\uparrow \\
\overline{U} \\
\uparrow \\
\overline{V} \\
\vdots
\end{array}
\begin{array}{c}
\overline{Zprt} \\
\uparrow \\
\overline{F} \\
\uparrow \\
\overline{A} \\
\uparrow \\
\overline{D} \\
\uparrow \\
\overline{Q} \\
\uparrow \\
B
\end{array}
\quad (A.1.2.1),$$

$$\begin{array}{c}
C \\
\uparrow \\
\overline{P} \\
\uparrow \\
\overline{S} \\
\uparrow \\
\overline{R} \\
\uparrow \\
\overline{G} \\
\uparrow \\
\overline{O} \\
\uparrow \\
\overline{U} \\
\uparrow \\
\overline{V} \\
\vdots
\end{array}
\begin{array}{c}
\overline{Zprt} \\
\uparrow \\
\overline{F} \\
\uparrow \\
\overline{A} \\
\uparrow \\
\overline{D} \\
\uparrow \\
\overline{Q} \\
\uparrow \\
B_1
\end{array}
+
\begin{array}{c}
C \\
\uparrow \\
\overline{P} \\
\uparrow \\
\overline{S} \\
\uparrow \\
\overline{R} \\
\uparrow \\
\overline{G} \\
\uparrow \\
\overline{O} \\
\uparrow \\
\overline{U} \\
\uparrow \\
\overline{V} \\
\vdots
\end{array}
\begin{array}{c}
\overline{Zprt} \\
\uparrow \\
\overline{F} \\
\uparrow \\
\overline{A} \\
\uparrow \\
\overline{D} \\
\uparrow \\
\overline{Q} \\
\uparrow \\
B_2
\end{array}
=
\begin{array}{c}
C \\
\uparrow \\
\overline{P} \\
\uparrow \\
\overline{S} \\
\uparrow \\
\overline{R} \\
\uparrow \\
\overline{G} \\
\uparrow \\
\overline{O} \\
\uparrow \\
\overline{U} \\
\uparrow \\
\overline{V} \\
\vdots
\end{array}
\begin{array}{c}
\overline{Zprt} \\
\uparrow \\
\overline{F} \\
\uparrow \\
\overline{A} \\
\uparrow \\
\overline{D} \\
\uparrow \\
\overline{Q} \\
\uparrow \\
B_1 \cup B_2
\end{array}
\quad (A.1.2.2),$$

$$\begin{array}{ccccccc}
C & \uparrow & \bar{P} & \uparrow & \bar{S} & \uparrow & \bar{R} & \uparrow & \bar{G} & \uparrow & \bar{O} & \uparrow & \bar{U} & \uparrow & \bar{V} & \uparrow & \dots \\
\vdots & & \bar{W} & \uparrow & \bar{J} & \uparrow & \bar{H} & \uparrow & \bar{F}_1 & \uparrow & \bar{A} & \uparrow & \bar{D} & \uparrow & \bar{Q} & \uparrow & B \\
C & \uparrow & \bar{P} & \uparrow & \bar{S} & \uparrow & \bar{R} & \uparrow & \bar{G} & \uparrow & \bar{O} & \uparrow & \bar{U} & \uparrow & \bar{V} & \uparrow & \dots \\
\vdots & & \bar{W} & \uparrow & \bar{J} & \uparrow & \bar{H} & \uparrow & \bar{F}_2 & \uparrow & \bar{A} & \uparrow & \bar{D} & \uparrow & \bar{Q} & \uparrow & B \\
C & \uparrow & \bar{P} & \uparrow & \bar{S} & \uparrow & \bar{R} & \uparrow & \bar{G} & \uparrow & \bar{O} & \uparrow & \bar{U} & \uparrow & \bar{V} & \uparrow & \dots \\
\vdots & & \bar{W} & \uparrow & \bar{J} & \uparrow & \bar{H} & \uparrow & \bar{F}_1 \cup \bar{F}_2 & \uparrow & \bar{A} & \uparrow & \bar{D} & \uparrow & \bar{Q} & \uparrow & B
\end{array}
\quad (A.1.2.6.1),$$

$$\begin{array}{ccccccc}
C & \uparrow & \bar{P} & \uparrow & \bar{S} & \uparrow & \bar{R} & \uparrow & \bar{G}_1 & \uparrow & \bar{O} & \uparrow & \bar{U} & \uparrow & \bar{V} & \uparrow & \dots \\
\vdots & & \bar{W} & \uparrow & \bar{J} & \uparrow & \bar{H} & \uparrow & \bar{F} & \uparrow & \bar{A} & \uparrow & \bar{D} & \uparrow & \bar{Q} & \uparrow & B \\
C & \uparrow & \bar{P} & \uparrow & \bar{S} & \uparrow & \bar{R} & \uparrow & \bar{G}_2 & \uparrow & \bar{O} & \uparrow & \bar{U} & \uparrow & \bar{V} & \uparrow & \dots \\
\vdots & & \bar{W} & \uparrow & \bar{J} & \uparrow & \bar{H} & \uparrow & \bar{F} & \uparrow & \bar{A} & \uparrow & \bar{D} & \uparrow & \bar{Q} & \uparrow & B \\
C & \uparrow & \bar{P} & \uparrow & \bar{S} & \uparrow & \overbrace{\bar{R}} & \uparrow & \bar{G}_1 \cup \bar{G}_2 & \uparrow & \bar{O} & \uparrow & \bar{U} & \uparrow & \bar{V} & \uparrow & \dots \\
\vdots & & \bar{W} & \uparrow & \bar{J} & \uparrow & \bar{H} & \uparrow & \bar{F} & \uparrow & \bar{A} & \uparrow & \bar{D} & \uparrow & \bar{Q} & \uparrow & B
\end{array}
\quad (A.1.2.6.2),$$

$$\begin{array}{ccc}
B & & \ddots \\
\uparrow & & \overline{\overline{W}} \\
\overline{Q} & & \uparrow \\
\overline{\overline{Q}} & & \overline{J} \\
\uparrow & & \uparrow \\
\overline{R} & & \overline{H} \\
\uparrow & & \uparrow \\
\overline{\overline{G}} & \text{Zprt} & \overline{F} \quad (\text{A.1.5}), \\
\uparrow & & \uparrow \\
\overline{\overline{A}} & & \overline{A} \\
\uparrow & & \uparrow \\
\overline{\overline{U}} & & \overline{Q} \\
\uparrow & & \uparrow \\
\overline{\overline{V}} & & \overline{Q} \\
\uparrow & & \uparrow \\
\vdots & & B
\end{array}$$

denote $Z_3 f H, F, A; Q; B$.

$$\begin{array}{ccc}
A & & \ddots \\
\uparrow & & \overline{\overline{Q}} \\
\overline{Q} & & \uparrow \\
\overline{\overline{Q}} & & \overline{Q} \\
\uparrow & & \uparrow \\
\overline{Q} & & \overline{A} \\
\uparrow & & \uparrow \\
\overline{\overline{Q}} & \text{Zprt} & \overline{Q} \quad (\text{A.1.6}), \\
\uparrow & & \uparrow \\
\overline{\overline{A}} & & \overline{Q} \\
\uparrow & & \uparrow \\
\overline{\overline{Q}} & & \overline{Q} \\
\uparrow & & \uparrow \\
\overline{\overline{Q}} & & \overline{Q} \\
\uparrow & & \uparrow \\
\vdots & & A
\end{array}$$

denote $Z_4 f A; Q$.

W - $\overline{\overline{W}}$ simultaneously, the result of this process will be described by the expression.

$$\begin{array}{c} \vdots \\ \overline{\overline{W}} \\ \uparrow \\ \overline{\overline{J}} \\ \uparrow \\ \overline{\overline{H}} \\ \uparrow \\ \text{Zrt } \overline{\overline{F}} \text{ (A.1.9)} \\ \uparrow \\ \overline{\overline{A}} \\ \uparrow \\ \overline{\overline{D}} \\ \uparrow \\ \overline{\overline{Q}} \\ \uparrow \\ B \end{array}$$

or

$$\begin{array}{c} C \\ \uparrow \\ \overline{\overline{P}} \\ \uparrow \\ \overline{\overline{S}} \\ \uparrow \\ \overline{\overline{R}} \\ \uparrow \\ \overline{\overline{G}} \text{ Zprt (A.1.10),} \\ \uparrow \\ \overline{\overline{O}} \\ \uparrow \\ \overline{\overline{U}} \\ \uparrow \\ \overline{\overline{V}} \\ \vdots \end{array}$$

where $\overline{\overline{V}}$ - *parelf* levels of V goes to $\overline{\overline{U}}$ - singelf levels of U, $\overline{\overline{O}}$ goes to the paradoxical middle level of G - $\overline{\overline{G}}$, $\overline{\overline{G}}$ goes to the upper level of R - $\overline{\overline{R}}$, $\overline{\overline{R}}$ goes to the middle₂ level $\overline{\overline{S}}$, $\overline{\overline{S}}$ goes to the middle₁ level of P - $\overline{\overline{P}}$, $\overline{\overline{P}}$ goes to the lower level of C simultaneously, the result of this process will be described by the expression

$$\begin{array}{c}
C \\
\uparrow \\
\overline{P} \\
\uparrow \\
\overline{S} \\
\uparrow \\
\overline{R} \\
\uparrow \\
\overline{G} \\
\uparrow \\
\overline{O} \\
\uparrow \\
\overline{U} \\
\uparrow \\
\overline{V} \\
\vdots
\end{array}
\text{Zrt (A.1.11)}$$

Definition 2

The dynamic operator (A.1.8) we shall call Zprt – element of the second type, (A.1.9) we shall call Zrt – element of the second type.

It's allowed to add Zprt – elements of the second type:

$$\begin{array}{c}
\overline{W} \\
\uparrow \\
\overline{J} \\
\uparrow \\
\overline{H_1} \\
\uparrow \\
\overline{F} \\
\uparrow \\
\overline{A} \\
\uparrow \\
\overline{D} \\
\uparrow \\
\overline{Q} \\
\uparrow \\
B
\end{array}
\text{Zprt}
+
\begin{array}{c}
\overline{W} \\
\uparrow \\
\overline{J} \\
\uparrow \\
\overline{H_2} \\
\uparrow \\
\overline{F} \\
\uparrow \\
\overline{A} \\
\uparrow \\
\overline{D} \\
\uparrow \\
\overline{Q} \\
\uparrow \\
B
\end{array}
\text{Zprt}
=
\begin{array}{c}
\overline{W} \\
\uparrow \\
\overline{J} \\
\uparrow \\
\overline{H_1} \cup \overline{H_2} \\
\uparrow \\
\overline{F} \\
\uparrow \\
\overline{A} \\
\uparrow \\
\overline{D} \\
\uparrow \\
\overline{Q} \\
\uparrow \\
B
\end{array}
\text{Zprt}
\quad (\text{A.1.12}),$$

$$\begin{array}{c}
\begin{array}{c}
\cdots \\
\overline{\overline{W_1}} \\
\uparrow \\
\overline{\overline{J}} \\
\uparrow \\
\overline{\overline{H}} \\
\uparrow \\
\overline{\overline{F}} \\
\uparrow \\
\overline{\overline{A}} \\
\uparrow \\
\overline{\overline{D}} \\
\uparrow \\
\overline{\overline{Q}} \\
\uparrow \\
B
\end{array}
+ \text{Zprt}
\begin{array}{c}
\begin{array}{c}
\cdots \\
\overline{\overline{W_2}} \\
\uparrow \\
\overline{\overline{J}} \\
\uparrow \\
\overline{\overline{H}} \\
\uparrow \\
\overline{\overline{F}} \\
\uparrow \\
\overline{\overline{A}} \\
\uparrow \\
\overline{\overline{D}} \\
\uparrow \\
\overline{\overline{Q}} \\
\uparrow \\
B
\end{array}
= \text{Zprt}
\begin{array}{c}
\begin{array}{c}
\cdots \\
\overline{\overline{W_1 \cup W_2}} \\
\uparrow \\
\overline{\overline{J}} \\
\uparrow \\
\overline{\overline{H}} \\
\uparrow \\
\overline{\overline{F}} \\
\uparrow \\
\overline{\overline{A}} \\
\uparrow \\
\overline{\overline{D}} \\
\uparrow \\
\overline{\overline{Q}} \\
\uparrow \\
B
\end{array}
\end{array}
\quad (\text{A.1.13.3.3}).
\end{array}$$

We consider the following self-type Zprt-structures of the second type:

$$\begin{array}{c}
\begin{array}{c}
\cdots \\
\overline{\overline{A}} \\
\uparrow \\
\overline{\overline{Q}} \\
\uparrow \\
\overline{\overline{Q}} \\
\uparrow \\
\overline{\overline{Q}} \\
\uparrow \\
\overline{\overline{Q}} \\
\uparrow \\
\overline{\overline{Q}} \\
\uparrow \\
\overline{\overline{Q}} \\
\uparrow \\
A
\end{array}
\text{Zprt}
\overline{\overline{Q}} \quad (\text{A.1.14}),
\end{array}$$

and any other possible options of self for (A.1.8) etc.

Definition 3

The dynamic operator (A.1.10) we shall call tprZ – element, (A.1.11) we shall call trZ – element.

It's allowed to add tprZ – elements:

$$\begin{array}{c}
 C_1 \\
 \uparrow \\
 \bar{P} \\
 \uparrow \\
 \bar{S} \\
 \uparrow \\
 \bar{R} \\
 \uparrow \\
 \bar{G} \\
 \uparrow \\
 \bar{O} \\
 \uparrow \\
 \bar{U} \\
 \uparrow \\
 \bar{V} \\
 \dots
 \end{array}
 Z_{prt} +
 \begin{array}{c}
 C_2 \\
 \uparrow \\
 \bar{P} \\
 \uparrow \\
 \bar{S} \\
 \uparrow \\
 \bar{R} \\
 \uparrow \\
 \bar{G} \\
 \uparrow \\
 \bar{O} \\
 \uparrow \\
 \bar{U} \\
 \uparrow \\
 \bar{V} \\
 \dots
 \end{array}
 Z_{prt} =
 \begin{array}{c}
 C_1 \cup C_2 \\
 \uparrow \\
 \bar{P} \\
 \uparrow \\
 \bar{S} \\
 \uparrow \\
 \bar{R} \\
 \uparrow \\
 \bar{G} \\
 \uparrow \\
 \bar{O} \\
 \uparrow \\
 \bar{U} \\
 \uparrow \\
 \bar{V} \\
 \dots
 \end{array}
 Z_{prt} \quad (A.1.17),$$

$$\begin{array}{c}
 C \\
 \uparrow \\
 \bar{P} \\
 \uparrow \\
 \bar{S} \\
 \uparrow \\
 \bar{R} \\
 \uparrow \\
 \bar{G} \\
 \uparrow \\
 \bar{O}_1 \\
 \uparrow \\
 \bar{U} \\
 \uparrow \\
 \bar{V} \\
 \dots
 \end{array}
 Z_{prt} +
 \begin{array}{c}
 C \\
 \uparrow \\
 \bar{P} \\
 \uparrow \\
 \bar{S} \\
 \uparrow \\
 \bar{R} \\
 \uparrow \\
 \bar{G} \\
 \uparrow \\
 \bar{O}_2 \\
 \uparrow \\
 \bar{U} \\
 \uparrow \\
 \bar{V} \\
 \dots
 \end{array}
 Z_{prt} =
 \begin{array}{c}
 C \\
 \uparrow \\
 \bar{P} \\
 \uparrow \\
 \bar{S} \\
 \uparrow \\
 \bar{R} \\
 \uparrow \\
 \bar{G} \\
 \uparrow \\
 \bar{O}_1 \cup \bar{O}_2 \\
 \uparrow \\
 \bar{U} \\
 \uparrow \\
 \bar{V} \\
 \dots
 \end{array}
 Z_{prt} \quad (A.1.18),$$

$$\begin{array}{c}
C \\
\uparrow \\
\overline{P_1} \\
\uparrow \\
\overline{S} \\
\uparrow \\
\overline{R} \\
\uparrow \\
\equiv \\
\overline{G} \\
\uparrow \\
\overline{O} \\
\uparrow \\
\overline{U} \\
\uparrow \\
\overline{V} \\
\vdots
\end{array}
\text{Zprt} +
\begin{array}{c}
C \\
\uparrow \\
\overline{P_2} \\
\uparrow \\
\overline{S} \\
\uparrow \\
\overline{R} \\
\uparrow \\
\equiv \\
\overline{G} \\
\uparrow \\
\overline{O} \\
\uparrow \\
\overline{U} \\
\uparrow \\
\overline{V} \\
\vdots
\end{array}
\text{Zprt} =
\begin{array}{c}
C \\
\uparrow \\
\overline{(P_1 \cup P_2)} \\
\uparrow \\
\overline{S} \\
\uparrow \\
\overline{R} \\
\uparrow \\
\equiv \\
\overline{G} \\
\uparrow \\
\overline{O} \\
\uparrow \\
\overline{U} \\
\uparrow \\
\overline{V} \\
\vdots
\end{array}
\text{Zprt (A.1.18.1),}$$

$$\begin{array}{c}
C \\
\uparrow \\
\overline{P} \\
\uparrow \\
\overline{S} \\
\uparrow \\
\overline{R_1} \\
\uparrow \\
\equiv \\
\overline{G} \\
\uparrow \\
\overline{O} \\
\uparrow \\
\overline{U} \\
\uparrow \\
\overline{V} \\
\vdots
\end{array}
\text{Zprt} +
\begin{array}{c}
C \\
\uparrow \\
\overline{P} \\
\uparrow \\
\overline{S} \\
\uparrow \\
\overline{R_2} \\
\uparrow \\
\equiv \\
\overline{G} \\
\uparrow \\
\overline{O} \\
\uparrow \\
\overline{U} \\
\uparrow \\
\overline{V} \\
\vdots
\end{array}
\text{Zprt} =
\begin{array}{c}
C \\
\uparrow \\
\overline{P} \\
\uparrow \\
\overline{S} \\
\uparrow \\
\overline{R_1 \cup R_2} \\
\uparrow \\
\equiv \\
\overline{G} \\
\uparrow \\
\overline{O} \\
\uparrow \\
\overline{U} \\
\uparrow \\
\overline{V} \\
\vdots
\end{array}
\text{Zprt (A.1.18.2),}$$

$$\begin{array}{c}
C \\
\uparrow \\
\overline{P} \\
\uparrow \\
\overline{S} \\
\uparrow \\
\overline{R} \\
\uparrow \\
\equiv \\
\overline{G_1} \\
\uparrow \\
\overline{O} \\
\uparrow \\
\overline{U} \\
\uparrow \\
\overline{V} \\
\vdots
\end{array}
\text{Zprt} +
\begin{array}{c}
C \\
\uparrow \\
\overline{P} \\
\uparrow \\
\overline{S} \\
\uparrow \\
\overline{R} \\
\uparrow \\
\equiv \\
\overline{G_2} \\
\uparrow \\
\overline{O} \\
\uparrow \\
\overline{U} \\
\uparrow \\
\overline{V} \\
\vdots
\end{array}
\text{Zprt} =
\begin{array}{c}
C \\
\uparrow \\
\overline{P} \\
\uparrow \\
\overline{S} \\
\uparrow \\
\overline{R} \\
\uparrow \\
\equiv \\
\overline{G_1 \cup G_2} \\
\uparrow \\
\overline{O} \\
\uparrow \\
\overline{U} \\
\uparrow \\
\overline{V} \\
\vdots
\end{array}
\text{Zprt (A.1.18.3),}$$

$$\begin{array}{ccc}
C \uparrow & C \uparrow & C \uparrow \\
\bar{P} \uparrow & \bar{P} \uparrow & \bar{P} \uparrow \\
\bar{S}_1 \uparrow & \bar{S}_1 \uparrow & \bar{S}_1 \cup \bar{S}_2 \\
\bar{R} \uparrow & \bar{R} \uparrow & \bar{R} \uparrow \\
\bar{G} \uparrow & \bar{G} \uparrow & \bar{G} \uparrow \\
Z_{prt} + & Z_{prt} = & Z_{prt} \text{ (A.1.18.3.1),} \\
\bar{O} \uparrow & \bar{O} \uparrow & \bar{O} \uparrow \\
\bar{U} \uparrow & \bar{U} \uparrow & \bar{U} \uparrow \\
\bar{V} \uparrow & \bar{V} \uparrow & \bar{V} \uparrow \\
\vdots & \vdots & \vdots
\end{array}$$

$$\begin{array}{ccc}
C \uparrow & C \uparrow & C \uparrow \\
\bar{P} \uparrow & \bar{P} \uparrow & \bar{P} \uparrow \\
\bar{S} \uparrow & \bar{S} \uparrow & \bar{S} \uparrow \\
\bar{R} \uparrow & \bar{R} \uparrow & \overbrace{\bar{R}} \\
\bar{G} \uparrow & \bar{G} \uparrow & \bar{G} \uparrow \\
Z_{prt} + & Z_{prt} = & Z_{prt} \text{ (A.1.18.3.2),} \\
\bar{O} \uparrow & \bar{O} \uparrow & \bar{O} \uparrow \\
\bar{U}_1 \uparrow & \bar{U}_2 \uparrow & \bar{U}_1 \cup \bar{U}_2 \\
\bar{V} \uparrow & \bar{V} \uparrow & \bar{V} \uparrow \\
\vdots & \vdots & \vdots
\end{array}$$

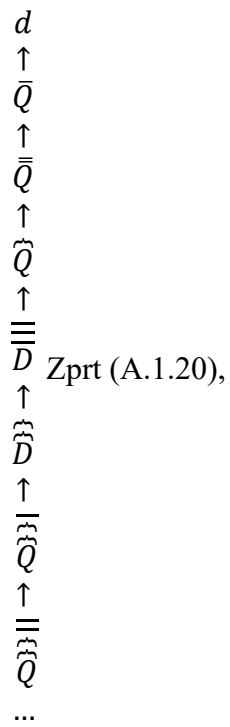
$$\begin{array}{ccc}
C \uparrow & C \uparrow & C \uparrow \\
\bar{P} \uparrow & \bar{P} \uparrow & \bar{P} \uparrow \\
\bar{S} \uparrow & \bar{S} \uparrow & \bar{S} \uparrow \\
\bar{R} \uparrow & \bar{R} \uparrow & \overbrace{\bar{R}} \\
\bar{G} \uparrow & \bar{G} \uparrow & \bar{G} \uparrow \\
Z_{prt} + & Z_{prt} = & Z_{prt} \text{ (A.1.18.3.3).} \\
\bar{O} \uparrow & \bar{O} \uparrow & \bar{O} \uparrow \\
\bar{U} \uparrow & \bar{U} \uparrow & \bar{U} \uparrow \\
\bar{V}_1 \uparrow & \bar{V}_2 \uparrow & \bar{V}_1 \cup \bar{V}_2 \\
\vdots & \vdots & \vdots
\end{array}$$

We consider the following self-type tprZ-structures:

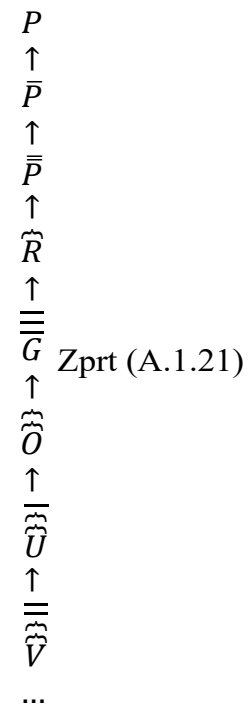
$$\begin{array}{c}
 O \\
 \uparrow \\
 \bar{P} \\
 \uparrow \\
 \bar{P} \\
 \uparrow \\
 \tilde{R} \\
 \uparrow \\
 \equiv \\
 G \text{ Zprt (A.1.19)} \\
 \uparrow \\
 \tilde{O} \\
 \uparrow \\
 \tilde{O} \\
 \uparrow \\
 \equiv \\
 \tilde{O} \\
 \dots
 \end{array}$$

$$\begin{array}{c}
 strD \\
 \uparrow \\
 \bar{Q} \\
 \uparrow \\
 \bar{Q} \\
 \uparrow \\
 \tilde{Q} \\
 \uparrow \\
 \equiv \\
 Q \text{ Zprt (A.1.19.1),} \\
 \uparrow \\
 \tilde{Q} \\
 \uparrow \\
 \tilde{Q} \\
 \uparrow \\
 \equiv \\
 \tilde{a} \\
 \dots
 \end{array}$$

denote $Z_9fd; Q; D, d \subset D,$



denote $Z_{10}fD; Q; d, d \subset D$



and any other possible options of self for (A.1.10) etc.

1.3 Dynamic Zprt – Elements, Self-Type Dynamic Zprt-Structures

We considered Zprt – elements earlier. Here we consider dynamic Zprt – elements. We consider dynamic operator whose elements change over time

$$\begin{array}{c}
C(t) \\
\uparrow \\
\overline{P(t)} \\
\uparrow \\
\overline{S(t)} \\
\uparrow \\
\overline{R(t)} \\
\uparrow \\
\overline{G(t)} \\
\uparrow \\
\overline{O(t)} \\
\uparrow \\
\overline{U(t)} \\
\uparrow \\
\overline{V(t)} \\
\vdots
\end{array}
Z_{\text{prt}}(t)
\begin{array}{c}
\vdots \\
\overline{W(t)} \\
\uparrow \\
\overline{J(t)} \\
\uparrow \\
\overline{H(t)} \\
\uparrow \\
\overline{F(t)} \\
\uparrow \\
\overline{A(t)} \\
\uparrow \\
\overline{D(t)} \\
\uparrow \\
\overline{Q(t)} \\
\uparrow \\
B(t)
\end{array}
(2.1),$$

where $\overline{W(t)}, \overline{V(t)}$ - *parelf* levels of $W(t)$ and V respectively, $\overline{J(t)}, \overline{U(t)}$ - *singelf* levels of $J(t)$ and $U(t)$ respectively, $\overline{H(t)}, \overline{O(t)}$ - *paradoxical upper* levels of $H(t)$ and $O(t)$ respectively, $\overline{F(t)}, \overline{G(t)}$ - *paradoxical average* levels of $F(t)$ and $G(t)$ respectively, $\overline{A(t)}, \overline{R(t)}$ - *upper* levels of $A(t)$ and $R(t)$ respectively, $\overline{Q(t)}, \overline{P(t)}$ - *middle₁* levels of $Q(t)$ and $P(t)$ respectively, $B(t)$ goes to the *middle₁* level of $Q(t)$ - $\overline{Q(t)}, \overline{Q(t)}$ goes to the *middle₂* level $\overline{D(t)}, \overline{D(t)}$ goes to the *upper* level of $A(t)$ - $\overline{A(t)}, \overline{A(t)}$ goes to the *paradoxical middle* level of $F(t)$ - $\overline{F(t)}, \overline{F(t)}$ goes to the *paradoxical upper* level of $H(t)$ - $\overline{H(t)}, \overline{H(t)}$ goes to the *singelf* levels of $J(t)$ - $\overline{J(t)}, \overline{J}$ goes to the *parelf* levels of $W(t)$ - $\overline{W(t)}, \overline{V(t)}$ goes to the $\overline{U(t)}, \overline{U}$ goes to the $\overline{O(t)}$ goes to the *paradoxical middle* level of $G(t)$ - $\overline{G(t)}, \overline{G(t)}$ goes to the *upper* level of $R(t)$ - $\overline{R(t)}, \overline{R(t)}$ goes to the *middle₂* level $\overline{S(t)}, \overline{S(t)}$ goes to the *middle₁* level of $P(t)$ - $\overline{P(t)}, \overline{P(t)}$ goes to the lower level of $C(t)$ simultaneously. The result of this process will be described by the expression

$$\begin{array}{c}
C(t) \\
\uparrow \\
\overline{P(t)} \\
\uparrow \\
\overline{S(t)} \\
\uparrow \\
\overline{R(t)} \\
\uparrow \\
\overline{G(t)} \text{ Zprt}(t) \\
\uparrow \\
\overline{O(t)} \\
\uparrow \\
\overline{U(t)} \\
\uparrow \\
\overline{V(t)} \\
\vdots
\end{array}
\quad
\begin{array}{c}
\overline{\overline{\overline{\dots}}} \\
\overline{W(t)} \\
\uparrow \\
\overline{J(t)} \\
\uparrow \\
\overline{H(t)} \\
\uparrow \\
\overline{F(t)} \text{ (2.2)} \\
\uparrow \\
\overline{A(t)} \\
\uparrow \\
\overline{D(t)} \\
\uparrow \\
\overline{Q(t)} \\
\uparrow \\
B(t)
\end{array}$$

Definition 4

The dynamic operator (A.1.2.1) we shall call dynamic Zprt – element of the first type, (A.1.2.2) we shall call dynamic Zrt – element of the first type.

It's allowed to add dynamic Zprt – elements:

$$\begin{array}{c}
C(t) \\
\uparrow \\
\overline{P(t)} \\
\uparrow \\
\overline{S(t)} \\
\uparrow \\
\overline{R(t)} \\
\uparrow \\
\overline{G(t)} \text{ Zprt}(t) \\
\uparrow \\
\overline{O(t)} \\
\uparrow \\
\overline{U(t)} \\
\uparrow \\
\overline{V(t)} \\
\vdots
\end{array}
\quad
\begin{array}{c}
\overline{\overline{\overline{\dots}}} \\
\overline{W(t)} \\
\uparrow \\
\overline{J(t)} \\
\uparrow \\
\overline{H_1(t)} \\
\uparrow \\
\overline{F(t)} \\
\uparrow \\
\overline{A(t)} \\
\uparrow \\
\overline{D(t)} \\
\uparrow \\
\overline{Q(t)} \\
\uparrow \\
B(t)
\end{array}
+
\begin{array}{c}
C(t) \\
\uparrow \\
\overline{P(t)} \\
\uparrow \\
\overline{S(t)} \\
\uparrow \\
\overline{R(t)} \\
\uparrow \\
\overline{G(t)} \text{ Zprt}(t) \\
\uparrow \\
\overline{O(t)} \\
\uparrow \\
\overline{U(t)} \\
\uparrow \\
\overline{V(t)} \\
\vdots
\end{array}
\quad
\begin{array}{c}
\overline{\overline{\overline{\dots}}} \\
\overline{W(t)} \\
\uparrow \\
\overline{J(t)} \\
\uparrow \\
\overline{H_2(t)} \\
\uparrow \\
\overline{F(t)} \\
\uparrow \\
\overline{A(t)} \\
\uparrow \\
\overline{D(t)} \\
\uparrow \\
\overline{Q(t)} \\
\uparrow \\
B(t)
\end{array}
=
\begin{array}{c}
C(t) \\
\uparrow \\
\overline{P(t)} \\
\uparrow \\
\overline{S(t)} \\
\uparrow \\
\overline{R(t)} \\
\uparrow \\
\overline{G(t)} \text{ Zprt}(t) \\
\uparrow \\
\overline{O(t)} \\
\uparrow \\
\overline{U(t)} \\
\uparrow \\
\overline{V(t)} \\
\vdots
\end{array}
\quad
\begin{array}{c}
\overline{\overline{\overline{\dots}}} \\
\overline{W(t)} \\
\uparrow \\
\overline{J(t)} \\
\uparrow \\
\overline{H_1(t) \cup H_2(t)} \\
\uparrow \\
\overline{F(t)} \\
\uparrow \\
\overline{A(t)} \\
\uparrow \\
\overline{D(t)} \\
\uparrow \\
\overline{Q(t)} \\
\uparrow \\
B(t)
\end{array}
\quad \text{(A.1.2.2.1),}$$

$$\begin{array}{c}
C(t) \\
\uparrow \\
\overline{P(t)} \\
\uparrow \\
\overline{S(t)} \\
\uparrow \\
\overline{R(t)} \\
\uparrow \\
\overline{G(t)} \text{ Zprt}(t) \\
\uparrow \\
\overline{O(t)} \\
\uparrow \\
\overline{U(t)} \\
\uparrow \\
\overline{V(t)} \\
\vdots
\end{array}
\quad
\begin{array}{c}
\overline{\overline{\overline{\dots}}} \\
\overline{W(t)} \\
\uparrow \\
\overline{J(t)} \\
\uparrow \\
\overline{H(t)} \\
\uparrow \\
\overline{F(t)} \\
\uparrow \\
\overline{A(t)} \\
\uparrow \\
\overline{D(t)} \\
\uparrow \\
\overline{Q(t)} \\
\uparrow \\
B_1(t)
\end{array}
+
\begin{array}{c}
C(t) \\
\uparrow \\
\overline{P(t)} \\
\uparrow \\
\overline{S(t)} \\
\uparrow \\
\overline{R(t)} \\
\uparrow \\
\overline{G(t)} \text{ Zprt}(t) \\
\uparrow \\
\overline{O(t)} \\
\uparrow \\
\overline{U(t)} \\
\uparrow \\
\overline{V(t)} \\
\vdots
\end{array}
\quad
\begin{array}{c}
\overline{\overline{\overline{\dots}}} \\
\overline{W(t)} \\
\uparrow \\
\overline{J(t)} \\
\uparrow \\
\overline{H(t)} \\
\uparrow \\
\overline{F(t)} \\
\uparrow \\
\overline{A(t)} \\
\uparrow \\
\overline{D(t)} \\
\uparrow \\
\overline{Q(t)} \\
\uparrow \\
B_2(t)
\end{array}
=
\begin{array}{c}
C(t) \\
\uparrow \\
\overline{P(t)} \\
\uparrow \\
\overline{S(t)} \\
\uparrow \\
\overline{R(t)} \\
\uparrow \\
\overline{G(t)} \text{ Zprt}(t) \\
\uparrow \\
\overline{O(t)} \\
\uparrow \\
\overline{U(t)} \\
\uparrow \\
\overline{V(t)} \\
\vdots
\end{array}
\quad
\begin{array}{c}
\overline{\overline{\overline{\dots}}} \\
\overline{W(t)} \\
\uparrow \\
\overline{J(t)} \\
\uparrow \\
\overline{H(t)} \\
\uparrow \\
\overline{F(t)} \\
\uparrow \\
\overline{A(t)} \\
\uparrow \\
\overline{D(t)} \\
\uparrow \\
\overline{Q(t)} \\
\uparrow \\
B_1(t) \cup B_2(t)
\end{array}
\quad \text{(A.1.2.2.2),}$$

$$\begin{array}{ccccccc}
C(t) & & \dots & & C(t) & & \dots \\
\uparrow & & \overline{\overline{W(t)}} & & \uparrow & & \overline{\overline{W(t)}} \\
\overline{P_1(t)} & & \uparrow & & \overline{P_2(t)} & & \overline{P_1(t) \cup P_2(t)} \\
\uparrow & & \overline{J(t)} & & \uparrow & & \uparrow \\
\overline{S(t)} & & \uparrow & & \overline{S(t)} & & \overline{S(t)} \\
\uparrow & & \overline{H(t)} & & \uparrow & & \uparrow \\
\overline{R(t)} & & \uparrow & & \overline{R(t)} & & \overline{R(t)} \\
\uparrow & & \overline{G(t)} & & \uparrow & & \uparrow \\
\overline{G(t)} & \text{Zprt}(t) & \overline{F(t)} & + & \overline{G(t)} & \text{Zprt}(t) & \overline{F(t)} \\
\uparrow & & \uparrow & & \uparrow & & \uparrow \\
\overline{O(t)} & & \overline{A(t)} & & \overline{O(t)} & & \overline{O(t)} \\
\uparrow & & \uparrow & & \uparrow & & \uparrow \\
\overline{U(t)} & & \overline{D(t)} & & \overline{U(t)} & & \overline{U(t)} \\
\uparrow & & \uparrow & & \uparrow & & \uparrow \\
\overline{V(t)} & & \overline{Q(t)} & & \overline{V(t)} & & \overline{Q(t)} \\
\uparrow & & \uparrow & & \uparrow & & \uparrow \\
\dots & & B(t) & & \dots & & B(t)
\end{array} \quad (\text{A.1.2.2.5}),$$

$$\begin{array}{ccccccc}
C(t) & & \dots & & C(t) & & \dots \\
\uparrow & & \overline{\overline{W(t)}} & & \uparrow & & \overline{\overline{W(t)}} \\
\overline{P(t)} & & \uparrow & & \overline{P(t)} & & \overline{P(t)} \\
\uparrow & & \overline{J(t)} & & \uparrow & & \uparrow \\
\overline{S(t)} & & \uparrow & & \overline{S(t)} & & \overline{S(t)} \\
\uparrow & & \overline{H(t)} & & \uparrow & & \uparrow \\
\overline{R(t)} & & \uparrow & & \overline{R(t)} & & \overline{R(t)} \\
\uparrow & & \overline{G(t)} & & \uparrow & & \uparrow \\
\overline{G(t)} & \text{Zprt}(t) & \overline{F(t)} & + & \overline{G(t)} & \text{Zprt}(t) & \overline{F(t)} \\
\uparrow & & \uparrow & & \uparrow & & \uparrow \\
\overline{O(t)} & & \overline{A(t)} & & \overline{O(t)} & & \overline{O(t)} \\
\uparrow & & \uparrow & & \uparrow & & \uparrow \\
\overline{U(t)} & & \overline{D(t)} & & \overline{U(t)} & & \overline{D(t)} \\
\uparrow & & \uparrow & & \uparrow & & \uparrow \\
\overline{V(t)} & & \overline{Q_1(t)} & & \overline{V(t)} & & \overline{Q_1(t) \cup Q_2(t)} \\
\uparrow & & \uparrow & & \uparrow & & \uparrow \\
\dots & & B(t) & & \dots & & B(t)
\end{array} \quad (\text{A.1.2.2.6}),$$

$$\begin{array}{ccccccc}
C(t) & & \dots & & C(t) & & \dots \\
\uparrow & & \overline{\overline{W(t)}} & & \uparrow & & \overline{\overline{W(t)}} \\
\overline{P(t)} & & \uparrow & & \overline{P(t)} & & \uparrow \\
\overline{S(t)} & & \overline{J(t)} & & \overline{S(t)} & & \overline{J(t)} \\
\uparrow & & \uparrow & & \uparrow & & \uparrow \\
\overline{R(t)} & & \overline{H(t)} & & \overline{R(t)} & & \overline{H(t)} \\
\uparrow & & \uparrow & & \uparrow & & \uparrow \\
\overline{\overline{G(t)}} & \text{Zprt}(t) & \overline{\overline{F(t)}} & + & \overline{\overline{G(t)}} & \text{Zprt}(t) & \overline{\overline{F(t)}} \\
\uparrow & & \uparrow & & \uparrow & & \uparrow \\
\overline{\overline{O(t)}} & & \overline{\overline{A_1(t)}} & & \overline{\overline{O(t)}} & & \overline{\overline{A_1(t)} \cup \overline{\overline{A_2(t)}}} \\
\uparrow & & \uparrow & & \uparrow & & \uparrow \\
\overline{\overline{U(t)}} & & \overline{\overline{D(t)}} & & \overline{\overline{U(t)}} & & \overline{\overline{D(t)}} \\
\uparrow & & \uparrow & & \uparrow & & \uparrow \\
\overline{\overline{V(t)}} & & \overline{\overline{Q(t)}} & & \overline{\overline{V(t)}} & & \overline{\overline{Q(t)}} \\
\uparrow & & \uparrow & & \uparrow & & \uparrow \\
\dots & & B(t) & & \dots & & B(t)
\end{array} \quad (\text{A.1.2.2.7}),$$

$$\begin{array}{ccccccc}
C(t) & & \dots & & C(t) & & \dots \\
\uparrow & & \overline{\overline{W(t)}} & & \uparrow & & \overline{\overline{W(t)}} \\
\overline{P(t)} & & \uparrow & & \overline{P(t)} & & \uparrow \\
\overline{S(t)} & & \overline{J(t)} & & \overline{S(t)} & & \overline{J(t)} \\
\uparrow & & \uparrow & & \uparrow & & \uparrow \\
\overline{R(t)} & & \overline{H(t)} & & \overline{R(t)} & & \overline{H(t)} \\
\uparrow & & \uparrow & & \uparrow & & \uparrow \\
\overline{\overline{G_1(t)}} & \text{Zprt}(t) & \overline{\overline{F(t)}} & + & \overline{\overline{G_2(t)}} & \text{Zprt}(t) & \overline{\overline{F(t)}} \\
\uparrow & & \uparrow & & \uparrow & & \uparrow \\
\overline{\overline{O(t)}} & & \overline{\overline{A(t)}} & & \overline{\overline{O(t)}} & & \overline{\overline{A(t)}} \\
\uparrow & & \uparrow & & \uparrow & & \uparrow \\
\overline{\overline{U(t)}} & & \overline{\overline{D(t)}} & & \overline{\overline{U(t)}} & & \overline{\overline{D(t)}} \\
\uparrow & & \uparrow & & \uparrow & & \uparrow \\
\overline{\overline{V(t)}} & & \overline{\overline{Q(t)}} & & \overline{\overline{V(t)}} & & \overline{\overline{Q(t)}} \\
\uparrow & & \uparrow & & \uparrow & & \uparrow \\
\dots & & B(t) & & \dots & & B(t)
\end{array} \quad (\text{A.1.2.2.8}),$$

$$\begin{array}{ccccccc}
C(t) & & \dots & & C(t) & & \dots \\
\uparrow & & \overline{\overline{W(t)}} & & \uparrow & & \overline{\overline{W(t)}} \\
\overline{P(t)} & & \uparrow & & \overline{P(t)} & & \uparrow \\
\overline{S(t)} & & \overline{\overline{J(t)}} & & \overline{S(t)} & & \overline{\overline{J(t)}} \\
\uparrow & & \uparrow & & \uparrow & & \uparrow \\
\overline{R(t)} & & \overline{\overline{H(t)}} & & \overline{R(t)} & & \overline{\overline{H(t)}} \\
\uparrow & & \uparrow & & \uparrow & & \uparrow \\
\overline{\overline{G(t)}} & \text{Zprt}(t) & \overline{\overline{F(t)}} & + & \overline{\overline{G(t)}} & \text{Zprt}(t) & \overline{\overline{F(t)}} \\
\uparrow & & \uparrow & & \uparrow & & \uparrow \\
\overline{\overline{O_1(t)}} & & \overline{\overline{A(t)}} & & \overline{\overline{O_1(t)} \cup \overline{\overline{O_2(t)}}} & & \overline{\overline{A(t)}} \\
\uparrow & & \uparrow & & \uparrow & & \uparrow \\
\overline{\overline{U(t)}} & & \overline{\overline{D(t)}} & & \overline{\overline{U(t)}} & & \overline{\overline{D(t)}} \\
\uparrow & & \uparrow & & \uparrow & & \uparrow \\
\overline{\overline{V(t)}} & & \overline{\overline{Q(t)}} & & \overline{\overline{V(t)}} & & \overline{\overline{Q(t)}} \\
\uparrow & & \uparrow & & \uparrow & & \uparrow \\
\dots & & B(t) & & \dots & & B(t)
\end{array} \quad (\text{A.1.2.2.9}),$$

$$\begin{array}{ccccccc}
C(t) & & \dots & & C(t) & & \dots \\
\uparrow & & \overline{\overline{W(t)}} & & \uparrow & & \overline{\overline{W(t)}} \\
\overline{P(t)} & & \uparrow & & \overline{P(t)} & & \uparrow \\
\overline{S(t)} & & \overline{\overline{J(t)}} & & \overline{S(t)} & & \overline{\overline{J(t)}} \\
\uparrow & & \uparrow & & \uparrow & & \uparrow \\
\overline{R(t)} & & \overline{\overline{H(t)}} & & \overline{R(t)} & & \overline{\overline{H(t)}} \\
\uparrow & & \uparrow & & \uparrow & & \uparrow \\
\overline{\overline{G(t)}} & \text{Zprt}(t) & \overline{\overline{F_1(t)}} & + & \overline{\overline{G(t)}} & \text{Zprt}(t) & \overline{\overline{F_1(t)} \cup \overline{\overline{F_2(t)}}} \\
\uparrow & & \uparrow & & \uparrow & & \uparrow \\
\overline{\overline{O(t)}} & & \overline{\overline{A(t)}} & & \overline{\overline{O(t)}} & & \overline{\overline{A(t)}} \\
\uparrow & & \uparrow & & \uparrow & & \uparrow \\
\overline{\overline{U(t)}} & & \overline{\overline{D(t)}} & & \overline{\overline{U(t)}} & & \overline{\overline{D(t)}} \\
\uparrow & & \uparrow & & \uparrow & & \uparrow \\
\overline{\overline{V(t)}} & & \overline{\overline{Q(t)}} & & \overline{\overline{V(t)}} & & \overline{\overline{Q(t)}} \\
\uparrow & & \uparrow & & \uparrow & & \uparrow \\
\dots & & B(t) & & \dots & & B(t)
\end{array} \quad (\text{A.1.2.2.10}),$$

$$\begin{array}{ccccccc}
C(t) & & \dots & & C(t) & & \dots \\
\uparrow & & \overline{\overline{W(t)}} & & \uparrow & & \overline{\overline{W(t)}} \\
\overline{P(t)} & & \uparrow & & \overline{P(t)} & & \uparrow \\
\overline{S_1(t)} & & \overline{J(t)} & & \overline{S_2(t)} & & \overline{J(t)} \\
\uparrow & & \uparrow & & \uparrow & & \uparrow \\
\overline{R(t)} & & \overline{H(t)} & & \overline{R(t)} & & \overline{H(t)} \\
\uparrow & & \uparrow & & \uparrow & & \uparrow \\
\overline{\overline{G(t)}} & \text{Zprt}(t) & \overline{\overline{F(t)}} & + & \overline{\overline{G(t)}} & \text{Zprt}(t) & \overline{\overline{F(t)}} = \\
\uparrow & & \uparrow & & \uparrow & & \uparrow \\
\overline{\overline{O(t)}} & & \overline{\overline{A(t)}} & & \overline{\overline{O(t)}} & & \overline{\overline{A(t)}} \\
\uparrow & & \uparrow & & \uparrow & & \uparrow \\
\overline{\overline{U(t)}} & & \overline{\overline{D(t)}} & & \overline{\overline{U(t)}} & & \overline{\overline{D(t)}} \\
\uparrow & & \uparrow & & \uparrow & & \uparrow \\
\overline{\overline{V(t)}} & & \overline{\overline{Q(t)}} & & \overline{\overline{V(t)}} & & \overline{\overline{Q(t)}} \\
\uparrow & & \uparrow & & \uparrow & & \uparrow \\
\dots & & B(t) & & \dots & & B(t)
\end{array}
\tag{A.1.2.2.10.1}$$

$$\begin{array}{ccccccc}
C(t) & & \dots & & C(t) & & \dots \\
\uparrow & & \overline{\overline{W(t)}} & & \uparrow & & \overline{\overline{W(t)}} \\
\overline{P(t)} & & \uparrow & & \overline{P(t)} & & \uparrow \\
\overline{S(t)} & & \overline{J(t)} & & \overline{S(t)} & & \overline{J(t)} \\
\uparrow & & \uparrow & & \uparrow & & \uparrow \\
\overline{R(t)} & & \overline{H(t)} & & \overline{R(t)} & & \overline{H(t)} \\
\uparrow & & \uparrow & & \uparrow & & \uparrow \\
\overline{\overline{G(t)}} & \text{Zprt}(t) & \overline{\overline{F(t)}} & + & \overline{\overline{G(t)}} & \text{Zprt}(t) & \overline{\overline{F(t)}} = \\
\uparrow & & \uparrow & & \uparrow & & \uparrow \\
\overline{\overline{O(t)}} & & \overline{\overline{A(t)}} & & \overline{\overline{O(t)}} & & \overline{\overline{A(t)}} \\
\uparrow & & \uparrow & & \uparrow & & \uparrow \\
\overline{\overline{U(t)}} & & \overline{\overline{D_1(t)}} & & \overline{\overline{U(t)}} & & \overline{\overline{D_1(t)}} \\
\uparrow & & \uparrow & & \uparrow & & \uparrow \\
\overline{\overline{V(t)}} & & \overline{\overline{Q(t)}} & & \overline{\overline{V(t)}} & & \overline{\overline{Q(t)}} \\
\uparrow & & \uparrow & & \uparrow & & \uparrow \\
\dots & & B(t) & & \dots & & B(t)
\end{array}
\tag{A.1.2.2.10.2}$$

$$\begin{array}{ccccccc}
C(t) & & \dots & & C(t) & & \dots \\
\uparrow & & \overline{\overline{W(t)}} & & \uparrow & & \overline{\overline{W(t)}} \\
\overline{P(t)} & & \uparrow & & \overline{P(t)} & & \uparrow \\
\overline{S(t)} & & \overline{\overline{J_1(t)}} & & \overline{S(t)} & & \overline{\overline{J_1(t) \cup J_2(t)}} \\
\uparrow & & \uparrow & & \uparrow & & \uparrow \\
\overline{R(t)} & & \overline{\overline{H(t)}} & & \overline{R(t)} & & \overline{\overline{H(t)}} \\
\uparrow & & \uparrow & & \uparrow & & \uparrow \\
\overline{\overline{G(t)}} & \text{Zprt}(t) & \overline{\overline{F(t)}} + & \overline{\overline{G(t)}} & \text{Zprt}(t) & \overline{\overline{F(t)}} = & \overline{\overline{G(t)}} & \text{Zprt}(t) & \overline{\overline{F(t)}} & \text{(A.1.2.2.10.5),} \\
\uparrow & & \uparrow & & \uparrow & & \uparrow & & \uparrow & \\
\overline{\overline{O(t)}} & & \overline{\overline{A(t)}} & & \overline{\overline{O(t)}} & & \overline{\overline{A(t)}} & & \overline{\overline{O(t)}} & \\
\uparrow & & \uparrow & & \uparrow & & \uparrow & & \uparrow & \\
\overline{\overline{U(t)}} & & \overline{\overline{D(t)}} & & \overline{\overline{U(t)}} & & \overline{\overline{D(t)}} & & \overline{\overline{U(t)}} & \\
\uparrow & & \uparrow & & \uparrow & & \uparrow & & \uparrow & \\
\overline{\overline{V(t)}} & & \overline{\overline{Q(t)}} & & \overline{\overline{V(t)}} & & \overline{\overline{Q(t)}} & & \overline{\overline{V(t)}} & \\
\uparrow & & \uparrow & & \uparrow & & \uparrow & & \uparrow & \\
\dots & & B(t) & & \dots & & B(t) & & \dots &
\end{array}$$

$$\begin{array}{ccccccc}
C(t) & & \dots & & C(t) & & \dots \\
\uparrow & & \overline{\overline{W_1(t)}} & & \uparrow & & \overline{\overline{W_2(t)}} \\
\overline{P(t)} & & \uparrow & & \overline{P(t)} & & \uparrow \\
\overline{S(t)} & & \overline{\overline{J(t)}} & & \overline{S(t)} & & \overline{\overline{J(t)}} \\
\uparrow & & \uparrow & & \uparrow & & \uparrow \\
\overline{R(t)} & & \overline{\overline{H(t)}} & & \overline{R(t)} & & \overline{\overline{H(t)}} \\
\uparrow & & \uparrow & & \uparrow & & \uparrow \\
\overline{\overline{G(t)}} & \text{Zprt}(t) & \overline{\overline{F(t)}} + & \overline{\overline{G(t)}} & \text{Zprt}(t) & \overline{\overline{F(t)}} = & \overline{\overline{G(t)}} & \text{Zprt}(t) & \overline{\overline{F(t)}} & \text{(A.1.2.2.10.6).} \\
\uparrow & & \uparrow & & \uparrow & & \uparrow & & \uparrow & \\
\overline{\overline{O(t)}} & & \overline{\overline{A(t)}} & & \overline{\overline{O(t)}} & & \overline{\overline{A(t)}} & & \overline{\overline{O(t)}} & \\
\uparrow & & \uparrow & & \uparrow & & \uparrow & & \uparrow & \\
\overline{\overline{U(t)}} & & \overline{\overline{D(t)}} & & \overline{\overline{U(t)}} & & \overline{\overline{D(t)}} & & \overline{\overline{U(t)}} & \\
\uparrow & & \uparrow & & \uparrow & & \uparrow & & \uparrow & \\
\overline{\overline{V(t)}} & & \overline{\overline{Q(t)}} & & \overline{\overline{V(t)}} & & \overline{\overline{Q(t)}} & & \overline{\overline{V(t)}} & \\
\uparrow & & \uparrow & & \uparrow & & \uparrow & & \uparrow & \\
\dots & & B(t) & & \dots & & B(t) & & \dots &
\end{array}$$

We consider the following self-type dynamic Zprt-structures of the first type:

$$\begin{array}{c}
 Q(t) \\
 \uparrow \\
 \overline{Q(t)} \\
 \uparrow \\
 \overline{\overline{Q(t)}} \\
 \uparrow \\
 \overbrace{Q(t)} \\
 \uparrow \\
 \overline{\overline{\overline{Q(t)}}} \\
 \uparrow \\
 \overline{\overline{Q(t)}} \text{ Zprt}(t) \\
 \uparrow \\
 \overbrace{\overline{Q(t)}} \\
 \uparrow \\
 \overline{\overline{\overline{Q(t)}}} \\
 \uparrow \\
 \overline{\overline{\overline{Q(t)}}} \\
 \uparrow \\
 \overline{\overline{\overline{Q(t)}}} \\
 \uparrow \\
 \dots
 \end{array}
 \quad
 \begin{array}{c}
 \dots \\
 \overline{\overline{\overline{Q(t)}}} \\
 \uparrow \\
 \overline{\overline{\overline{Q(t)}}} \\
 \uparrow \\
 \overline{\overline{\overline{Q(t)}}} \\
 \uparrow \\
 \overline{\overline{\overline{Q(t)}}} \\
 \uparrow \\
 \overline{\overline{\overline{Q(t)}}} \\
 \uparrow \\
 \overline{\overline{\overline{Q(t)}}} \\
 \uparrow \\
 \overline{\overline{\overline{Q(t)}}} \\
 \uparrow \\
 \overline{\overline{\overline{Q(t)}}} \\
 \uparrow \\
 Q(t)
 \end{array}
 \quad (A.1.2.3),$$

$$\begin{array}{c}
 Q(t) \\
 \uparrow \\
 \overline{Q(t)} \\
 \uparrow \\
 \overline{\overline{Q(t)}} \\
 \uparrow \\
 \overbrace{Q(t)} \\
 \uparrow \\
 \overline{\overline{\overline{Q(t)}}} \\
 \uparrow \\
 \overline{\overline{Q(t)}} \text{ Zprt}(t) \\
 \uparrow \\
 \overbrace{\overline{Q(t)}} \\
 \uparrow \\
 \overline{\overline{\overline{Q(t)}}} \\
 \uparrow \\
 \overline{\overline{\overline{Q(t)}}} \\
 \uparrow \\
 \overline{\overline{\overline{Q(t)}}} \\
 \uparrow \\
 \overline{\overline{\overline{Q(t)}}} \\
 \uparrow \\
 \overline{\overline{\overline{Q(t)}}} \\
 \uparrow \\
 \overline{\overline{\overline{Q(t)}}} \\
 \uparrow \\
 \dots
 \end{array}
 \quad
 \begin{array}{c}
 \dots \\
 \overline{\overline{\overline{A(t)}}} \\
 \uparrow \\
 \overline{\overline{\overline{Q(t)}}} \\
 \uparrow \\
 \overline{\overline{\overline{Q(t)}}} \\
 \uparrow \\
 \overline{\overline{\overline{Q(t)}}} \\
 \uparrow \\
 \overline{\overline{\overline{Q(t)}}} \\
 \uparrow \\
 \overline{\overline{\overline{Q(t)}}} \\
 \uparrow \\
 \overline{\overline{\overline{Q(t)}}} \\
 \uparrow \\
 \overline{\overline{\overline{Q(t)}}} \\
 \uparrow \\
 \overline{\overline{\overline{Q(t)}}} \\
 \uparrow \\
 \overline{\overline{\overline{Q(t)}}} \\
 \uparrow \\
 Q(t)
 \end{array}
 \quad (A.1.2.4),$$

$$\begin{array}{c}
 B(t) \\
 \uparrow \\
 \overline{Q(t)} \\
 \uparrow \\
 \overline{\overline{Q(t)}} \\
 \uparrow \\
 \overline{Q(t)} \\
 \uparrow \\
 \overline{\overline{\overline{Q(t)}}} \\
 \uparrow \\
 \overline{Q(t)} \\
 \uparrow \\
 \overline{\overline{A(t)}} \\
 \uparrow \\
 \overline{\overline{\overline{Q(t)}}} \\
 \uparrow \\
 \overline{\overline{B(t)}} \\
 \dots
 \end{array}
 \text{Zprt}(t)
 \begin{array}{c}
 \dots \\
 \overline{\overline{\overline{B(t)}}} \\
 \uparrow \\
 \overline{\overline{Q(t)}} \\
 \uparrow \\
 \overline{\overline{A(t)}} \\
 \uparrow \\
 \overline{\overline{\overline{Q(t)}}} \\
 \uparrow \\
 \overline{\overline{B(t)}} \\
 \uparrow \\
 \overline{\overline{Q(t)}} \\
 \uparrow \\
 \overline{\overline{Q(t)}} \\
 \uparrow \\
 B(t)
 \end{array}
 \text{ (A.1.2.7),}$$

and any other possible options of self for (A.1.2.1) etc.

It can be considered a simpler version of the dynamic operator

$$\begin{array}{c}
 \dots \\
 \overline{\overline{\overline{W(t)}}} \\
 \uparrow \\
 \overline{\overline{J(t)}} \\
 \uparrow \\
 \overline{\overline{H(t)}} \\
 \uparrow \\
 \overline{\overline{\overline{F(t)}}} \\
 \uparrow \\
 \overline{\overline{A(t)}} \\
 \uparrow \\
 \overline{\overline{D(t)}} \\
 \uparrow \\
 \overline{\overline{Q(t)}} \\
 \uparrow \\
 B(t)
 \end{array}
 \text{Zprt}(t)
 \text{ (A.1.2.8),}$$

where $\overline{\overline{W(t)}}$ - *parelf* levels of $W(t)$, $\overline{\overline{J(t)}}$ - singelf levels of $J(t)$, $\overline{\overline{H(t)}}$ - paradoxical upper level of $H(t)$, $\overline{\overline{F(t)}}$ - paradoxical average level of $F(t)$, $\overline{A(t)}$ - upper level of $A(t)$, $\overline{Q(t)}$ - middle₁ level of $Q(t)$, $B(t)$ goes to the middle₁ level of $Q(t)$ - $\overline{Q(t)}$, $\overline{Q(t)}$ goes to the middle₂ level $\overline{\overline{D(t)}}$, $\overline{\overline{D(t)}}$ goes to the upper level of $A(t)$ - $\overline{A(t)}$, $\overline{A(t)}$ goes to the paradoxical middle level of $F(t)$ - $\overline{\overline{F(t)}}$, $\overline{\overline{F(t)}}$ goes to the paradoxical upper level of $H(t)$ - $\overline{\overline{H(t)}}$, $\overline{\overline{H(t)}}$ goes to the singelf levels of $J(t)$ - $\overline{\overline{J(t)}}$, $\overline{\overline{J(t)}}$ goes to the *parelf* levels of $W(t)$ - $\overline{\overline{W(t)}}$ simultaneously, the result of this process

will be described by the expression

$$\begin{array}{c}
 \dots \\
 \overline{\overline{W(t)}} \\
 \uparrow \\
 \overline{\overline{J(t)}} \\
 \uparrow \\
 \overline{\overline{H(t)}} \\
 \uparrow \\
 \overline{\overline{F(t)}} \text{ (A.1.2.9),} \\
 \uparrow \\
 \overline{A(t)} \\
 \uparrow \\
 \overline{\overline{D(t)}} \\
 \uparrow \\
 \overline{Q(t)} \\
 \uparrow \\
 B(t)
 \end{array}$$

or

$$\begin{array}{c}
 C(t) \\
 \uparrow \\
 \overline{P(t)} \\
 \uparrow \\
 \overline{\overline{S(t)}} \\
 \uparrow \\
 \overline{R(t)} \\
 \uparrow \\
 \overline{\overline{G(t)}} \text{ Zprt(t) A.1.2.10),} \\
 \uparrow \\
 \overline{\overline{O(t)}} \\
 \uparrow \\
 \overline{\overline{U(t)}} \\
 \uparrow \\
 \overline{\overline{V(t)}} \\
 \dots
 \end{array}$$

where $\overline{\overline{V(t)}}$ - *parelf* levels of $V(t)$ goes to $\overline{\overline{U(t)}}$ – singelf levels of $U(t)$, $\overline{\overline{O(t)}}$ - paradoxical upper level of $O(t)$, $\overline{\overline{G(t)}}$ - paradoxical average level of $G(t)$, $\overline{\overline{R(t)}}$ - upper levels of $R(t)$, $\overline{\overline{P(t)}}$ - middle₁ level of $P(t)$, $\overline{\overline{O(t)}}$ goes to the paradoxical middle level of $G(t)$ - $\overline{\overline{G(t)}}$, $\overline{\overline{G(t)}}$ goes to the upper level of $R(t)$ - $\overline{\overline{R(t)}}$, $\overline{\overline{R(t)}}$ goes to the middle₂ level $\overline{\overline{S(t)}}$, $\overline{\overline{S(t)}}$ goes to the middle₁ level of $P(t)$ - $\overline{\overline{P(t)}}$, $\overline{\overline{P(t)}}$ goes to the lower level of $C(t)$ simultaneously, the result of this process will be described by the expression

$$\begin{array}{c}
 C(t) \\
 \uparrow \\
 \overline{\overline{P(t)}} \\
 \uparrow \\
 \overline{\overline{S(t)}} \\
 \uparrow \\
 \overline{\overline{R(t)}} \\
 \uparrow \\
 \overline{\overline{G(t)}} \text{ Zrt}(t) \text{ (A.1.2.11),} \\
 \uparrow \\
 \overline{\overline{O(t)}} \\
 \uparrow \\
 \overline{\overline{U(t)}} \\
 \uparrow \\
 \overline{\overline{V(t)}} \\
 \dots
 \end{array}$$

Definition 5

The dynamic operator (A.1.2.8) we shall call dynamic Zprt – element of the second type, (A.1.2.9) we shall call dynamic Zrt – element of the second type.

It’s allowed to add dynamic Zprt – elements of the second type:

$$\begin{array}{c}
\overline{\overline{\overline{\dots}}} \\
\overline{\overline{W(t)}} \\
\uparrow \\
\overline{\overline{J(t)}} \\
\uparrow \\
\overline{\overline{H(t)}} \\
\uparrow \\
\overline{\overline{F(t)}} \\
\uparrow \\
\overline{\overline{A_1(t)}} \\
\uparrow \\
\overline{\overline{D(t)}} \\
\uparrow \\
\overline{\overline{Q(t)}} \\
\uparrow \\
B(t)
\end{array}
+
\begin{array}{c}
\overline{\overline{\overline{\dots}}} \\
\overline{\overline{W(t)}} \\
\uparrow \\
\overline{\overline{J(t)}} \\
\uparrow \\
\overline{\overline{H(t)}} \\
\uparrow \\
\overline{\overline{F(t)}} \\
\uparrow \\
\overline{\overline{A_2(t)}} \\
\uparrow \\
\overline{\overline{D(t)}} \\
\uparrow \\
\overline{\overline{Q(t)}} \\
\uparrow \\
B(t)
\end{array}
=
\begin{array}{c}
\overline{\overline{\overline{\dots}}} \\
\overline{\overline{W(t)}} \\
\uparrow \\
\overline{\overline{J(t)}} \\
\uparrow \\
\overline{\overline{H(t)}} \\
\uparrow \\
\overline{\overline{F(t)}} \\
\uparrow \\
\overline{\overline{A_1(t) \cup A_2(t)}} \\
\uparrow \\
\overline{\overline{D(t)}} \\
\uparrow \\
\overline{\overline{Q(t)}} \\
\uparrow \\
B(t)
\end{array}
\quad (A.1.2.12),$$

$$\begin{array}{c}
\overline{\overline{\overline{\dots}}} \\
\overline{\overline{W(t)}} \\
\uparrow \\
\overline{\overline{J(t)}} \\
\uparrow \\
\overline{\overline{H(t)}} \\
\uparrow \\
\overline{\overline{F(t)}} \\
\uparrow \\
\overline{\overline{A(t)}} \\
\uparrow \\
\overline{\overline{D(t)}} \\
\uparrow \\
\overline{\overline{Q(t)}} \\
\uparrow \\
B_1(t)
\end{array}
+
\begin{array}{c}
\overline{\overline{\overline{\dots}}} \\
\overline{\overline{W(t)}} \\
\uparrow \\
\overline{\overline{J(t)}} \\
\uparrow \\
\overline{\overline{H(t)}} \\
\uparrow \\
\overline{\overline{F(t)}} \\
\uparrow \\
\overline{\overline{A(t)}} \\
\uparrow \\
\overline{\overline{D(t)}} \\
\uparrow \\
\overline{\overline{Q(t)}} \\
\uparrow \\
B_1(t)
\end{array}
=
\begin{array}{c}
\overline{\overline{\overline{\dots}}} \\
\overline{\overline{W(t)}} \\
\uparrow \\
\overline{\overline{J(t)}} \\
\uparrow \\
\overline{\overline{H(t)}} \\
\uparrow \\
\overline{\overline{F(t)}} \\
\uparrow \\
\overline{\overline{A(t)}} \\
\uparrow \\
\overline{\overline{D(t)}} \\
\uparrow \\
\overline{\overline{Q(t)}} \\
\uparrow \\
B_1(t) \cup B_2(t)
\end{array}
\quad (A.1.2.13),$$

$$\begin{array}{c}
\overline{\overline{\overline{\dots}}} \\
\overline{\overline{W(t)}} \\
\uparrow \\
\overline{\overline{J(t)}} \\
\uparrow \\
\overline{\overline{H(t)}} \\
\uparrow \\
\overline{\overline{F(t)}} \\
\text{Zprt}(t)
\end{array}
+
\begin{array}{c}
\overline{\overline{\overline{\dots}}} \\
\overline{\overline{W(t)}} \\
\uparrow \\
\overline{\overline{J(t)}} \\
\uparrow \\
\overline{\overline{H(t)}} \\
\uparrow \\
\overline{\overline{F(t)}} \\
\text{Zprt}(t)
\end{array}
=
\begin{array}{c}
\overline{\overline{\overline{\dots}}} \\
\overline{\overline{W(t)}} \\
\uparrow \\
\overline{\overline{J(t)}} \\
\uparrow \\
\overline{\overline{H(t)}} \\
\uparrow \\
\overline{\overline{F(t)}} \\
\text{Zprt}(t)
\end{array}
\quad (\text{A.1.2.13.1}),$$

$$\begin{array}{c}
\overline{\overline{\overline{\dots}}} \\
\overline{\overline{W(t)}} \\
\uparrow \\
\overline{\overline{J(t)}} \\
\uparrow \\
\overline{\overline{H_1(t)}} \\
\uparrow \\
\overline{\overline{F(t)}} \\
\text{Zprt}(t)
\end{array}
+
\begin{array}{c}
\overline{\overline{\overline{\dots}}} \\
\overline{\overline{W(t)}} \\
\uparrow \\
\overline{\overline{J(t)}} \\
\uparrow \\
\overline{\overline{H_2(t)}} \\
\uparrow \\
\overline{\overline{F(t)}} \\
\text{Zprt}(t)
\end{array}
=
\begin{array}{c}
\overline{\overline{\overline{\dots}}} \\
\overline{\overline{W(t)}} \\
\uparrow \\
\overline{\overline{J(t)}} \\
\uparrow \\
\overline{\overline{H_1(t) \cup H_2(t)}} \\
\uparrow \\
\overline{\overline{F(t)}} \\
\text{Zprt}(t)
\end{array}
\quad (\text{A.1.2.13.2}),$$

$$\begin{array}{c}
\begin{array}{ccc}
\overline{\overline{\overline{\dots}}} \\
\overline{\overline{W(t)}} \\
\uparrow \\
\overline{\overline{J(t)}} \\
\uparrow \\
\overline{\overline{H(t)}} \\
\uparrow \\
\overline{\overline{F_1(t)}} \\
\uparrow \\
\overline{\overline{A(t)}} \\
\uparrow \\
\overline{\overline{D(t)}} \\
\uparrow \\
\overline{Q(t)} \\
\uparrow \\
B(t)
\end{array}
+
\begin{array}{ccc}
\overline{\overline{\overline{\dots}}} \\
\overline{\overline{W(t)}} \\
\uparrow \\
\overline{\overline{J(t)}} \\
\uparrow \\
\overline{\overline{H(t)}} \\
\uparrow \\
\overline{\overline{F_2(t)}} \\
\uparrow \\
\overline{\overline{A(t)}} \\
\uparrow \\
\overline{\overline{D(t)}} \\
\uparrow \\
\overline{Q(t)} \\
\uparrow \\
B(t)
\end{array}
=
\begin{array}{ccc}
\overline{\overline{\overline{\dots}}} \\
\overline{\overline{W(t)}} \\
\uparrow \\
\overline{\overline{J(t)}} \\
\uparrow \\
\overline{\overline{H(t)}} \\
\uparrow \\
\overline{\overline{F_1(t) \cup F_2(t)}} \\
\uparrow \\
\overline{\overline{A(t)}} \\
\uparrow \\
\overline{\overline{D(t)}} \\
\uparrow \\
\overline{Q(t)} \\
\uparrow \\
B(t)
\end{array}
\quad (A.1.2.13.3),
\end{array}$$

$$\begin{array}{c}
\begin{array}{ccc}
\overline{\overline{\overline{\dots}}} \\
\overline{\overline{W(t)}} \\
\uparrow \\
\overline{\overline{J(t)}} \\
\uparrow \\
\overline{\overline{H(t)}} \\
\uparrow \\
\overline{\overline{F(t)}} \\
\uparrow \\
\overline{\overline{A(t)}} \\
\uparrow \\
\overline{\overline{D_1(t)}} \\
\uparrow \\
\overline{Q(t)} \\
\uparrow \\
B(t)
\end{array}
+
\begin{array}{ccc}
\overline{\overline{\overline{\dots}}} \\
\overline{\overline{W(t)}} \\
\uparrow \\
\overline{\overline{J(t)}} \\
\uparrow \\
\overline{\overline{H(t)}} \\
\uparrow \\
\overline{\overline{F(t)}} \\
\uparrow \\
\overline{\overline{A(t)}} \\
\uparrow \\
\overline{\overline{D_2(t)}} \\
\uparrow \\
\overline{Q(t)} \\
\uparrow \\
B(t)
\end{array}
=
\begin{array}{ccc}
\overline{\overline{\overline{\dots}}} \\
\overline{\overline{W(t)}} \\
\uparrow \\
\overline{\overline{J(t)}} \\
\uparrow \\
\overline{\overline{H(t)}} \\
\uparrow \\
\overline{\overline{F(t)}} \\
\uparrow \\
\overline{\overline{A(t)}} \\
\uparrow \\
\overline{\overline{D_1(t) \cup D_2(t)}} \\
\uparrow \\
\overline{Q(t)} \\
\uparrow \\
B(t)
\end{array}
\quad (A.1.2.13.3.1),
\end{array}$$

$$\begin{array}{c}
\overline{\overline{\overline{\dots}}} \\
\overline{\overline{W_1(t)}} \\
\uparrow \\
\overline{\overline{J(t)}} \\
\uparrow \\
\overline{\overline{H(t)}} \\
\uparrow \\
\overline{\overline{F(t)}} \\
\uparrow \\
\overline{\overline{A(t)}} \\
\uparrow \\
\overline{\overline{D(t)}} \\
\uparrow \\
\overline{\overline{Q(t)}} \\
\uparrow \\
B(t)
\end{array}
+
\begin{array}{c}
\overline{\overline{\overline{\dots}}} \\
\overline{\overline{W_2(t)}} \\
\uparrow \\
\overline{\overline{J(t)}} \\
\uparrow \\
\overline{\overline{H(t)}} \\
\uparrow \\
\overline{\overline{F(t)}} \\
\uparrow \\
\overline{\overline{A(t)}} \\
\uparrow \\
\overline{\overline{D(t)}} \\
\uparrow \\
\overline{\overline{Q(t)}} \\
\uparrow \\
B(t)
\end{array}
=
\begin{array}{c}
\overline{\overline{\overline{\dots}}} \\
\overline{\overline{W_1(t) \cup W_1(t)}} \\
\uparrow \\
\overline{\overline{J(t)}} \\
\uparrow \\
\overline{\overline{H(t)}} \\
\uparrow \\
\overline{\overline{F(t)}} \\
\uparrow \\
\overline{\overline{A(t)}} \\
\uparrow \\
\overline{\overline{D(t)}} \\
\uparrow \\
\overline{\overline{Q(t)}} \\
\uparrow \\
B(t)
\end{array}
\quad (A.1.2.13.3.2),$$

$$\begin{array}{c}
\overline{\overline{\overline{\dots}}} \\
\overline{\overline{W(t)}} \\
\uparrow \\
\overline{\overline{J_1(t)}} \\
\uparrow \\
\overline{\overline{H(t)}} \\
\uparrow \\
\overline{\overline{F(t)}} \\
\uparrow \\
\overline{\overline{A(t)}} \\
\uparrow \\
\overline{\overline{D(t)}} \\
\uparrow \\
\overline{\overline{Q(t)}} \\
\uparrow \\
B(t)
\end{array}
+
\begin{array}{c}
\overline{\overline{\overline{\dots}}} \\
\overline{\overline{W(t)}} \\
\uparrow \\
\overline{\overline{J_2(t)}} \\
\uparrow \\
\overline{\overline{H(t)}} \\
\uparrow \\
\overline{\overline{F(t)}} \\
\uparrow \\
\overline{\overline{A(t)}} \\
\uparrow \\
\overline{\overline{D(t)}} \\
\uparrow \\
\overline{\overline{Q(t)}} \\
\uparrow \\
B(t)
\end{array}
=
\begin{array}{c}
\overline{\overline{\overline{\dots}}} \\
\overline{\overline{W(t)}} \\
\uparrow \\
\overline{\overline{J_1(t) \cup J_2(t)}} \\
\uparrow \\
\overline{\overline{H(t)}} \\
\uparrow \\
\overline{\overline{F(t)}} \\
\uparrow \\
\overline{\overline{A(t)}} \\
\uparrow \\
\overline{\overline{D(t)}} \\
\uparrow \\
\overline{\overline{Q(t)}} \\
\uparrow \\
B(t)
\end{array}
\quad (A.1.2.13.3.3).$$

We consider the following self-type dynamic Zprt-structures of the second t type:

$$\begin{array}{c}
\cdots \\
\overline{\overline{Q(t)}} \\
\uparrow \\
\overline{\overline{Q(t)}} \\
\uparrow \\
\overline{\overline{\text{str } A(t)}} \\
\uparrow \\
Z_{\text{prt}}(t) \quad \overline{\overline{Q(t)}} \quad (\text{A.1.2.14}), \\
\uparrow \\
\overline{\overline{Q(t)}} \\
\uparrow \\
\overline{\overline{Q(t)}} \\
\uparrow \\
\overline{\overline{Q(t)}} \\
\uparrow \\
H(t) \\
\cdots \\
\overline{\overline{Q(t)}} \\
\uparrow \\
\overline{\overline{Q(t)}} \\
\uparrow \\
\overline{\overline{\text{str } A(t)}} \\
\uparrow \\
Z_{\text{prt}}(t) \quad \overline{\overline{Q(t)}} \quad (\text{A.1.2.14.1}), \\
\uparrow \\
\overline{\overline{Q(t)}} \\
\uparrow \\
\overline{\overline{Q(t)}} \\
\uparrow \\
\overline{\overline{Q(t)}} \\
\uparrow \\
a(t)
\end{array}$$

denote $Z_{13}(t) f A(t); Q(t); a(t), a(t) \subset A(t)$,

$$\begin{array}{c}
\cdots \\
\overline{\overline{a(t)}} \\
\uparrow \\
\overline{\overline{Q(t)}} \\
\uparrow \\
str \overline{\overline{A(t)}} \\
\uparrow \\
Z_{prt}(t) \overline{\overline{Q(t)}} \quad (A.1.2.15), \\
\uparrow \\
\overline{\overline{Q(t)}} \\
\uparrow \\
\overline{\overline{Q(t)}} \\
\uparrow \\
\overline{\overline{Q(t)}} \\
\uparrow \\
str A(t)
\end{array}$$

denote $Z_{14}(t)fa(t); Q(t); A(t), a(t) \subset A(t)$,

$$\begin{array}{c}
\cdots \\
\overline{\overline{Q(t)}} \\
\uparrow \\
\overline{\overline{Q(t)}} \\
\uparrow \\
\overline{\overline{Q(t)}} \\
\uparrow \\
Z_{prt}(t) \overline{\overline{Q(t)}} \quad (A.1.2.16), \\
\uparrow \\
\overline{\overline{A(t)}} \\
\uparrow \\
\overline{\overline{Q(t)}} \\
\uparrow \\
\overline{\overline{Q(t)}} \\
\uparrow \\
Q(t)
\end{array}$$

and any other possible options of self for (A.1.2.8) etc.

Definition 6

The dynamic operator (A.1.2.10) we shall call dynamic tprZ – element, (A.1.2.11) we shall call dynamic trZ – element.

It's allowed to add dynamic tprZ – elements:

$$\begin{array}{ccc}
 C_1(t) & C_2(t) & C_1(t) \cup C_2(t) \\
 \uparrow & \uparrow & \uparrow \\
 \overline{P(t)} & \overline{P(t)} & \overline{P(t)} \\
 \uparrow & \uparrow & \uparrow \\
 \overline{\overline{S(t)}} & \overline{\overline{S(t)}} & \overline{\overline{S(t)}} \\
 \uparrow & \uparrow & \uparrow \\
 \overline{R(t)} & \overline{R(t)} & \overline{R(t)} \\
 \uparrow & \uparrow & \uparrow \\
 \overline{\overline{\overline{G(t)}}} & \overline{\overline{\overline{G(t)}}} & \overline{\overline{\overline{G(t)}}} \\
 \text{Zprt}(t) + & \text{Zprt}(t) = & \text{Zprt}(t) \text{ (A.1.2.17),} \\
 \uparrow & \uparrow & \uparrow \\
 \overline{\overline{\overline{O(t)}}} & \overline{\overline{\overline{O(t)}}} & \overline{\overline{\overline{O(t)}}} \\
 \uparrow & \uparrow & \uparrow \\
 \overline{\overline{\overline{U(t)}}} & \overline{\overline{\overline{U(t)}}} & \overline{\overline{\overline{U(t)}}} \\
 \uparrow & \uparrow & \uparrow \\
 \overline{\overline{\overline{V(t)}}} & \overline{\overline{\overline{V(t)}}} & \overline{\overline{\overline{V(t)}}} \\
 \dots & \dots & \dots \\
 C(t) & C(t) & C(t) \\
 \uparrow & \uparrow & \uparrow \\
 \overline{P(t)} & \overline{P(t)} & \overline{P(t)} \\
 \uparrow & \uparrow & \uparrow \\
 \overline{\overline{S(t)}} & \overline{\overline{S(t)}} & \overline{\overline{S(t)}} \\
 \uparrow & \uparrow & \uparrow \\
 \overline{R_1(t)} & \overline{R_2(t)} & \overline{R_1(t) \cup R_2(t)} \\
 \uparrow & \uparrow & \uparrow \\
 \overline{\overline{\overline{G(t)}}} & \overline{\overline{\overline{G(t)}}} & \overline{\overline{\overline{G(t)}}} \\
 \text{Zprt}(t) + & \text{Zprt}(t) = & \text{Zprt}(t) \text{ (A.1.2.18),} \\
 \uparrow & \uparrow & \uparrow \\
 \overline{\overline{\overline{O(t)}}} & \overline{\overline{\overline{O(t)}}} & \overline{\overline{\overline{O(t)}}} \\
 \uparrow & \uparrow & \uparrow \\
 \overline{\overline{\overline{U(t)}}} & \overline{\overline{\overline{U(t)}}} & \overline{\overline{\overline{U(t)}}} \\
 \uparrow & \uparrow & \uparrow \\
 \overline{\overline{\overline{V(t)}}} & \overline{\overline{\overline{V(t)}}} & \overline{\overline{\overline{V(t)}}} \\
 \dots & \dots & \dots
 \end{array}$$

$$\begin{array}{ccc}
C(t) & C(t) & C(t) \\
\uparrow & \uparrow & \uparrow \\
\overline{P_1(t)} & \overline{P_2(t)} & \overline{P_1(t) \cup P_2(t)} \\
\uparrow & \uparrow & \uparrow \\
\overline{\overline{S(t)}} & \overline{\overline{S(t)}} & \overline{\overline{S(t)}} \\
\uparrow & \uparrow & \uparrow \\
\overline{R(t)} & \overline{R(t)} & \overline{R(t)} \\
\uparrow & \uparrow & \uparrow \\
\overline{\overline{\overline{G(t)}}} & \overline{\overline{\overline{G(t)}}} & \overline{\overline{\overline{G(t)}}} \\
\uparrow & \uparrow & \uparrow \\
\overline{\overline{\overline{O(t)}}} & \overline{\overline{\overline{O(t)}}} & \overline{\overline{\overline{O(t)}}} \\
\uparrow & \uparrow & \uparrow \\
\overline{\overline{\overline{U(t)}}} & \overline{\overline{\overline{U(t)}}} & \overline{\overline{\overline{U(t)}}} \\
\uparrow & \uparrow & \uparrow \\
\overline{\overline{\overline{V(t)}}} & \overline{\overline{\overline{V(t)}}} & \overline{\overline{\overline{V(t)}}} \\
\dots & \dots & \dots
\end{array}$$

$$Z_{\text{prt}}(t) + Z_{\text{prt}}(t) = Z_{\text{prt}}(t) \quad (\text{A.1.2.18.1}),$$

$$\begin{array}{ccc}
C(t) & C(t) & C(t) \\
\uparrow & \uparrow & \uparrow \\
\overline{P(t)} & \overline{P(t)} & \overline{P(t)} \\
\uparrow & \uparrow & \uparrow \\
\overline{\overline{S(t)}} & \overline{\overline{S(t)}} & \overline{\overline{S(t)}} \\
\uparrow & \uparrow & \uparrow \\
\overline{R(t)} & \overline{R(t)} & \overline{R(t)} \\
\uparrow & \uparrow & \uparrow \\
\overline{\overline{\overline{G_1(t)}}} & \overline{\overline{\overline{G_2(t)}}} & \overline{\overline{\overline{G_1(t) \cup G_2(t)}}} \\
\uparrow & \uparrow & \uparrow \\
\overline{\overline{\overline{O(t)}}} & \overline{\overline{\overline{O(t)}}} & \overline{\overline{\overline{O(t)}}} \\
\uparrow & \uparrow & \uparrow \\
\overline{\overline{\overline{U(t)}}} & \overline{\overline{\overline{U(t)}}} & \overline{\overline{\overline{U(t)}}} \\
\uparrow & \uparrow & \uparrow \\
\overline{\overline{\overline{V(t)}}} & \overline{\overline{\overline{V(t)}}} & \overline{\overline{\overline{V(t)}}} \\
\dots & \dots & \dots
\end{array}$$

$$Z_{\text{prt}}(t) + Z_{\text{prt}}(t) = Z_{\text{prt}}(t) \quad (\text{A.1.2.18.2}),$$

$$\begin{array}{ccc}
C(t) & C(t) & C(t) \\
\uparrow & \uparrow & \uparrow \\
\overline{P(t)} & \overline{P(t)} & \overline{P(t)} \\
\uparrow & \uparrow & \uparrow \\
\overline{S(t)} & \overline{S(t)} & \overline{S(t)} \\
\uparrow & \uparrow & \uparrow \\
\overbrace{R(t)} & \overbrace{R(t)} & \overbrace{R(t)} \\
\uparrow & \uparrow & \uparrow \\
\overline{\overline{G(t)}} & \overline{\overline{G(t)}} & \overline{\overline{G(t)}} \\
Z_{\text{prt}}(t) + & Z_{\text{prt}}(t) = & Z_{\text{prt}}(t) \text{ (A.1.2.18.3),} \\
\uparrow & \uparrow & \uparrow \\
\overbrace{O_1(t)} & \overbrace{O_2(t)} & \overbrace{O_1(t) \cup O_2(t)} \\
\uparrow & \uparrow & \uparrow \\
\overbrace{U(t)} & \overbrace{U(t)} & \overbrace{U(t)} \\
\uparrow & \uparrow & \uparrow \\
\overline{\overline{V(t)}} & \overline{\overline{V(t)}} & \overline{\overline{V(t)}} \\
\vdots & \vdots & \vdots
\end{array}$$

$$\begin{array}{ccc}
C(t) & C(t) & C(t) \\
\uparrow & \uparrow & \uparrow \\
\overline{P(t)} & \overline{P(t)} & \overline{P(t)} \\
\uparrow & \uparrow & \uparrow \\
\overline{S_1(t)} & \overline{S_2(t)} & \overline{S_1(t) \cup S_2(t)} \\
\uparrow & \uparrow & \uparrow \\
\overbrace{R(t)} & \overbrace{R(t)} & \overbrace{R(t)} \\
\uparrow & \uparrow & \uparrow \\
\overline{\overline{G(t)}} & \overline{\overline{G(t)}} & \overline{\overline{G(t)}} \\
Z_{\text{prt}}(t) + & Z_{\text{prt}}(t) = & Z_{\text{prt}}(t) \text{ (A.1.2.18.3.1),} \\
\uparrow & \uparrow & \uparrow \\
\overbrace{O(t)} & \overbrace{O(t)} & \overbrace{O(t)} \\
\uparrow & \uparrow & \uparrow \\
\overbrace{U(t)} & \overbrace{U(t)} & \overbrace{U(t)} \\
\uparrow & \uparrow & \uparrow \\
\overline{\overline{V(t)}} & \overline{\overline{V(t)}} & \overline{\overline{V(t)}} \\
\vdots & \vdots & \vdots
\end{array}$$

$$\begin{array}{ccc}
\begin{array}{c}
C(t) \\
\uparrow \\
\overline{P(t)} \\
\uparrow \\
\overline{S(t)} \\
\uparrow \\
\overline{R(t)} \\
\uparrow \\
\overline{\overline{G(t)}} \\
\uparrow \\
\overline{\overline{O(t)}} \\
\uparrow \\
\overline{\overline{U_1(t)}} \\
\uparrow \\
\overline{\overline{V(t)}} \\
\cdots
\end{array}
&
+ \text{Zprt}(t) &
\begin{array}{c}
C(t) \\
\uparrow \\
\overline{P(t)} \\
\uparrow \\
\overline{S(t)} \\
\uparrow \\
\overline{R(t)} \\
\uparrow \\
\overline{\overline{G(t)}} \\
\uparrow \\
\overline{\overline{O(t)}} \\
\uparrow \\
\overline{\overline{U_2(t)}} \\
\uparrow \\
\overline{\overline{V(t)}} \\
\cdots
\end{array}
&
= &
\begin{array}{c}
C(t) \\
\uparrow \\
\overline{P(t)} \\
\uparrow \\
\overline{S(t)} \\
\uparrow \\
\overline{R(t)} \\
\uparrow \\
\overline{\overline{G(t)}} \\
\uparrow \\
\overline{\overline{O(t)}} \\
\uparrow \\
\overline{\overline{U_1(t)} \cup \overline{\overline{U_2(t)}}} \\
\uparrow \\
\overline{\overline{V(t)}} \\
\cdots
\end{array}
&
\text{Zprt}(t) \text{ (A.1.2.18.3.2),}
\end{array}$$

$$\begin{array}{ccc}
\begin{array}{c}
C(t) \\
\uparrow \\
\overline{P(t)} \\
\uparrow \\
\overline{S(t)} \\
\uparrow \\
\overline{R(t)} \\
\uparrow \\
\overline{\overline{G(t)}} \\
\uparrow \\
\overline{\overline{O(t)}} \\
\uparrow \\
\overline{\overline{U(t)}} \\
\uparrow \\
\overline{\overline{V_1(t)}} \\
\cdots
\end{array}
&
+ \text{Zprt}(t) &
\begin{array}{c}
C(t) \\
\uparrow \\
\overline{P(t)} \\
\uparrow \\
\overline{S(t)} \\
\uparrow \\
\overline{R(t)} \\
\uparrow \\
\overline{\overline{G(t)}} \\
\uparrow \\
\overline{\overline{O(t)}} \\
\uparrow \\
\overline{\overline{U(t)}} \\
\uparrow \\
\overline{\overline{V_2(t)}} \\
\cdots
\end{array}
&
= &
\begin{array}{c}
C(t) \\
\uparrow \\
\overline{P(t)} \\
\uparrow \\
\overline{S(t)} \\
\uparrow \\
\overline{R(t)} \\
\uparrow \\
\overline{\overline{G(t)}} \\
\uparrow \\
\overline{\overline{O(t)}} \\
\uparrow \\
\overline{\overline{U(t)}} \\
\uparrow \\
\overline{\overline{V_1(t)} \cup \overline{\overline{V_2(t)}}} \\
\cdots
\end{array}
&
\text{Zprt}(t) \text{ (A.1.2.18.3.3).}
\end{array}$$

We consider the following self-type dynamic tprZ-structures:

$$\begin{array}{c}
 Q(t) \\
 \uparrow \\
 \overline{Q(t)} \\
 \uparrow \\
 \overline{\overline{Q(t)}} \\
 \uparrow \\
 \overbrace{R(t)} \\
 \uparrow \\
 \overline{\overline{\overline{R(t)}}} \\
 \uparrow \\
 \overbrace{R(t)} \\
 \uparrow \\
 \overline{\overline{\overline{R(t)}}} \\
 \uparrow \\
 \overbrace{R(t)} \\
 \dots
 \end{array}$$

$Z_{prt}(t)(A.1.2.19)$

$$\begin{array}{c}
 strD(t) \\
 \uparrow \\
 \overline{R(t)} \\
 \uparrow \\
 \overline{\overline{R(t)}} \\
 \uparrow \\
 \overbrace{R(t)} \\
 \uparrow \\
 \overline{\overline{\overline{R(t)}}} \\
 \uparrow \\
 \overbrace{R(t)} \\
 \uparrow \\
 \overline{\overline{\overline{R(t)}}} \\
 \uparrow \\
 \overbrace{d(t)} \\
 \dots
 \end{array}$$

$Z_{prt}(t) (A.1.2.19.1),$

denote $Z_{15}(t)fd(t); R(t); D(t), d(t) \subset D(t),$

$$\begin{array}{c}
 d(t) \\
 \uparrow \\
 \overline{R(t)} \\
 \uparrow \\
 \overline{\overline{R(t)}} \\
 \uparrow \\
 \overline{D(t)} \\
 \uparrow \\
 \overline{\overline{D(t)}} \\
 \overline{D(t)} Z_{\text{prt}}(t) \text{ (A.1.2.20)} \\
 \uparrow \\
 \overline{\overline{D(t)}} \\
 \uparrow \\
 \overline{\overline{D(t)}} \\
 \uparrow \\
 \overline{\overline{D(t)}} \\
 \dots
 \end{array}$$

denote $Z_{16}(t) f D(t); \overline{P(t)}; d(t), d(t) \subset D(t)$,

$$\begin{array}{c}
 P(t) \\
 \uparrow \\
 \overline{P(t)} \\
 \uparrow \\
 \overline{\overline{P(t)}} \\
 \uparrow \\
 \overline{R(t)} \\
 \uparrow \\
 \overline{\overline{R(t)}} \\
 \overline{R(t)} Z_{\text{prt}}(t) \text{ (A.1.2.21)} \\
 \uparrow \\
 \overline{\overline{R(t)}} \\
 \uparrow \\
 \overline{\overline{R(t)}} \\
 \uparrow \\
 \overline{\overline{R(t)}} \\
 \dots
 \end{array}$$

and any other possible options of self for (A.1.2.10) etc.

New mathematical structures and operators is carried out with generalization it to any structures with any actions. For example,

$$1) \quad \begin{array}{ccccccc}
 f_{11} & \dots & f_{1k} & q_{11} & \dots & q_{1n} & \\
 \dots & \dots & \dots & & & & \\
 (q_{j1})^{-1} & \dots & (q_{jk})^{-1} Z Z_{\text{prt}} & \dots & \dots & (*) & \\
 \dots & \dots & \dots & q_{m1} & \dots & q_{mn} & \\
 f_{i1} & \dots & f_{ik} & & & &
 \end{array}$$

f_{ij}, q_{ij} – any objects, actions etc.

$$2) \begin{matrix} & g_{11} & g_{12} & & w_{11} & w_{12} & & w_{1n} \\ & (w_{j1})^{-1} & (w_{j2})^{-1} & g_{13} & \dots & \dots & & w_{2n} \\ & g_{31} & \dots & (w_{j3})^{-1} & ZGZprt & \dots & & \dots \\ & & g_{k2} & & w_{m1} & w_{m2} & \dots & w_{sn} & w_{ml} \end{matrix} (*_1),$$

w_{ij}, g_{ij} – any objects, actions etc.

$$3) \begin{matrix} a & b & g \\ c & AZZrq(\mu) & w (*_2), \\ d & q & r \end{matrix}$$

where $AZZrq$ is virtual structure or virtual operator, which can take any form of action; a, c, d, q, r, w, g, b, μ – any objects, actions etc.

Accordingly, we can consider all sorts of self-type structures for 1) – 3). And any other possible structures and operators etc.

3. FZprt – Elements, Self-Type FZprt-Structures

We consider fuzzy dynamic operator

$$\begin{matrix} C \\ \uparrow \\ \bar{P} \\ \uparrow \\ \bar{S} \\ \uparrow \\ \bar{R} \\ \uparrow \\ \bar{G} \\ \uparrow \\ \bar{A} \\ \uparrow \\ \bar{U} \\ \uparrow \\ \bar{V} \\ \dots \end{matrix} \begin{matrix} \dots \\ \bar{W} \\ \uparrow \\ \bar{J} \\ \uparrow \\ \bar{H} \\ \uparrow \\ \bar{F} \\ \uparrow \\ \bar{A} \\ \uparrow \\ \bar{D} \\ \uparrow \\ \bar{Q} \\ \uparrow \\ B \end{matrix} \text{ FZprt (A.2.11),}$$

where \bar{W}, \bar{V} - *parelf* levels of fuzzy W and fuzzy V respectively, \bar{J}, \bar{U} – *singelf* levels of fuzzy J and fuzzy U respectively, \bar{H}, \bar{O} - paradoxical upper levels of fuzzy H and fuzzy O respectively, \bar{F}, \bar{G} - paradoxical average levels of fuzzy F and fuzzy G respectively, \bar{A}, \bar{R} - upper levels of fuzzy A and fuzzy R respectively, \bar{Q}, \bar{P} - middle₁ levels of fuzzy Q and fuzzy P respectively, fuzzy B

goes to the middle₁ level of fuzzy Q - \bar{Q} , fuzzy \bar{Q} goes to the middle₂ level $\bar{\bar{D}}$, fuzzy $\bar{\bar{D}}$ goes to the upper level of A - \tilde{A} , \tilde{A} goes to the paradoxical middle level of F - $\bar{\bar{F}}$, $\bar{\bar{F}}$ goes to the paradoxical upper level of H - $\tilde{\tilde{H}}$, $\tilde{\tilde{H}}$ goes to the single levels of J - $\bar{\tilde{J}}$, $\bar{\tilde{J}}$ goes to the *parelf* levels of W - $\bar{\tilde{\tilde{W}}}$, $\bar{\tilde{\tilde{W}}}$ goes to the $\bar{\tilde{\tilde{U}}}$, $\bar{\tilde{\tilde{U}}}$ goes to the $\bar{\tilde{\tilde{O}}}$, $\bar{\tilde{\tilde{O}}}$ goes to the paradoxical middle level of G - $\bar{\bar{G}}$, fuzzy $\bar{\bar{G}}$ goes to the upper level of R - \tilde{R} , \tilde{R} goes to the middle₂ level $\bar{\bar{S}}$, fuzzy $\bar{\bar{S}}$ goes to the middle₁ level of P - \bar{P} , \bar{P} goes to the lower level of fuzzy C simultaneously. The result of this process will be described by the expression

$$\begin{array}{c}
 C \\
 \uparrow \\
 \bar{P} \\
 \uparrow \\
 \bar{\bar{S}} \\
 \uparrow \\
 \tilde{R} \\
 \uparrow \\
 \bar{\bar{G}} \\
 \uparrow \\
 \tilde{\tilde{A}} \\
 \uparrow \\
 \bar{\tilde{\tilde{U}}} \\
 \uparrow \\
 \bar{\tilde{\tilde{V}}} \\
 \dots
 \end{array}
 \text{FZrt}
 \begin{array}{c}
 \dots \\
 \bar{\tilde{\tilde{W}}} \\
 \uparrow \\
 \bar{\tilde{\tilde{J}}} \\
 \uparrow \\
 \tilde{\tilde{H}} \\
 \uparrow \\
 \bar{\bar{F}} \\
 \uparrow \\
 \tilde{A} \\
 \uparrow \\
 \bar{\bar{D}} \\
 \uparrow \\
 \bar{Q} \\
 \uparrow \\
 B
 \end{array}
 \quad (\text{A.2.12}).$$

Definition 7

The fuzzy dynamic operator (A.2.11) we shall call FZprt – element of the first type, (A.2.12) we shall call FZrt – element of the first type.

Remark 4

Can consider FZprt – elements use the Banach space.

It's allowed to add FZprt – elements:

It's allowed to add Zprt – elements:

$$\begin{array}{ccccccc}
C_1 & \dots & C_2 & \dots & C_1 \cup C_2 & \dots & \\
\uparrow & \overline{\overline{\overline{W}}} & \uparrow & \overline{\overline{\overline{W}}} & \uparrow & \overline{\overline{\overline{W}}} & \\
\overline{P} & \uparrow & \overline{P} & \uparrow & \overline{P} & \uparrow & \\
\overline{S} & \uparrow & \overline{S} & \uparrow & \overline{S} & \uparrow & \\
\overline{R} & \uparrow & \overline{R} & \uparrow & \overline{R} & \uparrow & \\
\overline{G} & \uparrow & \overline{G} & \uparrow & \overline{G} & \uparrow & \\
\text{FZprt} & \overline{\overline{\overline{F}}} & + & \text{FZprt} & \overline{\overline{\overline{F}}} & = & \text{FZprt} & \overline{\overline{\overline{F}}} & \text{(A.2.12.3),} \\
\overline{O} & \uparrow & \overline{O} & \uparrow & \overline{O} & \uparrow & \\
\overline{U} & \uparrow & \overline{U} & \uparrow & \overline{U} & \uparrow & \\
\overline{V} & \uparrow & \overline{V} & \uparrow & \overline{V} & \uparrow & \\
\dots & B & \dots & B & \dots & B &
\end{array}$$

$$\begin{array}{ccccccc}
C & \dots & C & \dots & C & \dots & \\
\uparrow & \overline{\overline{\overline{W}}} & \uparrow & \overline{\overline{\overline{W}}} & \uparrow & \overline{\overline{\overline{W}}} & \\
\overline{P} & \uparrow & \overline{P} & \uparrow & \overline{P} & \uparrow & \\
\overline{S} & \uparrow & \overline{S} & \uparrow & \overline{S} & \uparrow & \\
\overline{R}_1 & \uparrow & \overline{R}_2 & \uparrow & \overline{R}_1 \cup \overline{R}_2 & \uparrow & \\
\overline{G} & \uparrow & \overline{G} & \uparrow & \overline{G} & \uparrow & \\
\text{FZprt} & \overline{\overline{\overline{F}}} & + & \text{FZprt} & \overline{\overline{\overline{F}}} & = & \text{FZprt} & \overline{\overline{\overline{F}}} & \text{(A.2.12.4),} \\
\overline{O} & \uparrow & \overline{O} & \uparrow & \overline{O} & \uparrow & \\
\overline{U} & \uparrow & \overline{U} & \uparrow & \overline{U} & \uparrow & \\
\overline{V} & \uparrow & \overline{V} & \uparrow & \overline{V} & \uparrow & \\
\dots & B & \dots & B & \dots & B &
\end{array}$$

$$\begin{array}{c}
C \\
\uparrow \\
\overline{P_1} \\
\uparrow \\
\overline{S} \\
\uparrow \\
\overline{R} \\
\uparrow \\
\overline{G} \\
\uparrow \\
\overline{O} \\
\uparrow \\
\overline{U} \\
\uparrow \\
\overline{V} \\
\vdots
\end{array}
\begin{array}{c}
\overline{FZprt} \\
+ \\
\overline{FZprt}
\end{array}
\begin{array}{c}
\vdots \\
\overline{W} \\
\uparrow \\
\overline{J} \\
\uparrow \\
\overline{H} \\
\uparrow \\
\overline{F} \\
\uparrow \\
\overline{A} \\
\uparrow \\
\overline{D} \\
\uparrow \\
\overline{Q} \\
\uparrow \\
B
\end{array}
+
\begin{array}{c}
\vdots \\
\overline{W} \\
\uparrow \\
\overline{J} \\
\uparrow \\
\overline{H} \\
\uparrow \\
\overline{G} \\
\uparrow \\
\overline{O} \\
\uparrow \\
\overline{U} \\
\uparrow \\
\overline{V} \\
\vdots
\end{array}
\begin{array}{c}
\overline{FZprt} \\
= \\
\overline{FZprt}
\end{array}
\begin{array}{c}
C \\
\uparrow \\
\overline{P_1} \cup \overline{P_2} \\
\uparrow \\
\overline{S} \\
\uparrow \\
\overline{R} \\
\uparrow \\
\overline{G} \\
\uparrow \\
\overline{O} \\
\uparrow \\
\overline{U} \\
\uparrow \\
\overline{V} \\
\vdots
\end{array}
\begin{array}{c}
\overline{FZprt} \\
= \\
\overline{FZprt}
\end{array}
\begin{array}{c}
\vdots \\
\overline{W} \\
\uparrow \\
\overline{J} \\
\uparrow \\
\overline{H} \\
\uparrow \\
\overline{F} \\
\uparrow \\
\overline{A} \\
\uparrow \\
\overline{D} \\
\uparrow \\
\overline{Q} \\
\uparrow \\
B
\end{array}
\quad (A.2.12.5),$$

$$\begin{array}{c}
C \\
\uparrow \\
\overline{P} \\
\uparrow \\
\overline{S} \\
\uparrow \\
\overline{R} \\
\uparrow \\
\overline{G} \\
\uparrow \\
\overline{O} \\
\uparrow \\
\overline{U} \\
\uparrow \\
\overline{V} \\
\vdots
\end{array}
\begin{array}{c}
\overline{FZprt} \\
+ \\
\overline{FZprt}
\end{array}
\begin{array}{c}
\vdots \\
\overline{W} \\
\uparrow \\
\overline{J} \\
\uparrow \\
\overline{H} \\
\uparrow \\
\overline{F} \\
\uparrow \\
\overline{A} \\
\uparrow \\
\overline{D} \\
\uparrow \\
\overline{Q_1} \\
\uparrow \\
B
\end{array}
+
\begin{array}{c}
\vdots \\
\overline{W} \\
\uparrow \\
\overline{J} \\
\uparrow \\
\overline{H} \\
\uparrow \\
\overline{G} \\
\uparrow \\
\overline{O} \\
\uparrow \\
\overline{U} \\
\uparrow \\
\overline{V} \\
\vdots
\end{array}
\begin{array}{c}
\overline{FZprt} \\
= \\
\overline{FZprt}
\end{array}
\begin{array}{c}
C \\
\uparrow \\
\overline{P} \\
\uparrow \\
\overline{S} \\
\uparrow \\
\overline{R} \\
\uparrow \\
\overline{G} \\
\uparrow \\
\overline{O} \\
\uparrow \\
\overline{U} \\
\uparrow \\
\overline{V} \\
\vdots
\end{array}
\begin{array}{c}
\overline{FZprt} \\
= \\
\overline{FZprt}
\end{array}
\begin{array}{c}
\vdots \\
\overline{W} \\
\uparrow \\
\overline{J} \\
\uparrow \\
\overline{H} \\
\uparrow \\
\overline{F} \\
\uparrow \\
\overline{A} \\
\uparrow \\
\overline{D} \\
\uparrow \\
\overline{Q_1} \cup \overline{Q_2} \\
\uparrow \\
B
\end{array}
\quad (A.2.12.6),$$

$$\begin{array}{ccccccc}
C & \uparrow & \bar{P} & \uparrow & \bar{S} & \uparrow & \tilde{R} & \uparrow & \equiv & G & \uparrow & \tilde{O} & \uparrow & \bar{U} & \uparrow & \equiv & \tilde{V} & \uparrow & \dots \\
\vdots & & \tilde{W} & \uparrow & \bar{J} & \uparrow & \tilde{H} & \uparrow & \equiv & F_1 & \uparrow & \tilde{A} & \uparrow & \bar{D} & \uparrow & \bar{Q} & \uparrow & B & \\
C & \uparrow & \bar{P} & \uparrow & \bar{S} & \uparrow & \tilde{R} & \uparrow & \equiv & G & \uparrow & \tilde{O} & \uparrow & \bar{U} & \uparrow & \equiv & \tilde{V} & \uparrow & \dots \\
\vdots & & \tilde{W} & \uparrow & \bar{J} & \uparrow & \tilde{H} & \uparrow & \equiv & F_2 & \uparrow & \tilde{A} & \uparrow & \bar{D} & \uparrow & \bar{Q} & \uparrow & B & \\
C & \uparrow & \bar{P} & \uparrow & \bar{S} & \uparrow & \tilde{R} & \uparrow & \equiv & G & \uparrow & \tilde{O} & \uparrow & \bar{U} & \uparrow & \equiv & \tilde{V} & \uparrow & \dots \\
\vdots & & \tilde{W} & \uparrow & \bar{J} & \uparrow & \tilde{H} & \uparrow & \equiv & F_1 \cup F_2 & \uparrow & \tilde{A} & \uparrow & \bar{D} & \uparrow & \bar{Q} & \uparrow & B & \\
\end{array} \quad (\text{A.2.12.7}),$$

$$\begin{array}{ccccccc}
C & \uparrow & \bar{P} & \uparrow & \bar{S} & \uparrow & \tilde{R} & \uparrow & \equiv & G_1 & \uparrow & \tilde{O} & \uparrow & \bar{U} & \uparrow & \equiv & \tilde{V} & \uparrow & \dots \\
\vdots & & \tilde{W} & \uparrow & \bar{J} & \uparrow & \tilde{H} & \uparrow & \equiv & F & \uparrow & \tilde{A} & \uparrow & \bar{D} & \uparrow & \bar{Q} & \uparrow & B & \\
C & \uparrow & \bar{P} & \uparrow & \bar{S} & \uparrow & \tilde{R} & \uparrow & \equiv & G_2 & \uparrow & \tilde{O} & \uparrow & \bar{U} & \uparrow & \equiv & \tilde{V} & \uparrow & \dots \\
\vdots & & \tilde{W} & \uparrow & \bar{J} & \uparrow & \tilde{H} & \uparrow & \equiv & F & \uparrow & \tilde{A} & \uparrow & \bar{D} & \uparrow & \bar{Q} & \uparrow & B & \\
C & \uparrow & \bar{P} & \uparrow & \bar{S} & \uparrow & \overbrace{R} & \uparrow & \equiv & G_1 \cup G_2 & \uparrow & \tilde{O} & \uparrow & \bar{U} & \uparrow & \equiv & \tilde{V} & \uparrow & \dots \\
\vdots & & \tilde{W} & \uparrow & \bar{J} & \uparrow & \tilde{H} & \uparrow & \equiv & F & \uparrow & \tilde{A} & \uparrow & \bar{D} & \uparrow & \bar{Q} & \uparrow & B & \\
\end{array} \quad (\text{A.2.12.8}),$$

$$\begin{array}{c}
C \\
\uparrow \\
\bar{P} \\
\uparrow \\
\bar{S}_1 \\
\uparrow \\
\bar{R} \\
\uparrow \\
\bar{G} \\
\uparrow \\
\bar{O} \\
\uparrow \\
\bar{U} \\
\uparrow \\
\bar{V} \\
\vdots
\end{array}
\text{FZprt}
\begin{array}{c}
\vdots \\
\bar{W} \\
\uparrow \\
\bar{J} \\
\uparrow \\
\bar{H} \\
\uparrow \\
\bar{F} \\
\uparrow \\
\bar{A} \\
\uparrow \\
\bar{D} \\
\uparrow \\
\bar{Q} \\
\uparrow \\
B
\end{array}
+
\begin{array}{c}
C \\
\uparrow \\
\bar{P} \\
\uparrow \\
\bar{S}_2 \\
\uparrow \\
\bar{R} \\
\uparrow \\
\bar{G} \\
\uparrow \\
\bar{O} \\
\uparrow \\
\bar{U} \\
\uparrow \\
\bar{V} \\
\vdots
\end{array}
\text{FZprt}
\begin{array}{c}
\vdots \\
\bar{W} \\
\uparrow \\
\bar{J} \\
\uparrow \\
\bar{H} \\
\uparrow \\
\bar{F} \\
\uparrow \\
\bar{A} \\
\uparrow \\
\bar{D} \\
\uparrow \\
\bar{Q} \\
\uparrow \\
B
\end{array}
=
\begin{array}{c}
C \\
\uparrow \\
\bar{P} \\
\uparrow \\
\bar{S}_1 \cup \bar{S}_2 \\
\uparrow \\
\bar{R} \\
\uparrow \\
\bar{G} \\
\uparrow \\
\bar{O} \\
\uparrow \\
\bar{U} \\
\uparrow \\
\bar{V} \\
\vdots
\end{array}
\text{FZprt}
\begin{array}{c}
\vdots \\
\bar{W} \\
\uparrow \\
\bar{J} \\
\uparrow \\
\bar{H} \\
\uparrow \\
\bar{F} \\
\uparrow \\
\bar{A} \\
\uparrow \\
\bar{D} \\
\uparrow \\
\bar{Q} \\
\uparrow \\
B
\end{array}
\quad (\text{A.2.12.9}),$$

$$\begin{array}{c}
C \\
\uparrow \\
\bar{P} \\
\uparrow \\
\bar{S} \\
\uparrow \\
\bar{R} \\
\uparrow \\
\bar{G} \\
\uparrow \\
\bar{O}_1 \\
\uparrow \\
\bar{U} \\
\uparrow \\
\bar{V} \\
\vdots
\end{array}
\text{FZprt}
\begin{array}{c}
\vdots \\
\bar{W} \\
\uparrow \\
\bar{J} \\
\uparrow \\
\bar{H} \\
\uparrow \\
\bar{F} \\
\uparrow \\
\bar{A} \\
\uparrow \\
\bar{D} \\
\uparrow \\
\bar{Q} \\
\uparrow \\
B
\end{array}
+
\begin{array}{c}
C \\
\uparrow \\
\bar{P} \\
\uparrow \\
\bar{S} \\
\uparrow \\
\bar{R} \\
\uparrow \\
\bar{G} \\
\uparrow \\
\bar{O}_2 \\
\uparrow \\
\bar{U} \\
\uparrow \\
\bar{V} \\
\vdots
\end{array}
\text{FZprt}
\begin{array}{c}
\vdots \\
\bar{W} \\
\uparrow \\
\bar{J} \\
\uparrow \\
\bar{H} \\
\uparrow \\
\bar{F} \\
\uparrow \\
\bar{A} \\
\uparrow \\
\bar{D} \\
\uparrow \\
\bar{Q} \\
\uparrow \\
B
\end{array}
=
\begin{array}{c}
C \\
\uparrow \\
\bar{P} \\
\uparrow \\
\bar{S} \\
\uparrow \\
\overbrace{\bar{R}} \\
\uparrow \\
\bar{G} \\
\uparrow \\
\bar{O}_1 \cup \bar{O}_2 \\
\uparrow \\
\bar{U} \\
\uparrow \\
\bar{V} \\
\vdots
\end{array}
\text{FZprt}
\begin{array}{c}
\vdots \\
\bar{W} \\
\uparrow \\
\bar{J} \\
\uparrow \\
\bar{H} \\
\uparrow \\
\bar{F} \\
\uparrow \\
\bar{A} \\
\uparrow \\
\bar{D} \\
\uparrow \\
\bar{Q} \\
\uparrow \\
B
\end{array}
\quad (\text{A.2.12.10}).$$

$$\begin{array}{c}
C \\
\uparrow \\
\bar{P} \\
\uparrow \\
\bar{S} \\
\uparrow \\
\tilde{R} \\
\uparrow \\
\equiv \\
G \\
\uparrow \\
\tilde{O} \\
\uparrow \\
\tilde{U} \\
\uparrow \\
\equiv \\
\tilde{V} \\
\vdots
\end{array}
\begin{array}{c}
\vdots \\
\tilde{W} \\
\uparrow \\
\tilde{J} \\
\uparrow \\
\tilde{H} \\
\uparrow \\
\equiv \\
F \\
\uparrow \\
\tilde{A}_1 \\
\uparrow \\
\bar{D} \\
\uparrow \\
\bar{Q} \\
\uparrow \\
B
\end{array}
+
\begin{array}{c}
C \\
\uparrow \\
\bar{P} \\
\uparrow \\
\bar{S} \\
\uparrow \\
\tilde{R} \\
\uparrow \\
\equiv \\
G \\
\uparrow \\
\tilde{O} \\
\uparrow \\
\tilde{U} \\
\uparrow \\
\equiv \\
\tilde{V} \\
\vdots
\end{array}
\begin{array}{c}
\vdots \\
\tilde{W} \\
\uparrow \\
\tilde{J} \\
\uparrow \\
\tilde{H} \\
\uparrow \\
\equiv \\
F \\
\uparrow \\
\tilde{A}_2 \\
\uparrow \\
\bar{D} \\
\uparrow \\
\bar{Q} \\
\uparrow \\
B
\end{array}
=
\begin{array}{c}
C \\
\uparrow \\
\bar{P} \\
\uparrow \\
\bar{S} \\
\uparrow \\
\tilde{R} \\
\uparrow \\
\equiv \\
G \\
\uparrow \\
\tilde{O} \\
\uparrow \\
\tilde{U} \\
\uparrow \\
\equiv \\
\tilde{V} \\
\vdots
\end{array}
\begin{array}{c}
\vdots \\
\tilde{W} \\
\uparrow \\
\tilde{J} \\
\uparrow \\
\tilde{H} \\
\uparrow \\
\equiv \\
F \\
\uparrow \\
\tilde{A}_1 \cup \tilde{A}_2 \\
\uparrow \\
\bar{D} \\
\uparrow \\
\bar{Q} \\
\uparrow \\
B
\end{array}
\quad (\text{A.2.12.10.1}),$$

$$\begin{array}{c}
C \\
\uparrow \\
\bar{P} \\
\uparrow \\
\bar{S} \\
\uparrow \\
\tilde{R} \\
\uparrow \\
\equiv \\
G \\
\uparrow \\
\tilde{O} \\
\uparrow \\
\tilde{U} \\
\uparrow \\
\equiv \\
\tilde{V} \\
\vdots
\end{array}
\begin{array}{c}
\vdots \\
\tilde{W} \\
\uparrow \\
\tilde{J} \\
\uparrow \\
\tilde{H} \\
\uparrow \\
\equiv \\
F \\
\uparrow \\
\tilde{A} \\
\uparrow \\
\bar{D}_1 \\
\uparrow \\
\bar{Q} \\
\uparrow \\
B
\end{array}
+
\begin{array}{c}
C \\
\uparrow \\
\bar{P} \\
\uparrow \\
\bar{S} \\
\uparrow \\
\tilde{R} \\
\uparrow \\
\equiv \\
G \\
\uparrow \\
\tilde{O} \\
\uparrow \\
\tilde{U} \\
\uparrow \\
\equiv \\
\tilde{V} \\
\vdots
\end{array}
\begin{array}{c}
\vdots \\
\tilde{W} \\
\uparrow \\
\tilde{J} \\
\uparrow \\
\tilde{H} \\
\uparrow \\
\equiv \\
F \\
\uparrow \\
\tilde{A} \\
\uparrow \\
\bar{D}_2 \\
\uparrow \\
\bar{Q} \\
\uparrow \\
B
\end{array}
=
\begin{array}{c}
C \\
\uparrow \\
\bar{P} \\
\uparrow \\
\bar{S} \\
\uparrow \\
\tilde{R} \\
\uparrow \\
\equiv \\
G \\
\uparrow \\
\tilde{O} \\
\uparrow \\
\tilde{U} \\
\uparrow \\
\equiv \\
\tilde{V} \\
\vdots
\end{array}
\begin{array}{c}
\vdots \\
\tilde{W} \\
\uparrow \\
\tilde{J} \\
\uparrow \\
\tilde{H} \\
\uparrow \\
\equiv \\
F \\
\uparrow \\
\tilde{A} \\
\uparrow \\
\bar{D}_1 \cup \bar{D}_2 \\
\uparrow \\
\bar{Q} \\
\uparrow \\
B
\end{array}
\quad (\text{A.2.12.10.2}),$$

$$\begin{array}{c}
C \\
\uparrow \\
\bar{P} \\
\uparrow \\
\bar{S} \\
\uparrow \\
\bar{R} \\
\uparrow \\
\equiv \\
G \\
\uparrow \\
\bar{O} \\
\uparrow \\
\bar{U} \\
\uparrow \\
\equiv \\
\bar{V} \\
\uparrow \\
\bar{Q} \\
\uparrow \\
B \\
\cdots
\end{array}
\begin{array}{c}
\cdots \\
\equiv \\
\bar{W} \\
\uparrow \\
\bar{J}_1 \\
\uparrow \\
\bar{H} \\
\uparrow \\
\equiv \\
F \\
\uparrow \\
\bar{A} \\
\uparrow \\
\bar{D} \\
\uparrow \\
\bar{Q} \\
\uparrow \\
B \\
\cdots
\end{array}
+
\begin{array}{c}
C \\
\uparrow \\
\bar{P} \\
\uparrow \\
\bar{S} \\
\uparrow \\
\bar{R} \\
\uparrow \\
\equiv \\
G \\
\uparrow \\
\bar{O} \\
\uparrow \\
\bar{U} \\
\uparrow \\
\equiv \\
\bar{V} \\
\uparrow \\
\bar{Q} \\
\uparrow \\
B \\
\cdots
\end{array}
\begin{array}{c}
\cdots \\
\equiv \\
\bar{W} \\
\uparrow \\
\bar{J}_2 \\
\uparrow \\
\bar{H} \\
\uparrow \\
\equiv \\
F \\
\uparrow \\
\bar{A} \\
\uparrow \\
\bar{D} \\
\uparrow \\
\bar{Q} \\
\uparrow \\
B \\
\cdots
\end{array}
=
\begin{array}{c}
C \\
\uparrow \\
\bar{P} \\
\uparrow \\
\bar{S} \\
\uparrow \\
\bar{R} \\
\uparrow \\
\equiv \\
G \\
\uparrow \\
\bar{O} \\
\uparrow \\
\bar{U} \\
\uparrow \\
\equiv \\
\bar{V} \\
\uparrow \\
\bar{Q} \\
\uparrow \\
B \\
\cdots
\end{array}
\begin{array}{c}
\cdots \\
\equiv \\
\bar{W} \\
\uparrow \\
\bar{J}_1 \cup \bar{J}_2 \\
\uparrow \\
\bar{H} \\
\uparrow \\
\equiv \\
F \\
\uparrow \\
\bar{A} \\
\uparrow \\
\bar{D} \\
\uparrow \\
\bar{Q} \\
\uparrow \\
B \\
\cdots
\end{array}
\quad (\text{A.2.12.10.3}),$$

$$\begin{array}{c}
C \\
\uparrow \\
\bar{P} \\
\uparrow \\
\bar{S} \\
\uparrow \\
\bar{R} \\
\uparrow \\
\equiv \\
G \\
\uparrow \\
\bar{O} \\
\uparrow \\
\bar{U} \\
\uparrow \\
\equiv \\
\bar{V} \\
\uparrow \\
\bar{Q} \\
\uparrow \\
B \\
\cdots
\end{array}
\begin{array}{c}
\cdots \\
\equiv \\
\bar{W}_1 \\
\uparrow \\
\bar{J} \\
\uparrow \\
\bar{H} \\
\uparrow \\
\equiv \\
F \\
\uparrow \\
\bar{A} \\
\uparrow \\
\bar{D} \\
\uparrow \\
\bar{Q} \\
\uparrow \\
B \\
\cdots
\end{array}
+
\begin{array}{c}
C \\
\uparrow \\
\bar{P} \\
\uparrow \\
\bar{S} \\
\uparrow \\
\bar{R} \\
\uparrow \\
\equiv \\
G \\
\uparrow \\
\bar{O} \\
\uparrow \\
\bar{U} \\
\uparrow \\
\equiv \\
\bar{V} \\
\uparrow \\
\bar{Q} \\
\uparrow \\
B \\
\cdots
\end{array}
\begin{array}{c}
\cdots \\
\equiv \\
\bar{W}_2 \\
\uparrow \\
\bar{J} \\
\uparrow \\
\bar{H} \\
\uparrow \\
\equiv \\
F \\
\uparrow \\
\bar{A} \\
\uparrow \\
\bar{D} \\
\uparrow \\
\bar{Q} \\
\uparrow \\
B \\
\cdots
\end{array}
=
\begin{array}{c}
C \\
\uparrow \\
\bar{P} \\
\uparrow \\
\bar{S} \\
\uparrow \\
\bar{R} \\
\uparrow \\
\equiv \\
G \\
\uparrow \\
\bar{O} \\
\uparrow \\
\bar{U} \\
\uparrow \\
\equiv \\
\bar{V} \\
\uparrow \\
\bar{Q} \\
\uparrow \\
B \\
\cdots
\end{array}
\begin{array}{c}
\cdots \\
\equiv \\
\bar{W}_1 \cup \bar{W}_2 \\
\uparrow \\
\bar{J} \\
\uparrow \\
\bar{H} \\
\uparrow \\
\equiv \\
F \\
\uparrow \\
\bar{A} \\
\uparrow \\
\bar{D} \\
\uparrow \\
\bar{Q} \\
\uparrow \\
B \\
\cdots
\end{array}
\quad (\text{A.2.12.10.4}),$$

$$\begin{array}{ccccccc}
C & & C & & C & & C \\
\uparrow & & \uparrow & & \uparrow & & \uparrow \\
\bar{P} & & \bar{P} & & \bar{P} & & \bar{P} \\
\uparrow & & \uparrow & & \uparrow & & \uparrow \\
\bar{S} & & \bar{S} & & \bar{S} & & \bar{S} \\
\uparrow & & \uparrow & & \uparrow & & \uparrow \\
\overline{R} & & \overline{R} & & \overline{R} & & \overline{R} \\
\uparrow & & \uparrow & & \uparrow & & \uparrow \\
\overline{G} & & \overline{G} & & \overline{G} & & \overline{G} \\
\uparrow & & \uparrow & & \uparrow & & \uparrow \\
\overline{O} & & \overline{O} & & \overline{O} & & \overline{O} \\
\uparrow & & \uparrow & & \uparrow & & \uparrow \\
\overline{U}_1 & & \overline{D} & & \overline{U}_1 \cup \overline{U}_2 & & \overline{D} \\
\uparrow & & \uparrow & & \uparrow & & \uparrow \\
\overline{V} & & \overline{Q} & & \overline{V} & & \overline{Q} \\
\uparrow & & \uparrow & & \uparrow & & \uparrow \\
\vdots & & B & & \vdots & & B
\end{array}
\text{FZprt} + \text{FZprt} = \text{FZprt} \quad (\text{A.2.12.10.5}),$$

$$\begin{array}{ccccccc}
C & & C & & C & & C \\
\uparrow & & \uparrow & & \uparrow & & \uparrow \\
\bar{P} & & \bar{P} & & \bar{P} & & \bar{P} \\
\uparrow & & \uparrow & & \uparrow & & \uparrow \\
\bar{S} & & \bar{S} & & \bar{S} & & \bar{S} \\
\uparrow & & \uparrow & & \uparrow & & \uparrow \\
\overline{R} & & \overline{R} & & \overline{R} & & \overline{R} \\
\uparrow & & \uparrow & & \uparrow & & \uparrow \\
\overline{G} & & \overline{G} & & \overline{G} & & \overline{G} \\
\uparrow & & \uparrow & & \uparrow & & \uparrow \\
\overline{O} & & \overline{O} & & \overline{O} & & \overline{O} \\
\uparrow & & \uparrow & & \uparrow & & \uparrow \\
\overline{U} & & \overline{D} & & \overline{U} & & \overline{D} \\
\uparrow & & \uparrow & & \uparrow & & \uparrow \\
\overline{V}_1 & & \overline{Q} & & \overline{V}_1 \cup \overline{V}_2 & & \overline{Q} \\
\uparrow & & \uparrow & & \uparrow & & \uparrow \\
\vdots & & B & & \vdots & & B
\end{array}
\text{FZprt} + \text{FZprt} = \text{FZprt} \quad (\text{A.2.12.10.6}).$$

We consider the following self-type FZprt-structure of the first type:

$$\begin{array}{ccc}
 Q & & \vdots \\
 \uparrow & & \vdots \\
 \bar{Q} & & \bar{Q} \\
 \uparrow & & \uparrow \\
 \bar{Q} & & \bar{Q} \\
 \uparrow & & \uparrow \\
 \bar{Q} & & \bar{Q} \\
 \uparrow & & \uparrow \\
 \bar{Q} & & \bar{Q} \\
 \uparrow & & \uparrow \\
 \bar{Q} & & \bar{Q} \\
 \uparrow & & \uparrow \\
 \bar{Q} & & \bar{Q} \\
 \uparrow & & \uparrow \\
 \bar{Q} & & \bar{Q} \\
 \uparrow & & \uparrow \\
 \bar{Q} & & \bar{Q} \\
 \uparrow & & \uparrow \\
 \bar{Q} & & \bar{Q} \\
 \uparrow & & \uparrow \\
 \bar{Q} & & \bar{Q} \\
 \vdots & & Q
 \end{array}
 \text{FZprt} \quad (A.2.13),$$

denote $FZ_1 f Q$.

$$\begin{array}{ccc}
 Q & & \vdots \\
 \uparrow & & \vdots \\
 \bar{Q} & & \bar{Q} \\
 \uparrow & & \uparrow \\
 \bar{Q} & & \bar{Q} \\
 \uparrow & & \uparrow \\
 \bar{Q} & & \bar{Q} \\
 \uparrow & & \uparrow \\
 \bar{Q} & & \bar{Q} \\
 \uparrow & & \uparrow \\
 \bar{Q} & & \bar{Q} \\
 \uparrow & & \uparrow \\
 \bar{Q} & & \bar{Q} \\
 \uparrow & & \uparrow \\
 \bar{Q} & & \bar{Q} \\
 \uparrow & & \uparrow \\
 \bar{Q} & & \bar{Q} \\
 \uparrow & & \uparrow \\
 \bar{Q} & & \bar{Q} \\
 \uparrow & & \uparrow \\
 \bar{Q} & & \bar{Q} \\
 \uparrow & & \uparrow \\
 \bar{Q} & & \bar{Q} \\
 \uparrow & & \uparrow \\
 \bar{Q} & & \bar{Q} \\
 \vdots & & Q
 \end{array}
 \text{FZprt} \quad (A.2.14),$$

denote $FZ_2 f A; Q$.

$$\begin{array}{c}
B \\
\uparrow \\
\overline{Q} \\
\uparrow \\
\overline{\overline{Q}} \\
\uparrow \\
\overline{R} \\
\uparrow \\
\overline{\overline{G}} \\
\uparrow \\
\overline{\overline{A}} \\
\uparrow \\
\overline{\overline{U}} \\
\uparrow \\
\overline{\overline{V}} \\
\vdots
\end{array}
\text{FZprt}
\begin{array}{c}
\vdots \\
\overline{\overline{W}} \\
\uparrow \\
\overline{\overline{J}} \\
\uparrow \\
\overline{\overline{H}} \\
\uparrow \\
\overline{\overline{F}} \\
\uparrow \\
\overline{\overline{A}} \\
\uparrow \\
\overline{\overline{Q}} \\
\uparrow \\
\overline{\overline{Q}} \\
\uparrow \\
B
\end{array}
\quad (\text{A.2.15}),$$

denote $FZ_3 f H, F, A; Q; B$.

$$\begin{array}{c}
A \\
\uparrow \\
\overline{Q} \\
\uparrow \\
\overline{\overline{Q}} \\
\uparrow \\
\overline{\overline{Q}} \\
\uparrow \\
\overline{\overline{A}} \\
\uparrow \\
\overline{\overline{Q}} \\
\uparrow \\
\overline{\overline{Q}} \\
\uparrow \\
\overline{\overline{Q}} \\
\uparrow \\
\overline{\overline{Q}} \\
\vdots
\end{array}
\text{FZprt}
\begin{array}{c}
\vdots \\
\overline{\overline{Q}} \\
\uparrow \\
\overline{\overline{Q}} \\
\uparrow \\
\overline{\overline{A}} \\
\uparrow \\
\overline{\overline{Q}} \\
\uparrow \\
\overline{\overline{Q}} \\
\uparrow \\
\overline{\overline{Q}} \\
\uparrow \\
\overline{\overline{Q}} \\
\uparrow \\
A
\end{array}
\quad (\text{A.2.16}),$$

denote $FZ_4 f A; Q$.

$$\begin{array}{ccc}
 a & & \dots \\
 \uparrow & & \uparrow \\
 \overline{Q} & & \overline{Q} \\
 \uparrow & & \uparrow \\
 \overline{Q} & & \overline{Q} \\
 \uparrow & & \uparrow \\
 \overbrace{Q} & & \overline{Q} \\
 \uparrow & & \uparrow \\
 \equiv & & \overline{Q} \\
 Q & \text{FZprt} & \overline{Q} \\
 \uparrow & & \uparrow \\
 \text{str } \vec{A} & & \overline{Q} \\
 \uparrow & & \uparrow \\
 \overline{Q} & & \overline{Q} \\
 \uparrow & & \uparrow \\
 \overline{Q} & & \overline{Q} \\
 \uparrow & & \uparrow \\
 \dots & & a
 \end{array} \quad (\text{A.2.16.1}),$$

denote $FZ_5 f A; Q; a, a \subset A$,

$$\begin{array}{ccc}
 C & & \dots \\
 \uparrow & & \uparrow \\
 \overline{P} & & \overline{W} \\
 \uparrow & & \uparrow \\
 \overline{Q} & & \overline{J} \\
 \uparrow & & \uparrow \\
 \overline{R} & & \overline{H} \\
 \uparrow & & \uparrow \\
 \overline{G} & \text{FZprt} & \overline{F} \\
 \uparrow & & \uparrow \\
 \overline{O} & & \overline{A} \\
 \uparrow & & \uparrow \\
 \overline{U} & & \overline{Q} \\
 \uparrow & & \uparrow \\
 \overline{V} & & \overline{Q} \\
 \uparrow & & \uparrow \\
 \dots & & B
 \end{array} \quad (\text{A.2.16.2}),$$

denote $FZ_6 f a; Q; A, a \subset A$,

to the upper level of A - \tilde{A} , \tilde{A} goes to the paradoxical middle level of F - $\bar{\bar{F}}$, $\bar{\bar{F}}$ goes to the paradoxical upper level of H - $\hat{\hat{H}}$, $\hat{\hat{H}}$ goes to the singelf levels of J - $\bar{\bar{J}}$, $\bar{\bar{J}}$ goes to the *parelf* levels of W - $\bar{\bar{W}}$ simultaneously, the result of this process will be described by the expression

$$\begin{array}{c}
 \dots \\
 \bar{\bar{W}} \\
 \uparrow \\
 \bar{\bar{J}} \\
 \uparrow \\
 \hat{\hat{H}} \\
 \uparrow \\
 \bar{\bar{F}} \\
 \uparrow \\
 \tilde{A} \\
 \uparrow \\
 \bar{D} \\
 \uparrow \\
 \bar{Q} \\
 \uparrow \\
 B
 \end{array}
 \quad \text{FZrt (A.2.19)}$$

or

$$\begin{array}{c}
 C \\
 \uparrow \\
 \bar{P} \\
 \uparrow \\
 \bar{S} \\
 \uparrow \\
 \bar{R} \\
 \uparrow \\
 \bar{G} \\
 \uparrow \\
 \bar{O} \\
 \uparrow \\
 \bar{U} \\
 \uparrow \\
 \bar{V} \\
 \dots
 \end{array}
 \quad \text{FZprt (A.2.110)}$$

where $\overset{\equiv}{\underset{\equiv}{V}}$ - *parelf* levels of fuzzy V goes to $\overset{\equiv}{\underset{\equiv}{U}}$ – singelf levels of fuzzy U, fuzzy $\overset{\equiv}{\underset{\equiv}{O}}$ goes to the paradoxical middle level of fuzzy G - $\overset{\equiv}{\underset{\equiv}{G}}$, $\overset{\equiv}{\underset{\equiv}{G}}$ goes to the upper level of fuzzy R - $\overset{\equiv}{\underset{\equiv}{R}}$, $\overset{\equiv}{\underset{\equiv}{R}}$ goes to the middle₂ level $\overset{\equiv}{\underset{\equiv}{S}}$, fuzzy $\overset{\equiv}{\underset{\equiv}{S}}$ goes to the middle₁ level of fuzzy P - $\overset{\equiv}{\underset{\equiv}{P}}$, $\overset{\equiv}{\underset{\equiv}{P}}$ goes to the lower level of fuzzy C simultaneously, the result of this process will be described by the expression

$$\begin{array}{c}
 C \\
 \uparrow \\
 \overset{\equiv}{\underset{\equiv}{P}} \\
 \uparrow \\
 \overset{\equiv}{\underset{\equiv}{S}} \\
 \uparrow \\
 \overset{\equiv}{\underset{\equiv}{R}} \\
 \uparrow \\
 \overset{\equiv}{\underset{\equiv}{G}} \text{ FZrt (A.2.111)} \\
 \uparrow \\
 \overset{\equiv}{\underset{\equiv}{O}} \\
 \uparrow \\
 \overset{\equiv}{\underset{\equiv}{U}} \\
 \uparrow \\
 \overset{\equiv}{\underset{\equiv}{V}} \\
 \dots
 \end{array}$$

Definition 8

The fuzzy dynamic operator (A.2.18) we shall call FZprt – element of the second type, (A.2.19) we shall call FZrt – element of the second type.

It's allowed to add FZprt – elements of the second type:

$$\begin{array}{c}
\begin{array}{c}
\ddots \\
\overline{\overline{\overline{W}}} \\
\uparrow \\
\overline{\overline{\overline{J}}} \\
\uparrow \\
\overline{\overline{\overline{H_1}}} \\
\uparrow \\
\overline{\overline{\overline{F}}} \\
\uparrow \\
\overline{\overline{\overline{A}}} \\
\uparrow \\
\overline{\overline{\overline{D}}} \\
\uparrow \\
\overline{\overline{\overline{Q}}} \\
\uparrow \\
B
\end{array}
+ \begin{array}{c}
\begin{array}{c}
\ddots \\
\overline{\overline{\overline{W}}} \\
\uparrow \\
\overline{\overline{\overline{J}}} \\
\uparrow \\
\overline{\overline{\overline{H_2}}} \\
\uparrow \\
\overline{\overline{\overline{F}}} \\
\uparrow \\
\overline{\overline{\overline{A}}} \\
\uparrow \\
\overline{\overline{\overline{D}}} \\
\uparrow \\
\overline{\overline{\overline{Q}}} \\
\uparrow \\
B
\end{array}
\end{array}
= \begin{array}{c}
\begin{array}{c}
\ddots \\
\overline{\overline{\overline{W}}} \\
\uparrow \\
\overline{\overline{\overline{J}}} \\
\uparrow \\
\overline{\overline{\overline{H_1 \cup H_2}}} \\
\uparrow \\
\overline{\overline{\overline{F}}} \\
\uparrow \\
\overline{\overline{\overline{A}}} \\
\uparrow \\
\overline{\overline{\overline{D}}} \\
\uparrow \\
\overline{\overline{\overline{Q}}} \\
\uparrow \\
B
\end{array}
\end{array}
\quad (\text{A.2.112}),
\end{array}$$

$$\begin{array}{c}
\begin{array}{c}
\ddots \\
\overline{\overline{\overline{W}}} \\
\uparrow \\
\overline{\overline{\overline{J}}} \\
\uparrow \\
\overline{\overline{\overline{H}}} \\
\uparrow \\
\overline{\overline{\overline{F}}} \\
\uparrow \\
\overline{\overline{\overline{A}}} \\
\uparrow \\
\overline{\overline{\overline{D}}} \\
\uparrow \\
\overline{\overline{\overline{Q}}} \\
\uparrow \\
B_1
\end{array}
+ \begin{array}{c}
\begin{array}{c}
\ddots \\
\overline{\overline{\overline{W}}} \\
\uparrow \\
\overline{\overline{\overline{J}}} \\
\uparrow \\
\overline{\overline{\overline{H}}} \\
\uparrow \\
\overline{\overline{\overline{F}}} \\
\uparrow \\
\overline{\overline{\overline{A}}} \\
\uparrow \\
\overline{\overline{\overline{D}}} \\
\uparrow \\
\overline{\overline{\overline{Q}}} \\
\uparrow \\
B_2
\end{array}
\end{array}
= \begin{array}{c}
\begin{array}{c}
\ddots \\
\overline{\overline{\overline{W}}} \\
\uparrow \\
\overline{\overline{\overline{J}}} \\
\uparrow \\
\overline{\overline{\overline{H}}} \\
\uparrow \\
\overline{\overline{\overline{F}}} \\
\uparrow \\
\overline{\overline{\overline{A}}} \\
\uparrow \\
\overline{\overline{\overline{D}}} \\
\uparrow \\
\overline{\overline{\overline{Q}}} \\
\uparrow \\
B_1 \cup B_2
\end{array}
\end{array}
\quad (\text{A.2.113}),
\end{array}$$

$$\begin{array}{c}
 \dots \\
 \overline{\overline{\overline{W}}} \\
 \uparrow \\
 \overline{\overline{\overline{J}}} \\
 \uparrow \\
 \overline{\overline{\overline{H}}} \\
 \uparrow \\
 \overline{\overline{\overline{F}}} \\
 \text{FZprt}
 \end{array}
 +
 \begin{array}{c}
 \dots \\
 \overline{\overline{\overline{W}}} \\
 \uparrow \\
 \overline{\overline{\overline{J}}} \\
 \uparrow \\
 \overline{\overline{\overline{H}}} \\
 \uparrow \\
 \overline{\overline{\overline{F}}} \\
 \text{FZprt}
 \end{array}
 =
 \begin{array}{c}
 \dots \\
 \overline{\overline{\overline{W}}} \\
 \uparrow \\
 \overline{\overline{\overline{J}}} \\
 \uparrow \\
 \overline{\overline{\overline{H}}} \\
 \uparrow \\
 \overline{\overline{\overline{F}}} \\
 \text{FZprt}
 \end{array}
 \quad (\text{A.2.113.1}),$$

$$\begin{array}{c}
 \dots \\
 \overline{\overline{\overline{W}}} \\
 \uparrow \\
 \overline{\overline{\overline{J}}} \\
 \uparrow \\
 \overline{\overline{\overline{H}}} \\
 \uparrow \\
 \overline{\overline{\overline{A}}} \\
 \uparrow \\
 \overline{\overline{\overline{D}}} \\
 \uparrow \\
 \overline{Q_1} \\
 \uparrow \\
 B
 \end{array}
 +
 \begin{array}{c}
 \dots \\
 \overline{\overline{\overline{W}}} \\
 \uparrow \\
 \overline{\overline{\overline{J}}} \\
 \uparrow \\
 \overline{\overline{\overline{H}}} \\
 \uparrow \\
 \overline{\overline{\overline{A}}} \\
 \uparrow \\
 \overline{\overline{\overline{D}}} \\
 \uparrow \\
 \overline{Q_2} \\
 \uparrow \\
 B
 \end{array}
 =
 \begin{array}{c}
 \dots \\
 \overline{\overline{\overline{W}}} \\
 \uparrow \\
 \overline{\overline{\overline{J}}} \\
 \uparrow \\
 \overline{\overline{\overline{H}}} \\
 \uparrow \\
 \overline{\overline{\overline{A}}} \\
 \uparrow \\
 \overline{\overline{\overline{D}}} \\
 \uparrow \\
 \overline{Q_1 \cup Q_2} \\
 \uparrow \\
 B
 \end{array}
 \quad (\text{A.2.113.2}),$$

$$\begin{array}{c}
 \dots \\
 \overline{\overline{\overline{W}}} \\
 \uparrow \\
 \overline{\overline{J}} \\
 \uparrow \\
 \overline{\overline{H}} \\
 \uparrow \\
 \overline{\overline{F}} \\
 \text{FZprt}
 \end{array}
 +
 \begin{array}{c}
 \dots \\
 \overline{\overline{\overline{W}}} \\
 \uparrow \\
 \overline{\overline{J}} \\
 \uparrow \\
 \overline{\overline{H}} \\
 \uparrow \\
 \overline{\overline{F}} \\
 \text{FZprt}
 \end{array}
 =
 \begin{array}{c}
 \dots \\
 \overline{\overline{\overline{W}}} \\
 \uparrow \\
 \overline{\overline{J}} \\
 \uparrow \\
 \overline{\overline{H}} \\
 \uparrow \\
 \overline{\overline{F}} \\
 \text{FZprt}
 \end{array}
 \quad (\text{A.2.113.3}),$$

$$\begin{array}{c}
 \overline{\overline{A_1}} \\
 \uparrow \\
 \overline{\overline{D}} \\
 \uparrow \\
 \overline{\overline{Q}} \\
 \uparrow \\
 B
 \end{array}
 \quad
 \begin{array}{c}
 \overline{\overline{A_2}} \\
 \uparrow \\
 \overline{\overline{D}} \\
 \uparrow \\
 \overline{\overline{Q}} \\
 \uparrow \\
 B
 \end{array}
 \quad
 \begin{array}{c}
 \overline{\overline{A_1 \cup A_2}} \\
 \uparrow \\
 \overline{\overline{D}} \\
 \uparrow \\
 \overline{\overline{Q}} \\
 \uparrow \\
 B
 \end{array}$$

$$\begin{array}{c}
 \dots \\
 \overline{\overline{\overline{W}}} \\
 \uparrow \\
 \overline{\overline{J}} \\
 \uparrow \\
 \overline{\overline{H}} \\
 \uparrow \\
 \overline{\overline{F}} \\
 \text{FZprt}
 \end{array}
 +
 \begin{array}{c}
 \dots \\
 \overline{\overline{\overline{W}}} \\
 \uparrow \\
 \overline{\overline{J}} \\
 \uparrow \\
 \overline{\overline{H}} \\
 \uparrow \\
 \overline{\overline{F}} \\
 \text{FZprt}
 \end{array}
 =
 \begin{array}{c}
 \dots \\
 \overline{\overline{\overline{W}}} \\
 \uparrow \\
 \overline{\overline{J}} \\
 \uparrow \\
 \overline{\overline{H}} \\
 \uparrow \\
 \overline{\overline{F}} \\
 \text{FZprt}
 \end{array}
 \quad (\text{A. 2.113.4}),$$

$$\begin{array}{c}
 \overline{\overline{A}} \\
 \uparrow \\
 \overline{\overline{D_1}} \\
 \uparrow \\
 \overline{\overline{Q}} \\
 \uparrow \\
 B
 \end{array}
 \quad
 \begin{array}{c}
 \overline{\overline{A}} \\
 \uparrow \\
 \overline{\overline{D_2}} \\
 \uparrow \\
 \overline{\overline{Q}} \\
 \uparrow \\
 B
 \end{array}
 \quad
 \begin{array}{c}
 \overline{\overline{A}} \\
 \uparrow \\
 \overline{\overline{D_1 \cup D_2}} \\
 \uparrow \\
 \overline{\overline{Q}} \\
 \uparrow \\
 B
 \end{array}$$

$$\begin{array}{c}
\begin{array}{c}
\vdots \\
\overline{\overline{\overline{W}}} \\
\uparrow \\
\overline{\overline{J_1}} \\
\uparrow \\
\overline{\overline{H}} \\
\uparrow \\
\overline{\overline{F}} \\
\uparrow \\
\overline{\overline{A}} \\
\uparrow \\
\overline{\overline{D}} \\
\uparrow \\
\overline{\overline{Q}} \\
\uparrow \\
B
\end{array}
+ \text{FZprt}
\begin{array}{c}
\begin{array}{c}
\vdots \\
\overline{\overline{\overline{W}}} \\
\uparrow \\
\overline{\overline{J_2}} \\
\uparrow \\
\overline{\overline{H}} \\
\uparrow \\
\overline{\overline{F}} \\
\uparrow \\
\overline{\overline{A}} \\
\uparrow \\
\overline{\overline{D}} \\
\uparrow \\
\overline{\overline{Q}} \\
\uparrow \\
B
\end{array}
= \text{FZprt}
\begin{array}{c}
\begin{array}{c}
\vdots \\
\overline{\overline{\overline{W}}} \\
\uparrow \\
\overline{\overline{J_1 \cup J_2}} \\
\uparrow \\
\overline{\overline{H}} \\
\uparrow \\
\overline{\overline{F}} \\
\uparrow \\
\overline{\overline{A}} \\
\uparrow \\
\overline{\overline{D}} \\
\uparrow \\
\overline{\overline{Q}} \\
\uparrow \\
B
\end{array}
\end{array}
\quad (\text{A. 2.113.5}),
\end{array}$$

$$\begin{array}{c}
\begin{array}{c}
\vdots \\
\overline{\overline{\overline{W_1}}} \\
\uparrow \\
\overline{\overline{J}} \\
\uparrow \\
\overline{\overline{H}} \\
\uparrow \\
\overline{\overline{F}} \\
\uparrow \\
\overline{\overline{A}} \\
\uparrow \\
\overline{\overline{D}} \\
\uparrow \\
\overline{\overline{Q}} \\
\uparrow \\
B
\end{array}
+ \text{FZprt}
\begin{array}{c}
\begin{array}{c}
\vdots \\
\overline{\overline{\overline{W_2}}} \\
\uparrow \\
\overline{\overline{J}} \\
\uparrow \\
\overline{\overline{H}} \\
\uparrow \\
\overline{\overline{F}} \\
\uparrow \\
\overline{\overline{A}} \\
\uparrow \\
\overline{\overline{D}} \\
\uparrow \\
\overline{\overline{Q}} \\
\uparrow \\
B
\end{array}
= \text{FZprt}
\begin{array}{c}
\begin{array}{c}
\vdots \\
\overline{\overline{\overline{W_1 \cup W_2}}} \\
\uparrow \\
\overline{\overline{J}} \\
\uparrow \\
\overline{\overline{H}} \\
\uparrow \\
\overline{\overline{F}} \\
\uparrow \\
\overline{\overline{A}} \\
\uparrow \\
\overline{\overline{D}} \\
\uparrow \\
\overline{\overline{Q}} \\
\uparrow \\
B
\end{array}
\end{array}
\quad (\text{A. 2.113.6}).
\end{array}$$

We consider the following self-type FZprt-structures of the second type:

$$\begin{array}{c}
 \vdots \\
 \vec{\vec{A}} \\
 \uparrow \\
 \vec{\vec{Q}} \\
 \uparrow \\
 \vec{\vec{Q}} \\
 \uparrow \\
 \vec{\vec{Q}} \\
 \uparrow \\
 \vec{\vec{Q}} \\
 \uparrow \\
 \vec{\vec{Q}} \\
 \uparrow \\
 \vec{\vec{Q}} \\
 \uparrow \\
 A \\
 \vdots \\
 \vec{\vec{A}} \\
 \uparrow \\
 \vec{\vec{A}} \\
 \uparrow \\
 \vec{\vec{A}} \\
 \uparrow \\
 \vec{\vec{A}} \\
 \uparrow \\
 \vec{\vec{A}} \\
 \uparrow \\
 \vec{\vec{Q}} \\
 \uparrow \\
 \vec{\vec{Q}} \\
 \uparrow \\
 a
 \end{array}$$

FZprt (A.2.114),

FZprt (A.2.114.1),

denote $FZ_7fA; Q; a, a \subset A$,

$$\begin{array}{c} \vdots \\ \overbrace{a} \\ \uparrow \\ \overbrace{a} \\ \uparrow \\ \overbrace{a} \\ \uparrow \\ \overline{a} \\ \uparrow \\ \overline{a} \\ \uparrow \\ \overline{Q} \\ \uparrow \\ \overline{Q} \\ \uparrow \\ strA \end{array} \quad (A.2.115),$$

denote $FZ_8fa; Q; A, a \subset A$,

$$\begin{array}{c} \vdots \\ \overbrace{A} \\ \uparrow \\ \overbrace{A} \\ \uparrow \\ \overbrace{A} \\ \uparrow \\ \overline{A} \\ \uparrow \\ \overline{A} \\ \uparrow \\ \overline{Q} \\ \uparrow \\ \overline{Q} \\ \uparrow \\ Q \end{array} \quad (A.2.116),$$

and any other possible options of self for (A.2.18) etc.

Definition 9

The fuzzy dynamic operator (A.2.110) we shall call tprFZ – element, (A.2.111) we shall call trFZ – element.

It's allowed to add tprFZ – elements:

$$\begin{array}{ccc}
C_1 & C_2 & C_1 \cup C_2 \\
\uparrow & \uparrow & \uparrow \\
\bar{P} & \bar{P} & \bar{P} \\
\uparrow & \uparrow & \uparrow \\
\bar{S} & \bar{S} & \bar{S} \\
\uparrow & \uparrow & \uparrow \\
\bar{R} & \bar{R} & \bar{R} \\
\uparrow & \uparrow & \uparrow \\
\equiv & \equiv & \equiv \\
\bar{G} & \bar{G} & \bar{G} \\
\text{FZprt} + & \text{FZprt} = & \text{FZprt (A.2.117),} \\
\uparrow & \uparrow & \uparrow \\
\bar{O} & \bar{O} & \bar{O} \\
\uparrow & \uparrow & \uparrow \\
\bar{U} & \bar{U} & \bar{U} \\
\uparrow & \uparrow & \uparrow \\
\equiv & \equiv & \equiv \\
\bar{V} & \bar{V} & \bar{V} \\
\vdots & \vdots & \vdots
\end{array}$$

$$\begin{array}{ccc}
C & C & C \\
\uparrow & \uparrow & \uparrow \\
\bar{P} & \bar{P} & \bar{P} \\
\uparrow & \uparrow & \uparrow \\
\bar{S} & \bar{S} & \bar{S} \\
\uparrow & \uparrow & \uparrow \\
\bar{R} & \bar{R} & \overbrace{R} \\
\uparrow & \uparrow & \uparrow \\
\equiv & \equiv & \equiv \\
\bar{G} & \bar{G} & \bar{G} \\
\text{FZprt} + & \text{FZprt} = & \text{FZprt (A.2.117.1),} \\
\uparrow & \uparrow & \uparrow \\
\bar{O}_1 & \bar{O}_2 & \bar{O}_1 \cup \bar{O}_2 \\
\uparrow & \uparrow & \uparrow \\
\bar{U} & \bar{U} & \bar{U} \\
\uparrow & \uparrow & \uparrow \\
\equiv & \equiv & \equiv \\
\bar{V} & \bar{V} & \bar{V} \\
\vdots & \vdots & \vdots
\end{array}$$

$$\begin{array}{c}
C \\
\uparrow \\
\overline{P_1} \\
\uparrow \\
\overline{S} \\
\uparrow \\
\overline{R} \\
\uparrow \\
\equiv \\
G \\
\uparrow \\
\overline{O} \\
\uparrow \\
\overline{U} \\
\uparrow \\
\equiv \\
\overline{V} \\
\vdots
\end{array}
\text{FZprt} +
\begin{array}{c}
C \\
\uparrow \\
\overline{P_2} \\
\uparrow \\
\overline{S} \\
\uparrow \\
\overline{R} \\
\uparrow \\
\equiv \\
G \\
\uparrow \\
\overline{O} \\
\uparrow \\
\overline{U} \\
\uparrow \\
\equiv \\
\overline{V} \\
\vdots
\end{array}
\text{FZprt} =
\begin{array}{c}
C \\
\uparrow \\
\overline{(P_1 \cup P_2)} \\
\uparrow \\
\overline{S} \\
\uparrow \\
\overline{R} \\
\uparrow \\
\equiv \\
G \\
\uparrow \\
\overline{O} \\
\uparrow \\
\overline{U} \\
\uparrow \\
\equiv \\
\overline{V} \\
\vdots
\end{array}
\text{FZprt (A.2.117.2),}$$

$$\begin{array}{c}
C \\
\uparrow \\
\overline{P} \\
\uparrow \\
\overline{S} \\
\uparrow \\
\overline{R_1} \\
\uparrow \\
\equiv \\
G \\
\uparrow \\
\overline{O} \\
\uparrow \\
\overline{U} \\
\uparrow \\
\equiv \\
\overline{V} \\
\vdots
\end{array}
\text{FZprt} +
\begin{array}{c}
C \\
\uparrow \\
\overline{P} \\
\uparrow \\
\overline{S} \\
\uparrow \\
\overline{R_2} \\
\uparrow \\
\equiv \\
G \\
\uparrow \\
\overline{O} \\
\uparrow \\
\overline{U} \\
\uparrow \\
\equiv \\
\overline{V} \\
\vdots
\end{array}
\text{FZprt} =
\begin{array}{c}
C \\
\uparrow \\
\overline{P} \\
\uparrow \\
\overline{S} \\
\uparrow \\
\overline{R_1 \cup R_2} \\
\uparrow \\
\equiv \\
G \\
\uparrow \\
\overline{O} \\
\uparrow \\
\overline{U} \\
\uparrow \\
\equiv \\
\overline{V} \\
\vdots
\end{array}
\text{FZprt (A.2.117.3),}$$

$$\begin{array}{c}
C \\
\uparrow \\
\bar{P} \\
\uparrow \\
\bar{S} \\
\uparrow \\
\overbrace{R} \\
\uparrow \\
\equiv \\
G_1 \text{ FZprt} + G_2 \text{ FZprt} = \overbrace{G_1 \cup G_2} \text{ FZprt (A.2.117.4),} \\
\uparrow \\
\ddot{O} \\
\uparrow \\
\overline{\ddot{U}} \\
\uparrow \\
\equiv \\
\ddot{V} \\
\vdots
\end{array}$$

$$\begin{array}{c}
C \\
\uparrow \\
\bar{P} \\
\uparrow \\
\bar{S}_1 \\
\uparrow \\
\ddot{R} \\
\uparrow \\
\equiv \\
G \text{ FZprt} + G \text{ FZprt} = \overbrace{S_1 \cup S_2} \\
\uparrow \\
\ddot{O} \\
\uparrow \\
\overline{\ddot{U}} \\
\uparrow \\
\equiv \\
\ddot{V} \\
\vdots
\end{array}$$

$$\begin{array}{c}
C \\
\uparrow \\
\bar{P} \\
\uparrow \\
\bar{S} \\
\uparrow \\
\overline{R} \\
\uparrow \\
\equiv \\
\overline{G} \\
\uparrow \\
\overline{O} \\
\uparrow \\
\overline{U_1} \\
\uparrow \\
\overline{V} \\
\vdots
\end{array}
\text{Zprt} +
\begin{array}{c}
C \\
\uparrow \\
\bar{P} \\
\uparrow \\
\bar{S} \\
\uparrow \\
\overline{R} \\
\uparrow \\
\equiv \\
\overline{G} \\
\uparrow \\
\overline{O} \\
\uparrow \\
\overline{U_2} \\
\uparrow \\
\overline{V} \\
\vdots
\end{array}
\text{Zprt} =
\begin{array}{c}
C \\
\uparrow \\
\bar{P} \\
\uparrow \\
\bar{S} \\
\uparrow \\
\overline{R} \\
\uparrow \\
\equiv \\
\overline{G} \\
\uparrow \\
\overline{O} \\
\uparrow \\
\overline{U_1} \cup \overline{U_2} \\
\uparrow \\
\overline{V} \\
\vdots
\end{array}
\text{Zprt (A.2.117.6),}$$

$$\begin{array}{c}
C \\
\uparrow \\
\bar{P} \\
\uparrow \\
\bar{S} \\
\uparrow \\
\overline{R} \\
\uparrow \\
\equiv \\
\overline{G} \\
\uparrow \\
\overline{O} \\
\uparrow \\
\overline{U} \\
\uparrow \\
\overline{V_1} \\
\vdots
\end{array}
\text{FZprt} +
\begin{array}{c}
C \\
\uparrow \\
\bar{P} \\
\uparrow \\
\bar{S} \\
\uparrow \\
\overline{R} \\
\uparrow \\
\equiv \\
\overline{G} \\
\uparrow \\
\overline{O} \\
\uparrow \\
\overline{U} \\
\uparrow \\
\overline{V_2} \\
\vdots
\end{array}
\text{FZprt} =
\begin{array}{c}
C \\
\uparrow \\
\bar{P} \\
\uparrow \\
\bar{S} \\
\uparrow \\
\overline{R} \\
\uparrow \\
\equiv \\
\overline{G} \\
\uparrow \\
\overline{O} \\
\uparrow \\
\overline{U} \\
\uparrow \\
\overline{V_1} \cup \overline{V_2} \\
\vdots
\end{array}
\text{FZprt (A.2.117.7).}$$

We consider the following self-type tprFZ-structures:

$$\begin{array}{c}
O \\
\uparrow \\
\bar{P} \\
\uparrow \\
\bar{\bar{P}} \\
\uparrow \\
\check{R} \\
\uparrow \\
\equiv \\
\bar{G} \text{ FZprt (A.2.118),} \\
\uparrow \\
\check{\check{O}} \\
\uparrow \\
\bar{\check{O}} \\
\uparrow \\
\equiv \\
\check{\check{O}}
\end{array}$$

$$\begin{array}{c}
\vdots \\
strD \\
\uparrow \\
\bar{Q} \\
\uparrow \\
\bar{\bar{Q}} \\
\uparrow \\
\check{Q} \\
\uparrow \\
\equiv \\
\bar{Q} \text{ FZprt ((A.2.118.1),} \\
\uparrow \\
\check{\check{Q}} \\
\uparrow \\
\bar{\check{Q}} \\
\uparrow \\
\equiv \\
\check{\check{a}}
\end{array}$$

denote $FZ_9fd; Q; D, d \subset D,$

$$\begin{array}{c}
d \\
\uparrow \\
\bar{Q} \\
\uparrow \\
\bar{\bar{Q}} \\
\uparrow \\
\tilde{Q} \\
\uparrow \\
\equiv \\
\bar{D} \text{ FZprt (A.2.119),} \\
\uparrow \\
\tilde{\tilde{D}} \\
\uparrow \\
\bar{\tilde{Q}} \\
\uparrow \\
\equiv \\
\tilde{\tilde{Q}} \\
\vdots
\end{array}$$

denote $FZ_{10}fD; Q; d, d \subset D,$

$$\begin{array}{c}
P \\
\uparrow \\
\bar{P} \\
\uparrow \\
\bar{\bar{P}} \\
\uparrow \\
\tilde{R} \\
\uparrow \\
\equiv \\
\bar{G} \text{ FZprt (A.2.120),} \\
\uparrow \\
\tilde{\tilde{O}} \\
\uparrow \\
\bar{\tilde{U}} \\
\uparrow \\
\equiv \\
\tilde{\tilde{V}} \\
\vdots
\end{array}$$

$$\begin{array}{c}
P \\
\uparrow \\
\bar{P} \\
\uparrow \\
\bar{\bar{P}} \\
\uparrow \\
\ddot{R} \\
\uparrow \\
\bar{\bar{\bar{G}}} \\
\uparrow \\
\bar{\bar{\bar{G}}}_{\text{FZprt (A.2.121)}}
\end{array}$$

$$\begin{array}{c}
\bar{\bar{\bar{O}}} \\
\uparrow \\
\bar{\bar{\bar{O}}} \\
\uparrow \\
\bar{\bar{\bar{V}}} \\
\bar{\bar{\bar{V}}}
\end{array}$$

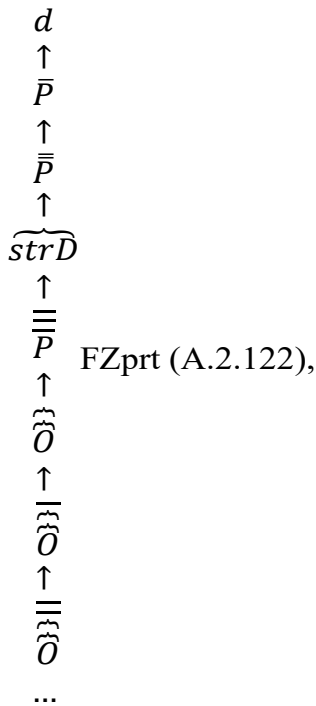
...

$$\begin{array}{c}
P \\
\uparrow \\
\bar{P} \\
\uparrow \\
\bar{\bar{R}} \\
\uparrow \\
\ddot{R} \\
\uparrow \\
\bar{\bar{\bar{G}}} \\
\uparrow \\
\bar{\bar{\bar{G}}}_{\text{FZprt (A.2.121.1),}}
\end{array}$$

$$\begin{array}{c}
\bar{\bar{\bar{O}}} \\
\uparrow \\
\bar{\bar{\bar{U}}} \\
\uparrow \\
\bar{\bar{\bar{V}}} \\
\bar{\bar{\bar{V}}}
\end{array}$$

...

denote FZ_9f

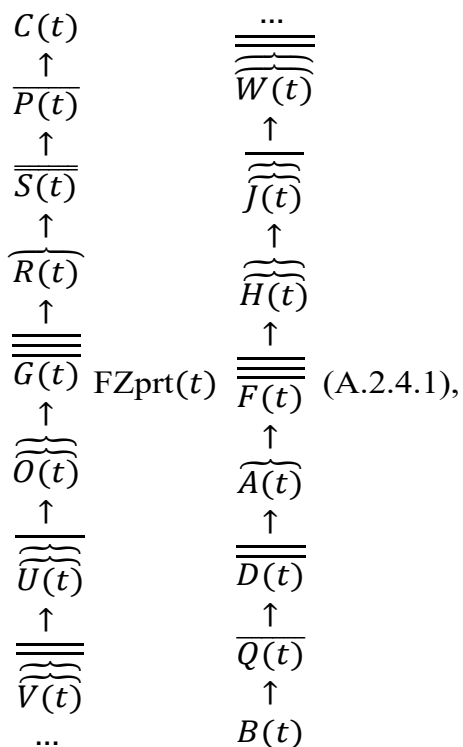


denote $FZ_{10}fD; P, O; d, d \subset D,$

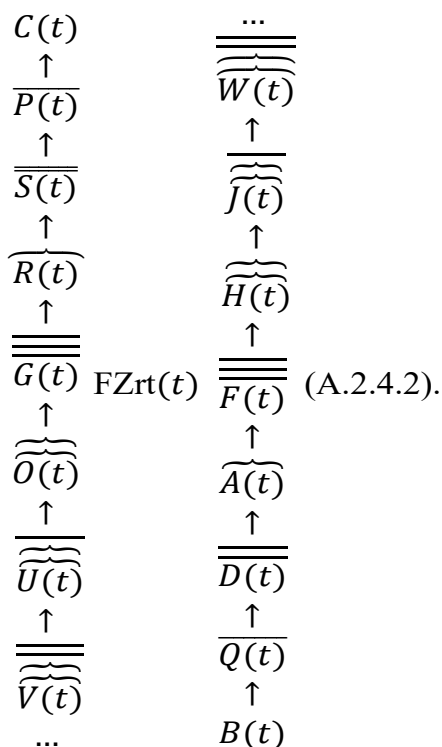
and any other possible options of self for (A.2.110) etc.

4. Dynamic FZprt – Elements, Self-Type Dynamic FZprt-Structures

We considered FZprt – elements earlier. Here we consider dynamic FZprt – elements. We consider fuzzy dynamic operator whose elements change over time



where $\overline{\overline{W}}(t), \overline{\overline{V}}(t)$ - *parelf* levels of fuzzy $W(t)$ and fuzzy V respectively, $\overline{\overline{J}}(t), \overline{\overline{U}}(t)$ - singelf levels of fuzzy $J(t)$ and fuzzy $U(t)$ respectively, $\overline{\overline{H}}(t), \overline{\overline{O}}(t)$ - paradoxical upper levels of fuzzy $H(t)$ and fuzzy $O(t)$ respectively, $\overline{\overline{F}}(t), \overline{\overline{G}}(t)$ - paradoxical average levels of fuzzy $F(t)$ and fuzzy $G(t)$ respectively, $\overline{\overline{A}}(t), \overline{\overline{R}}(t)$ - upper levels of fuzzy $A(t)$ and fuzzy $R(t)$ respectively, $\overline{Q}(t), \overline{P}(t)$ - middle₁ levels of fuzzy $Q(t)$ and fuzzy $P(t)$ respectively, fuzzy $B(t)$ goes to the middle₁ level of fuzzy $Q(t)$ - $\overline{Q}(t)$, $\overline{Q}(t)$ goes to the middle₂ level $\overline{\overline{D}}(t)$, fuzzy $\overline{\overline{D}}(t)$ goes to the upper level of $A(t)$ - $\overline{\overline{A}}(t)$, $\overline{\overline{A}}(t)$ goes to the paradoxical middle level of $F(t)$ - $\overline{\overline{F}}(t)$, $\overline{\overline{F}}(t)$ goes to the paradoxical upper level of $H(t)$ - $\overline{\overline{H}}(t)$, $\overline{\overline{H}}(t)$ goes to the singelf levels of $J(t)$ - $\overline{\overline{J}}(t)$, $\overline{\overline{J}}(t)$ goes to the *parelf* levels of $W(t)$ - $\overline{\overline{W}}(t)$, $\overline{\overline{V}}(t)$ goes to the $\overline{\overline{U}}(t)$, $\overline{\overline{U}}(t)$ goes to the $\overline{\overline{O}}(t)$ goes to the paradoxical middle level of $G(t)$ - $\overline{\overline{G}}(t)$, $\overline{\overline{G}}(t)$ goes to the upper level of $R(t)$ - $\overline{\overline{R}}(t)$, $\overline{\overline{R}}(t)$ goes to the middle₂ level $\overline{\overline{S}}(t)$, fuzzy $\overline{\overline{S}}(t)$ goes to the middle₁ level of $P(t)$ - $\overline{P}(t)$, $\overline{P}(t)$ goes to the lower level of $C(t)$ simultaneously. The result of this process will be described by the expression



Definition 10

The fuzzy dynamic operator (A.2.4.1) we shall call dynamic FZprt – element of the first type, (A.2.4.2) we shall call dynamic FZrt – element of the first type.

It's allowed to add dynamic FZprt – elements:

$$\begin{array}{ccccccc}
 C(t) & & \dots & & C(t) & & \dots \\
 \uparrow & & \overline{\overline{\overline{W(t)}}} & & \uparrow & & \overline{\overline{\overline{W(t)}}} \\
 \overline{P(t)} & & \uparrow & & \overline{P(t)} & & \uparrow \\
 \uparrow & & \overline{\overline{J(t)}} & & \uparrow & & \overline{\overline{J(t)}} \\
 \overline{S(t)} & & \uparrow & & \overline{S(t)} & & \uparrow \\
 \uparrow & & \overline{\overline{H_1(t)}} & & \uparrow & & \overline{\overline{H_1(t)}} \\
 \overline{R(t)} & & \uparrow & & \overline{R(t)} & & \uparrow \\
 \uparrow & & \overline{\overline{G(t)}} & & \uparrow & & \overline{\overline{G(t)}} \\
 \overline{\overline{G(t)}} & \text{FZprt}(t) & \overline{\overline{F(t)}} & + & \overline{\overline{G(t)}} & \text{FZprt}(t) & \overline{\overline{F(t)}} \\
 \uparrow & & \overline{\overline{A(t)}} & & \uparrow & & \overline{\overline{A(t)}} \\
 \overline{\overline{O(t)}} & & \uparrow & & \overline{\overline{O(t)}} & & \uparrow \\
 \uparrow & & \overline{\overline{D(t)}} & & \uparrow & & \overline{\overline{D(t)}} \\
 \overline{\overline{U(t)}} & & \uparrow & & \overline{\overline{U(t)}} & & \uparrow \\
 \uparrow & & \overline{\overline{Q(t)}} & & \uparrow & & \overline{\overline{Q(t)}} \\
 \overline{\overline{V(t)}} & & \uparrow & & \overline{\overline{V(t)}} & & \uparrow \\
 \dots & & B(t) & & \dots & & B(t)
 \end{array} \tag{A.2.4.2.1},$$

$$\begin{array}{ccccccc}
 C(t) & & \dots & & C(t) & & \dots \\
 \uparrow & & \overline{\overline{\overline{W(t)}}} & & \uparrow & & \overline{\overline{\overline{W(t)}}} \\
 \overline{P(t)} & & \uparrow & & \overline{P(t)} & & \uparrow \\
 \uparrow & & \overline{\overline{J(t)}} & & \uparrow & & \overline{\overline{J(t)}} \\
 \overline{S(t)} & & \uparrow & & \overline{S(t)} & & \uparrow \\
 \uparrow & & \overline{\overline{H(t)}} & & \uparrow & & \overline{\overline{H(t)}} \\
 \overline{R(t)} & & \uparrow & & \overline{R(t)} & & \uparrow \\
 \uparrow & & \overline{\overline{G(t)}} & & \uparrow & & \overline{\overline{G(t)}} \\
 \overline{\overline{G(t)}} & \text{FZprt}(t) & \overline{\overline{F(t)}} & + & \overline{\overline{G(t)}} & \text{FZprt}(t) & \overline{\overline{F(t)}} \\
 \uparrow & & \overline{\overline{A(t)}} & & \uparrow & & \overline{\overline{A(t)}} \\
 \overline{\overline{O(t)}} & & \uparrow & & \overline{\overline{O(t)}} & & \uparrow \\
 \uparrow & & \overline{\overline{D(t)}} & & \uparrow & & \overline{\overline{D(t)}} \\
 \overline{\overline{U(t)}} & & \uparrow & & \overline{\overline{U(t)}} & & \uparrow \\
 \uparrow & & \overline{\overline{Q(t)}} & & \uparrow & & \overline{\overline{Q(t)}} \\
 \overline{\overline{V(t)}} & & \uparrow & & \overline{\overline{V(t)}} & & \uparrow \\
 \dots & & B_1(t) & & \dots & & B_2(t) \\
 & & & & & & B_1(t) \cup B_2(t)
 \end{array} \tag{A.2.4.2.2},$$

$$\begin{array}{ccccccc}
\begin{array}{c} C(t) \\ \uparrow \\ \overline{P_1(t)} \\ \uparrow \\ \overline{S(t)} \\ \uparrow \\ \overbrace{R(t)} \\ \uparrow \\ \overline{\overline{G(t)}} \\ \uparrow \\ \overbrace{O(t)} \\ \uparrow \\ \overline{\overline{U(t)}} \\ \uparrow \\ \overline{\overline{V(t)}} \\ \dots \end{array} & \text{FZprt}(t) & \begin{array}{c} \dots \\ \overline{\overline{W(t)}} \\ \uparrow \\ \overbrace{J(t)} \\ \uparrow \\ \overbrace{H(t)} \\ \uparrow \\ \overline{\overline{F(t)}} \\ \uparrow \\ \overbrace{A(t)} \\ \uparrow \\ \overline{\overline{D(t)}} \\ \uparrow \\ \overline{Q(t)} \\ \uparrow \\ B(t) \end{array} & + & \begin{array}{c} C(t) \\ \uparrow \\ \overline{P_2(t)} \\ \uparrow \\ \overline{S(t)} \\ \uparrow \\ \overbrace{R(t)} \\ \uparrow \\ \overline{\overline{G(t)}} \\ \uparrow \\ \overbrace{O(t)} \\ \uparrow \\ \overline{\overline{U(t)}} \\ \uparrow \\ \overline{\overline{V(t)}} \\ \dots \end{array} & \text{FZprt}(t) & \begin{array}{c} \dots \\ \overline{\overline{W(t)}} \\ \uparrow \\ \overbrace{J(t)} \\ \uparrow \\ \overbrace{H(t)} \\ \uparrow \\ \overline{\overline{F(t)}} \\ \uparrow \\ \overbrace{A(t)} \\ \uparrow \\ \overline{\overline{D(t)}} \\ \uparrow \\ \overline{Q(t)} \\ \uparrow \\ B(t) \end{array} & = & \begin{array}{c} C(t) \\ \uparrow \\ \overline{P_1(t) \cup P_2(t)} \\ \uparrow \\ \overline{S(t)} \\ \uparrow \\ \overbrace{R(t)} \\ \uparrow \\ \overline{\overline{G(t)}} \\ \uparrow \\ \overbrace{O(t)} \\ \uparrow \\ \overline{\overline{U(t)}} \\ \uparrow \\ \overline{\overline{V(t)}} \\ \dots \end{array} & \text{FZprt}(t) & \begin{array}{c} \dots \\ \overline{\overline{W(t)}} \\ \uparrow \\ \overbrace{J(t)} \\ \uparrow \\ \overbrace{H(t)} \\ \uparrow \\ \overline{\overline{F(t)}} \\ \uparrow \\ \overbrace{A(t)} \\ \uparrow \\ \overline{\overline{D(t)}} \\ \uparrow \\ \overline{Q(t)} \\ \uparrow \\ B(t) \end{array} & \text{(A.2.4.2.5),}
\end{array}$$

$$\begin{array}{ccccccc}
\begin{array}{c} C(t) \\ \uparrow \\ \overline{P(t)} \\ \uparrow \\ \overline{S(t)} \\ \uparrow \\ \overbrace{R(t)} \\ \uparrow \\ \overline{\overline{G(t)}} \\ \uparrow \\ \overbrace{O(t)} \\ \uparrow \\ \overline{\overline{U(t)}} \\ \uparrow \\ \overline{\overline{V(t)}} \\ \dots \end{array} & \text{FZprt}(t) & \begin{array}{c} \dots \\ \overline{\overline{W(t)}} \\ \uparrow \\ \overbrace{J(t)} \\ \uparrow \\ \overbrace{H(t)} \\ \uparrow \\ \overline{\overline{F(t)}} \\ \uparrow \\ \overbrace{A(t)} \\ \uparrow \\ \overline{\overline{D(t)}} \\ \uparrow \\ \overline{Q_1(t)} \\ \uparrow \\ B(t) \end{array} & + & \begin{array}{c} C(t) \\ \uparrow \\ \overline{P(t)} \\ \uparrow \\ \overline{S(t)} \\ \uparrow \\ \overbrace{R(t)} \\ \uparrow \\ \overline{\overline{G(t)}} \\ \uparrow \\ \overbrace{O(t)} \\ \uparrow \\ \overline{\overline{U(t)}} \\ \uparrow \\ \overline{\overline{V(t)}} \\ \dots \end{array} & \text{FZprt}(t) & \begin{array}{c} \dots \\ \overline{\overline{W(t)}} \\ \uparrow \\ \overbrace{J(t)} \\ \uparrow \\ \overbrace{H(t)} \\ \uparrow \\ \overline{\overline{F(t)}} \\ \uparrow \\ \overbrace{A(t)} \\ \uparrow \\ \overline{\overline{D(t)}} \\ \uparrow \\ \overline{Q_2(t)} \\ \uparrow \\ B(t) \end{array} & = & \dots
\end{array}$$

$$\begin{array}{c}
 C(t) \\
 \uparrow \\
 \overline{P(t)} \\
 \uparrow \\
 \overline{S(t)} \\
 \uparrow \\
 \overbrace{R(t)} \\
 \uparrow \\
 \overline{G(t)} \text{ FZprt}(t) \\
 \uparrow \\
 \overbrace{O(t)} \\
 \uparrow \\
 \overline{U(t)} \\
 \uparrow \\
 \overline{V(t)} \\
 \dots \\
 \end{array}
 \quad
 \begin{array}{c}
 \dots \\
 \overline{\overline{W(t)}} \\
 \uparrow \\
 \overline{J(t)} \\
 \uparrow \\
 \overline{H(t)} \\
 \uparrow \\
 \overline{F(t)} \\
 \uparrow \\
 \overline{A(t)} \\
 \uparrow \\
 \overline{D(t)} \\
 \uparrow \\
 \overline{Q_1(t) \cup Q_2(t)} \\
 \uparrow \\
 B(t)
 \end{array}
 \quad (A.2.4.2.6),$$

$$\begin{array}{c}
 C(t) \\
 \uparrow \\
 \overline{P(t)} \\
 \uparrow \\
 \overline{S(t)} \\
 \uparrow \\
 \overbrace{R(t)} \\
 \uparrow \\
 \overline{G(t)} \text{ FZprt}(t) \\
 \uparrow \\
 \overbrace{O(t)} \\
 \uparrow \\
 \overline{U(t)} \\
 \uparrow \\
 \overline{V(t)} \\
 \dots \\
 \end{array}
 \quad
 \begin{array}{c}
 \dots \\
 \overline{\overline{W(t)}} \\
 \uparrow \\
 \overline{J(t)} \\
 \uparrow \\
 \overline{H(t)} \\
 \uparrow \\
 \overline{F(t)} \\
 \uparrow \\
 \overline{A_1(t)} \\
 \uparrow \\
 \overline{D(t)} \\
 \uparrow \\
 \overline{Q(t)} \\
 \uparrow \\
 B(t)
 \end{array}
 +
 \begin{array}{c}
 C(t) \\
 \uparrow \\
 \overline{P(t)} \\
 \uparrow \\
 \overline{S(t)} \\
 \uparrow \\
 \overbrace{R(t)} \\
 \uparrow \\
 \overline{G(t)} \text{ FZprt}(t) \\
 \uparrow \\
 \overbrace{O(t)} \\
 \uparrow \\
 \overline{U(t)} \\
 \uparrow \\
 \overline{V(t)} \\
 \dots \\
 \end{array}
 \quad
 \begin{array}{c}
 \dots \\
 \overline{\overline{W(t)}} \\
 \uparrow \\
 \overline{J(t)} \\
 \uparrow \\
 \overline{H(t)} \\
 \uparrow \\
 \overline{F(t)} \\
 \uparrow \\
 \overline{A_2(t)} \\
 \uparrow \\
 \overline{D(t)} \\
 \uparrow \\
 \overline{Q(t)} \\
 \uparrow \\
 B(t)
 \end{array}
 =
 \begin{array}{c}
 C(t) \\
 \uparrow \\
 \overline{P(t)} \\
 \uparrow \\
 \overline{S(t)} \\
 \uparrow \\
 \overbrace{R(t)} \\
 \uparrow \\
 \overline{G(t)} \text{ FZprt}(t) \\
 \uparrow \\
 \overbrace{O(t)} \\
 \uparrow \\
 \overline{U(t)} \\
 \uparrow \\
 \overline{V(t)} \\
 \dots \\
 \end{array}
 \quad
 \begin{array}{c}
 \dots \\
 \overline{\overline{W(t)}} \\
 \uparrow \\
 \overline{J(t)} \\
 \uparrow \\
 \overline{H(t)} \\
 \uparrow \\
 \overline{F(t)} \\
 \uparrow \\
 \overline{A_1(t) \cup A_2(t)} \\
 \uparrow \\
 \overline{D(t)} \\
 \uparrow \\
 \overline{Q(t)} \\
 \uparrow \\
 B(t)
 \end{array}
 \quad (A.2.4.2.7),$$

$$\begin{array}{ccccccc}
C(t) & & \dots & & C(t) & & \dots \\
\uparrow & & \overline{\overline{W(t)}} & & \uparrow & & \overline{\overline{W(t)}} \\
\overline{P(t)} & & \uparrow & & \overline{P(t)} & & \uparrow \\
\overline{S(t)} & & \overline{J(t)} & & \overline{S(t)} & & \overline{J(t)} \\
\uparrow & & \uparrow & & \uparrow & & \uparrow \\
\overline{R(t)} & & \overline{H(t)} & & \overline{R(t)} & & \overline{H(t)} \\
\uparrow & & \uparrow & & \overline{R(t)} & & \uparrow \\
\overline{\overline{G_1(t)}} & \text{FZprt}(t) & \overline{\overline{F(t)}} & + & \overline{\overline{G_2(t)}} & \text{FZprt}(t) & \overline{\overline{F(t)}} \\
\uparrow & & \uparrow & & \uparrow & & \uparrow \\
\overline{O(t)} & & \overline{A(t)} & & \overline{O(t)} & & \overline{A(t)} \\
\uparrow & & \uparrow & & \uparrow & & \uparrow \\
\overline{U(t)} & & \overline{D(t)} & & \overline{U(t)} & & \overline{D(t)} \\
\uparrow & & \uparrow & & \uparrow & & \uparrow \\
\overline{\overline{V(t)}} & & \overline{Q(t)} & & \overline{\overline{V(t)}} & & \overline{Q(t)} \\
\uparrow & & \uparrow & & \uparrow & & \uparrow \\
\dots & & B(t) & & \dots & & B(t)
\end{array}
\quad (A.2.4.2.8),$$

$$\begin{array}{ccccccc}
C(t) & & \dots & & C(t) & & \dots \\
\uparrow & & \overline{\overline{W(t)}} & & \uparrow & & \overline{\overline{W(t)}} \\
\overline{P(t)} & & \uparrow & & \overline{P(t)} & & \uparrow \\
\overline{S(t)} & & \overline{J(t)} & & \overline{S(t)} & & \overline{J(t)} \\
\uparrow & & \uparrow & & \uparrow & & \uparrow \\
\overline{R(t)} & & \overline{H(t)} & & \overline{R(t)} & & \overline{H(t)} \\
\uparrow & & \uparrow & & \overline{R(t)} & & \uparrow \\
\overline{\overline{G(t)}} & \text{FZprt}(t) & \overline{\overline{F(t)}} & + & \overline{\overline{G(t)}} & \text{FZprt}(t) & \overline{\overline{F(t)}} \\
\uparrow & & \uparrow & & \uparrow & & \uparrow \\
\overline{O_1(t)} & & \overline{A(t)} & & \overline{O_1(t)} \cup \overline{O_2(t)} & & \overline{A(t)} \\
\uparrow & & \uparrow & & \uparrow & & \uparrow \\
\overline{U(t)} & & \overline{D(t)} & & \overline{U(t)} & & \overline{D(t)} \\
\uparrow & & \uparrow & & \uparrow & & \uparrow \\
\overline{\overline{V(t)}} & & \overline{Q(t)} & & \overline{\overline{V(t)}} & & \overline{Q(t)} \\
\uparrow & & \uparrow & & \uparrow & & \uparrow \\
\dots & & B(t) & & \dots & & B(t)
\end{array}
\quad (A.2.4.2.9),$$

$$\begin{array}{c}
C(t) \\
\uparrow \\
\overline{P(t)} \\
\uparrow \\
\overline{S(t)} \\
\uparrow \\
\overline{R(t)} \\
\uparrow \\
\overline{G(t)} \text{ FZprt}(t) \\
\uparrow \\
\overline{O(t)} \\
\uparrow \\
\overline{U(t)} \\
\uparrow \\
\overline{V(t)} \\
\uparrow \\
\vdots
\end{array}
+
\begin{array}{c}
\overline{W(t)} \\
\uparrow \\
\overline{J(t)} \\
\uparrow \\
\overline{H(t)} \\
\uparrow \\
\overline{F_1(t)} \\
\uparrow \\
\overline{A(t)} \\
\uparrow \\
\overline{D(t)} \\
\uparrow \\
\overline{Q(t)} \\
\uparrow \\
\overline{B(t)}
\end{array}
=
\begin{array}{c}
C(t) \\
\uparrow \\
\overline{P(t)} \\
\uparrow \\
\overline{S(t)} \\
\uparrow \\
\overline{R(t)} \\
\uparrow \\
\overline{G(t)} \text{ FZprt}(t) \\
\uparrow \\
\overline{O(t)} \\
\uparrow \\
\overline{D(t)} \\
\uparrow \\
\overline{Q(t)} \\
\uparrow \\
\overline{B(t)}
\end{array}$$

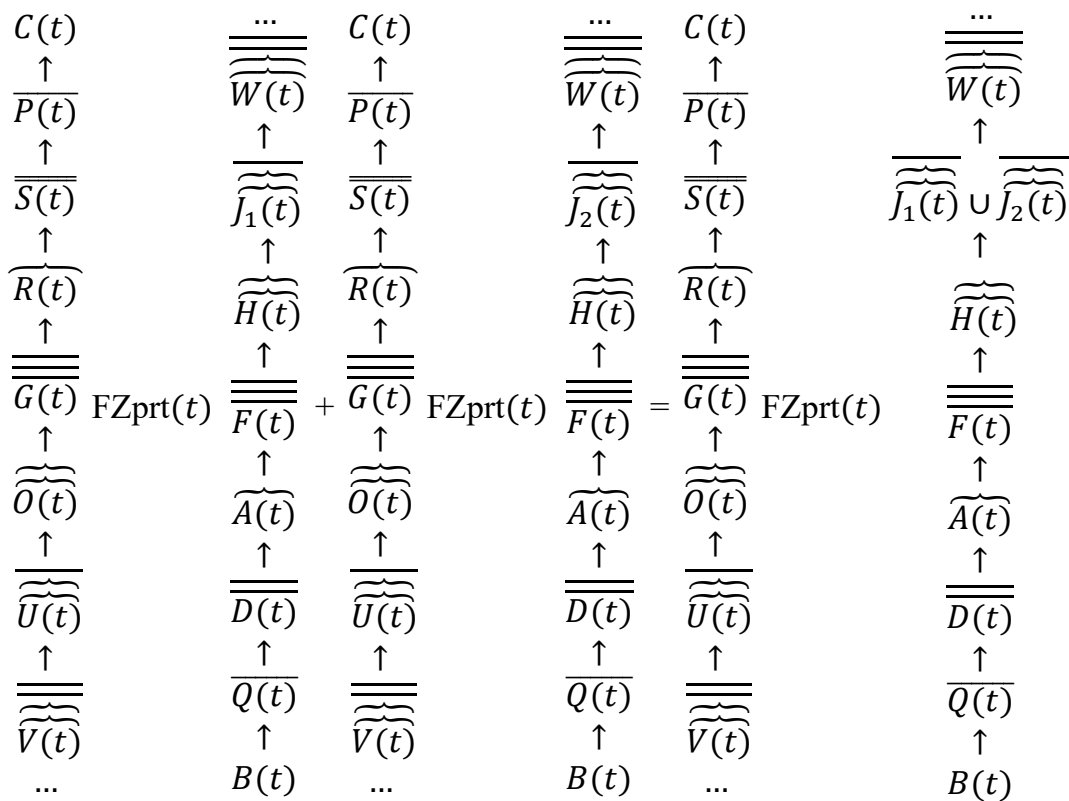
$$\begin{array}{c}
C(t) \\
\uparrow \\
\overline{P(t)} \\
\uparrow \\
\overline{S(t)} \\
\uparrow \\
\overline{R(t)} \\
\uparrow \\
\overline{G(t)} \text{ FZprt}(t) \\
\uparrow \\
\overline{O(t)} \\
\uparrow \\
\overline{U(t)} \\
\uparrow \\
\overline{V(t)} \\
\uparrow \\
\vdots
\end{array}
=
\begin{array}{c}
\overline{W(t)} \\
\uparrow \\
\overline{J(t)} \\
\uparrow \\
\overline{H(t)} \\
\uparrow \\
\overline{F_1(t)} \cup \overline{F_2(t)} \text{ (A.2.4.2.10)} \\
\uparrow \\
\overline{A(t)} \\
\uparrow \\
\overline{D(t)} \\
\uparrow \\
\overline{Q(t)} \\
\uparrow \\
\overline{B(t)}
\end{array}$$

$$\begin{array}{ccccccc}
C(t) & & \dots & & C(t) & & \dots \\
\uparrow & & \overline{\overline{W(t)}} & & \uparrow & & \overline{\overline{W(t)}} \\
P(t) & & \uparrow & & P(t) & & \uparrow \\
\overline{\overline{S(t)}} & & \overline{\overline{J(t)}} & & \overline{\overline{S(t)}} & & \overline{\overline{J(t)}} \\
\uparrow & & \uparrow & & \uparrow & & \uparrow \\
R(t) & & \overline{\overline{H(t)}} & & R(t) & & \overline{\overline{H(t)}} \\
\uparrow & & \uparrow & & \uparrow & & \uparrow \\
\overline{\overline{G(t)}} & \text{FZprt}(t) & \overline{\overline{F(t)}} & + & \overline{\overline{G(t)}} & \text{FZprt}(t) & \overline{\overline{F(t)}} = \\
\uparrow & & \uparrow & & \uparrow & & \uparrow \\
\overline{\overline{O(t)}} & & \overline{\overline{A(t)}} & & \overline{\overline{O(t)}} & & \overline{\overline{A(t)}} \\
\uparrow & & \uparrow & & \uparrow & & \uparrow \\
\overline{\overline{U_1(t)}} & & \overline{\overline{D(t)}} & & \overline{\overline{U_1(t)} \cup \overline{\overline{U_2(t)}}} & & \overline{\overline{D(t)}} \\
\uparrow & & \uparrow & & \uparrow & & \uparrow \\
\overline{\overline{V(t)}} & & \overline{\overline{Q(t)}} & & \overline{\overline{V(t)}} & & \overline{\overline{Q(t)}} \\
\uparrow & & \uparrow & & \uparrow & & \uparrow \\
\dots & & B(t) & & \dots & & B(t)
\end{array}$$

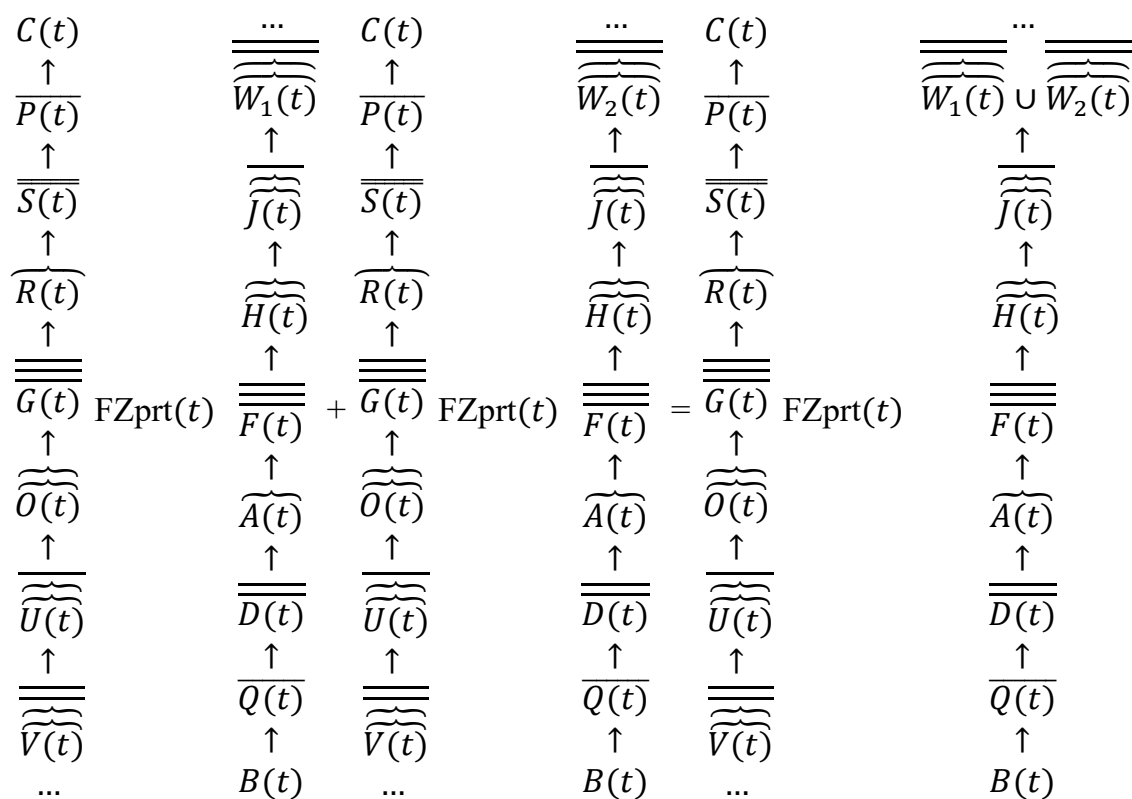
(A. 2.4.2.10.3),

$$\begin{array}{ccccccc}
C(t) & & \dots & & C(t) & & \dots \\
\uparrow & & \overline{\overline{W(t)}} & & \uparrow & & \overline{\overline{W(t)}} \\
P(t) & & \uparrow & & P(t) & & \uparrow \\
\overline{\overline{S(t)}} & & \overline{\overline{J(t)}} & & \overline{\overline{S(t)}} & & \overline{\overline{J(t)}} \\
\uparrow & & \uparrow & & \uparrow & & \uparrow \\
R(t) & & \overline{\overline{H(t)}} & & R(t) & & \overline{\overline{H(t)}} \\
\uparrow & & \uparrow & & \uparrow & & \uparrow \\
\overline{\overline{G(t)}} & \text{FZprt}(t) & \overline{\overline{F(t)}} & + & \overline{\overline{G(t)}} & \text{FZprt}(t) & \overline{\overline{F(t)}} = \\
\uparrow & & \uparrow & & \uparrow & & \uparrow \\
\overline{\overline{O(t)}} & & \overline{\overline{A(t)}} & & \overline{\overline{O(t)}} & & \overline{\overline{A(t)}} \\
\uparrow & & \uparrow & & \uparrow & & \uparrow \\
\overline{\overline{U(t)}} & & \overline{\overline{D(t)}} & & \overline{\overline{U(t)}} & & \overline{\overline{D(t)}} \\
\uparrow & & \uparrow & & \uparrow & & \uparrow \\
\overline{\overline{V_1(t)}} & & \overline{\overline{Q(t)}} & & \overline{\overline{V_1(t)} \cup \overline{\overline{V_2(t)}}} & & \overline{\overline{Q(t)}} \\
\uparrow & & \uparrow & & \uparrow & & \uparrow \\
\dots & & B(t) & & \dots & & B(t)
\end{array}$$

(A. 2.4.2.10.4),



(A. 2.4.2.10.5),



(A. 2.4.2.10.6).

We consider the following self-type dynamic FZprt-structures of the first type:

$$\begin{array}{ccc}
 \text{str}A(t) & & \dots \\
 \uparrow & & \overbrace{\overbrace{\overbrace{\dots}}^{a(t)}} \\
 \overline{Q(t)} & & \uparrow \\
 \uparrow & & \overbrace{\overbrace{\overbrace{\dots}}^{Q(t)}} \\
 \overline{\overline{Q(t)}} & & \uparrow \\
 \uparrow & & \overbrace{\overbrace{\overbrace{\dots}}^{Q(t)}} \\
 \overbrace{\overbrace{\overbrace{\dots}}^{Q(t)}} & & \uparrow \\
 \uparrow & & \overline{\overline{Q(t)}} \\
 \overline{\overline{\overline{Q(t)}}} & \text{FZprt}(t) & \overline{\overline{Q(t)}} \quad (\text{A.2.4.7}), \\
 \uparrow & & \uparrow \\
 \overbrace{\overbrace{\overbrace{\dots}}^{Q(t)}} & & \overbrace{\overbrace{\overbrace{\dots}}^{Q(t)}} \\
 \uparrow & & \uparrow \\
 \overline{\overline{Q(t)}} & & \overline{\overline{Q(t)}} \\
 \uparrow & & \uparrow \\
 \overline{\overline{\overline{Q(t)}}} & & \overline{Q(t)} \\
 \uparrow & & \uparrow \\
 \overbrace{\overbrace{\overbrace{\dots}}^{a(t)}} & & \text{str}A(t) \\
 \dots & &
 \end{array}$$

$$\begin{array}{ccc}
 B(t) & & \dots \\
 \uparrow & & \overbrace{\overbrace{\overbrace{\dots}}^{B(t)}} \\
 \overline{Q(t)} & & \uparrow \\
 \uparrow & & \overbrace{\overbrace{\overbrace{\dots}}^{Q(t)}} \\
 \overline{\overline{Q(t)}} & & \uparrow \\
 \uparrow & & \overbrace{\overbrace{\overbrace{\dots}}^{A(t)}} \\
 \overbrace{\overbrace{\overbrace{\dots}}^{Q(t)}} & & \uparrow \\
 \uparrow & & \overline{\overline{Q(t)}} \\
 \overline{\overline{\overline{Q(t)}}} & \text{Zprt}(t) & \overline{\overline{Q(t)}} \quad (\text{A.2.4.7.1}), \\
 \uparrow & & \uparrow \\
 \overbrace{\overbrace{\overbrace{\dots}}^{A(t)}} & & \overbrace{\overbrace{\overbrace{\dots}}^{B(t)}} \\
 \uparrow & & \uparrow \\
 \overline{\overline{Q(t)}} & & \overline{\overline{Q(t)}} \\
 \uparrow & & \uparrow \\
 \overline{\overline{\overline{Q(t)}}} & & \overline{Q(t)} \\
 \uparrow & & \uparrow \\
 \overbrace{\overbrace{\overbrace{\dots}}^{B(t)}} & & B(t) \\
 \dots & &
 \end{array}$$

and any other possible options of self for (A.2.4.1) etc.

It can be considered a simpler version of the fuzzy dynamic operator

$$\begin{array}{c}
 \dots \\
 \overline{\overline{\overline{W(t)}}} \\
 \uparrow \\
 \overline{\overline{J(t)}} \\
 \uparrow \\
 \overline{\overline{H(t)}} \\
 \uparrow \\
 \text{FZprt}(t) \overline{\overline{F(t)}} \text{ (A.2.4.8)} \\
 \uparrow \\
 \overline{\overline{A(t)}} \\
 \uparrow \\
 \overline{\overline{D(t)}} \\
 \uparrow \\
 \overline{Q(t)} \\
 \uparrow \\
 B(t)
 \end{array}$$

where $\overline{\overline{\overline{W(t)}}$ - *parelf* levels of fuzzy $W(t)$, $\overline{\overline{J(t)}}$ – singelf levels of fuzzy $J(t)$, $\overline{\overline{H(t)}}$ - paradoxical upper level of fuzzy $H(t)$, $\overline{\overline{F(t)}}$ - paradoxical average level of fuzzy $F(t)$, $\overline{\overline{A(t)}}$ - upper level of fuzzy $A(t)$, $\overline{Q(t)}$ - middle₁ level of fuzzy $Q(t)$, fuzzy $B(t)$ goes to the middle₁ level of $Q(t)$ - $\overline{Q(t)}$, $\overline{Q(t)}$ goes to the middle₂ level $\overline{\overline{D(t)}}$, fuzzy $\overline{\overline{D(t)}}$ goes to the upper level of $A(t)$ - $\overline{\overline{A(t)}}$, $\overline{\overline{A(t)}}$ goes to the paradoxical middle level of $F(t)$ - $\overline{\overline{F(t)}}$, $\overline{\overline{F(t)}}$ goes to the paradoxical upper level of $H(t)$ - $\overline{\overline{H(t)}}$, $\overline{\overline{H(t)}}$ goes to the singelf levels of $J(t)$ - $\overline{\overline{J(t)}}$, $\overline{\overline{J(t)}}$ goes to the *parelf* levels of $W(t)$ - $\overline{\overline{\overline{W(t)}}$ simultaneously, the result of this process will be described by the expression

$$\begin{array}{c}
 \dots \\
 \overline{\overline{W(t)}} \\
 \uparrow \\
 \overline{\overline{J(t)}} \\
 \uparrow \\
 \overline{\overline{H(t)}} \\
 \uparrow \\
 \text{FZrt}(t) \overline{\overline{F(t)}} \text{ (A.2.4.9),} \\
 \uparrow \\
 \overline{\overline{A(t)}} \\
 \uparrow \\
 \overline{\overline{D(t)}} \\
 \uparrow \\
 \overline{\overline{Q(t)}} \\
 \uparrow \\
 B(t)
 \end{array}$$

or

$$\begin{array}{c}
 C(t) \\
 \uparrow \\
 \overline{\overline{P(t)}} \\
 \uparrow \\
 \overline{\overline{S(t)}} \\
 \uparrow \\
 \overline{\overline{R(t)}} \\
 \uparrow \\
 \overline{\overline{G(t)}} \text{ Zprt}(t) \text{ (A.2.4.10),} \\
 \uparrow \\
 \overline{\overline{O(t)}} \\
 \uparrow \\
 \overline{\overline{U(t)}} \\
 \uparrow \\
 \overline{\overline{V(t)}} \\
 \dots
 \end{array}$$

where $\overline{\overline{V(t)}}$ - *parelf* levels of fuzzy $V(t)$ goes to $\overline{\overline{U(t)}}$ - singelf levels of fuzzy $U(t)$, $\overline{\overline{O(t)}}$ - paradoxical upper level of fuzzy $O(t)$, $\overline{\overline{G(t)}}$ - paradoxical average level of fuzzy $G(t)$, $\overline{\overline{R(t)}}$ - upper levels of fuzzy $R(t)$, $\overline{\overline{P(t)}}$ - middle₁ level of fuzzy $P(t)$, $\overline{\overline{O(t)}}$ goes to the paradoxical middle level of $G(t)$ - $\overline{\overline{G(t)}}$, $\overline{\overline{G(t)}}$ goes to the upper level of $R(t)$ - $\overline{\overline{R(t)}}$, $\overline{\overline{R(t)}}$ goes to the middle₂ level

$\overline{\overline{S(t)}}$, $\overline{S(t)}$ goes to the middle₁ level of $P(t) - \overline{P(t)}$, $\overline{P(t)}$ goes to the lower level of $C(t)$ simultaneously, the result of this process will be described by the expression

$$\begin{array}{c}
 C(t) \\
 \uparrow \\
 \overline{P(t)} \\
 \uparrow \\
 \overline{\overline{S(t)}} \\
 \uparrow \\
 \overbrace{R(t)} \\
 \uparrow \\
 \equiv \\
 G(t) \text{ FZrt}(t) \text{ (A.2.4.11)}, \\
 \uparrow \\
 \overbrace{O(t)} \\
 \uparrow \\
 \overline{\overbrace{U(t)}} \\
 \uparrow \\
 \overline{\overbrace{V(t)}} \\
 \dots
 \end{array}$$

Definition 11

The dynamic operator (A.2.4.8) we shall call dynamic FZprt – element of the second type, (A.2.4.9) we shall call dynamic FZrt – element of the second type.

It's allowed to add dynamic FZprt – elements of the second type:

$$\begin{array}{c}
 \dots \\
 \overline{\overline{W(t)}} \\
 \uparrow \\
 \overline{\overline{J(t)}} \\
 \uparrow \\
 \overline{\overline{H(t)}} \\
 \uparrow \\
 \text{FZprt}(t) \overline{\overline{F(t)}} + \text{FZprt}(t) \overline{\overline{F(t)}} = \text{FZprt}(t) \overline{\overline{F(t)}} \quad (\text{A.2.4.12}), \\
 \uparrow \\
 \overline{A_1(t)} \quad \overline{A_2(t)} \quad \overline{A_1(t) \cup A_2(t)} \\
 \uparrow \\
 \overline{\overline{D(t)}} \\
 \uparrow \\
 \overline{Q(t)} \\
 \uparrow \\
 B(t)
 \end{array}$$

$$\begin{array}{c}
 \dots \\
 \overline{\overline{W(t)}} \\
 \uparrow \\
 \overline{\overline{J(t)}} \\
 \uparrow \\
 \overline{\overline{H(t)}} \\
 \uparrow \\
 \text{FZprt}(t) \overline{\overline{F(t)}} + \text{FZprt}(t) \overline{\overline{F(t)}} = \text{FZprt}(t) \overline{\overline{F(t)}} \quad (\text{A.2.4.13}), \\
 \uparrow \\
 \overline{A(t)} \\
 \uparrow \\
 \overline{\overline{D(t)}} \\
 \uparrow \\
 \overline{Q(t)} \\
 \uparrow \\
 B_1(t) \quad B_1(t) \quad B_1(t) \cup B_2(t)
 \end{array}$$

$$\begin{array}{c}
 \overline{\overline{\overline{W(t)}}} \\
 \uparrow \\
 \overline{\overline{J(t)}} \\
 \uparrow \\
 \overline{\overline{H(t)}} \\
 \uparrow \\
 \overline{\overline{F(t)}} \\
 \uparrow \\
 \overline{\overline{A(t)}} \\
 \uparrow \\
 \overline{\overline{D(t)}} \\
 \uparrow \\
 \overline{Q_1(t)} \\
 \uparrow \\
 B(t)
 \end{array}
 +
 \begin{array}{c}
 \overline{\overline{\overline{W(t)}}} \\
 \uparrow \\
 \overline{\overline{J(t)}} \\
 \uparrow \\
 \overline{\overline{H(t)}} \\
 \uparrow \\
 \overline{\overline{F(t)}} \\
 \uparrow \\
 \overline{\overline{A(t)}} \\
 \uparrow \\
 \overline{\overline{D(t)}} \\
 \uparrow \\
 \overline{Q_2(t)} \\
 \uparrow \\
 B(t)
 \end{array}
 =
 \begin{array}{c}
 \overline{\overline{\overline{W(t)}}} \\
 \uparrow \\
 \overline{\overline{J(t)}} \\
 \uparrow \\
 \overline{\overline{H(t)}} \\
 \uparrow \\
 \overline{\overline{F(t)}} \\
 \uparrow \\
 \overline{\overline{A(t)}} \\
 \uparrow \\
 \overline{\overline{D(t)}} \\
 \uparrow \\
 \overline{Q_1(t) \cup Q_2(t)} \\
 \uparrow \\
 B(t)
 \end{array}
 \quad (A.2.4.13.1),$$

$$\begin{array}{c}
 \overline{\overline{\overline{W(t)}}} \\
 \uparrow \\
 \overline{\overline{J(t)}} \\
 \uparrow \\
 \overline{\overline{H_1(t)}} \\
 \uparrow \\
 \overline{\overline{F(t)}} \\
 \uparrow \\
 \overline{\overline{A(t)}} \\
 \uparrow \\
 \overline{\overline{D(t)}} \\
 \uparrow \\
 \overline{Q(t)} \\
 \uparrow \\
 B(t)
 \end{array}
 +
 \begin{array}{c}
 \overline{\overline{\overline{W(t)}}} \\
 \uparrow \\
 \overline{\overline{J(t)}} \\
 \uparrow \\
 \overline{\overline{H_2(t)}} \\
 \uparrow \\
 \overline{\overline{F(t)}} \\
 \uparrow \\
 \overline{\overline{A(t)}} \\
 \uparrow \\
 \overline{\overline{D(t)}} \\
 \uparrow \\
 \overline{Q(t)} \\
 \uparrow \\
 B(t)
 \end{array}
 =
 \begin{array}{c}
 \overline{\overline{\overline{W(t)}}} \\
 \uparrow \\
 \overline{\overline{J(t)}} \\
 \uparrow \\
 \overline{\overline{H_1(t) \cup H_2(t)}} \\
 \uparrow \\
 \overline{\overline{F(t)}} \\
 \uparrow \\
 \overline{\overline{A(t)}} \\
 \uparrow \\
 \overline{\overline{D(t)}} \\
 \uparrow \\
 \overline{Q(t)} \\
 \uparrow \\
 B(t)
 \end{array}
 \quad (A.2.4.13.2),$$

$$\begin{array}{c}
 \overline{\overline{\overline{\dots}}} \\
 \overline{\overline{W(t)}} \\
 \uparrow \\
 \overline{\overline{J(t)}} \\
 \uparrow \\
 \overline{\overline{H(t)}} \\
 \uparrow \\
 \overline{\overline{F_1(t)}} \\
 \text{FZprt}(t)
 \end{array}
 +
 \begin{array}{c}
 \overline{\overline{\overline{\dots}}} \\
 \overline{\overline{W(t)}} \\
 \uparrow \\
 \overline{\overline{J(t)}} \\
 \uparrow \\
 \overline{\overline{H(t)}} \\
 \uparrow \\
 \overline{\overline{F_2(t)}} \\
 \text{FZprt}(t)
 \end{array}
 =
 \begin{array}{c}
 \overline{\overline{\overline{\dots}}} \\
 \overline{\overline{W(t)}} \\
 \uparrow \\
 \overline{\overline{J(t)}} \\
 \uparrow \\
 \overline{\overline{H(t)}} \\
 \uparrow \\
 \overline{\overline{F_1(t) \cup F_2(t)}} \\
 \text{FZprt}(t)
 \end{array}
 \quad (\text{A.2.4.13.3}).$$

$$\begin{array}{c}
 \overline{\overline{\overline{\dots}}} \\
 \overline{\overline{W(t)}} \\
 \uparrow \\
 \overline{\overline{J(t)}} \\
 \uparrow \\
 \overline{\overline{H(t)}} \\
 \uparrow \\
 \overline{\overline{F(t)}} \\
 \text{FZprt}(t)
 \end{array}
 +
 \begin{array}{c}
 \overline{\overline{\overline{\dots}}} \\
 \overline{\overline{W(t)}} \\
 \uparrow \\
 \overline{\overline{J(t)}} \\
 \uparrow \\
 \overline{\overline{H(t)}} \\
 \uparrow \\
 \overline{\overline{F(t)}} \\
 \text{FZprt}(t)
 \end{array}
 =
 \begin{array}{c}
 \overline{\overline{\overline{\dots}}} \\
 \overline{\overline{W(t)}} \\
 \uparrow \\
 \overline{\overline{J(t)}} \\
 \uparrow \\
 \overline{\overline{H(t)}} \\
 \uparrow \\
 \overline{\overline{F(t)}} \\
 \text{FZprt}(t)
 \end{array}
 \quad (\text{A. 2.4.13.3.1}),$$

$$\begin{array}{c}
\overline{\overline{\overline{\dots}}} \\
\overline{\overline{W_1(t)}} \\
\uparrow \\
\overline{\overline{J(t)}} \\
\uparrow \\
\overline{\overline{H(t)}} \\
\uparrow \\
\overline{\overline{F(t)}} \\
\uparrow \\
\overline{\overline{A(t)}} \\
\uparrow \\
\overline{\overline{D(t)}} \\
\uparrow \\
\overline{\overline{Q(t)}} \\
\uparrow \\
B(t)
\end{array}
+
\begin{array}{c}
\overline{\overline{\overline{\dots}}} \\
\overline{\overline{W_2(t)}} \\
\uparrow \\
\overline{\overline{J(t)}} \\
\uparrow \\
\overline{\overline{H(t)}} \\
\uparrow \\
\overline{\overline{F(t)}} \\
\uparrow \\
\overline{\overline{A(t)}} \\
\uparrow \\
\overline{\overline{D(t)}} \\
\uparrow \\
\overline{\overline{Q(t)}} \\
\uparrow \\
B(t)
\end{array}
=
\begin{array}{c}
\overline{\overline{\overline{\dots}}} \\
\overline{\overline{W_1(t) \cup W_1(t)}} \\
\uparrow \\
\overline{\overline{J(t)}} \\
\uparrow \\
\overline{\overline{H(t)}} \\
\uparrow \\
\overline{\overline{F(t)}} \\
\uparrow \\
\overline{\overline{A(t)}} \\
\uparrow \\
\overline{\overline{D(t)}} \\
\uparrow \\
\overline{\overline{Q(t)}} \\
\uparrow \\
B(t)
\end{array}
\quad (\text{A. 2.4.13.3.2}),$$

$$\begin{array}{c}
\overline{\overline{\overline{\dots}}} \\
\overline{\overline{W(t)}} \\
\uparrow \\
\overline{\overline{J_1(t)}} \\
\uparrow \\
\overline{\overline{H(t)}} \\
\uparrow \\
\overline{\overline{F(t)}} \\
\uparrow \\
\overline{\overline{A(t)}} \\
\uparrow \\
\overline{\overline{D(t)}} \\
\uparrow \\
\overline{\overline{Q(t)}} \\
\uparrow \\
B(t)
\end{array}
+
\begin{array}{c}
\overline{\overline{\overline{\dots}}} \\
\overline{\overline{W(t)}} \\
\uparrow \\
\overline{\overline{J_2(t)}} \\
\uparrow \\
\overline{\overline{H(t)}} \\
\uparrow \\
\overline{\overline{F(t)}} \\
\uparrow \\
\overline{\overline{A(t)}} \\
\uparrow \\
\overline{\overline{D(t)}} \\
\uparrow \\
\overline{\overline{Q(t)}} \\
\uparrow \\
B(t)
\end{array}
=
\begin{array}{c}
\overline{\overline{\overline{\dots}}} \\
\overline{\overline{W(t)}} \\
\uparrow \\
\overline{\overline{J_1(t) \cup J_2(t)}} \\
\uparrow \\
\overline{\overline{H(t)}} \\
\uparrow \\
\overline{\overline{F(t)}} \\
\uparrow \\
\overline{\overline{A(t)}} \\
\uparrow \\
\overline{\overline{D(t)}} \\
\uparrow \\
\overline{\overline{Q(t)}} \\
\uparrow \\
B(t)
\end{array}
\quad (\text{A. 2.4.13.3.3}).$$

We consider the following self-type dynamic FZprt-structures of the second t type:

$$\begin{array}{c}
\cdots \\
\overline{\overline{\overline{Q(t)}}} \\
\uparrow \\
\overline{\overline{\overline{Q(t)}}} \\
\uparrow \\
\overline{\overline{\overline{\text{str } A(t)}}} \\
\uparrow \\
\text{FZprt}(t) \overline{\overline{\overline{Q(t)}}} \quad (\text{A.2.4.14}), \\
\uparrow \\
\overline{\overline{\overline{Q(t)}}} \\
\uparrow \\
\overline{\overline{\overline{Q(t)}}} \\
\uparrow \\
\overline{\overline{\overline{Q(t)}}} \\
\uparrow \\
\overline{\overline{\overline{Q(t)}}} \\
\uparrow \\
\overline{\overline{\overline{Q(t)}}} \\
\uparrow \\
\overline{\overline{\overline{Q(t)}}} \\
\uparrow \\
\overline{\overline{\overline{\text{str } A(t)}}} \\
\uparrow \\
\text{FZprt}(t) \overline{\overline{\overline{Q(t)}}} \quad (\text{A.2.4.14.1}), \\
\uparrow \\
\overline{\overline{\overline{Q(t)}}} \\
\uparrow \\
\overline{\overline{\overline{Q(t)}}} \\
\uparrow \\
\overline{\overline{\overline{Q(t)}}} \\
\uparrow \\
a(t)
\end{array}$$

denote $\text{FZ}_{13}(t)fA(t); Q(t); a(t), a(t) \subset A(t)$,

$$\begin{array}{c}
 \dots \\
 \overline{\overline{a(t)}} \\
 \uparrow \\
 \overline{\overline{Q(t)}} \\
 \uparrow \\
 \overline{\overline{str A(t)}} \\
 \uparrow \\
 \text{FZprt}(t) \overline{\overline{Q(t)}} \quad (\text{A.2.4.15}), \\
 \uparrow \\
 \overline{\overline{Q(t)}} \\
 \uparrow \\
 \overline{\overline{Q(t)}} \\
 \uparrow \\
 \overline{\overline{Q(t)}} \\
 \uparrow \\
 \overline{\overline{Q(t)}} \\
 \uparrow \\
 \text{str}A(t)
 \end{array}$$

denote $FZ_{14}(t)fa(t); Q(t); A(t), a(t) \subset A(t)$,

$$\begin{array}{c}
 \dots \\
 \overline{\overline{Q(t)}} \\
 \uparrow \\
 \overline{\overline{Q(t)}} \\
 \uparrow \\
 \overline{\overline{Q(t)}} \\
 \uparrow \\
 \text{FZprt}(t) \overline{\overline{Q(t)}} \quad (\text{A.2.4.16}), \\
 \uparrow \\
 \overline{\overline{A(t)}} \\
 \uparrow \\
 \overline{\overline{Q(t)}} \\
 \uparrow \\
 \overline{\overline{Q(t)}} \\
 \uparrow \\
 \overline{\overline{Q(t)}}
 \end{array}$$

and any other possible options of self for (A.2.4.8) etc.

Definition 12

The fuzzy dynamic operator (A.2.4.10) we shall call dynamic tprFZ – element, (A.2.4.11) we shall call dynamic trFZ – element.

It's allowed to add dynamic tprFZ – elements:

$$\begin{array}{ccc}
 C_1(t) & C_2(t) & C_1(t) \cup C_2(t) \\
 \uparrow & \uparrow & \uparrow \\
 \overline{P(t)} & \overline{P(t)} & \overline{P(t)} \\
 \uparrow & \uparrow & \uparrow \\
 \overline{\overline{S(t)}} & \overline{\overline{S(t)}} & \overline{\overline{S(t)}} \\
 \uparrow & \uparrow & \uparrow \\
 \overline{R(t)} & \overline{R(t)} & \overline{R(t)} \\
 \uparrow & \uparrow & \uparrow \\
 \overline{\overline{\overline{G(t)}}} & \overline{\overline{\overline{G(t)}}} & \overline{\overline{\overline{G(t)}}} \\
 \text{FZprt}(t) + & \text{FZprt}(t) = & \text{FZprt}(t) \quad (\text{A.2.4.17}),
 \end{array}$$

$$\begin{array}{ccc}
 \overline{\overline{O(t)}} & \overline{\overline{O(t)}} & \overline{\overline{O(t)}} \\
 \uparrow & \uparrow & \uparrow \\
 \overline{\overline{U(t)}} & \overline{\overline{U(t)}} & \overline{\overline{U(t)}} \\
 \uparrow & \uparrow & \uparrow \\
 \overline{\overline{V(t)}} & \overline{\overline{V(t)}} & \overline{\overline{V(t)}} \\
 \dots & \dots & \dots \\
 C(t) & C(t) & C(t) \\
 \uparrow & \uparrow & \uparrow \\
 \overline{P(t)} & \overline{P(t)} & \overline{P(t)} \\
 \uparrow & \uparrow & \uparrow \\
 \overline{\overline{S(t)}} & \overline{\overline{S(t)}} & \overline{\overline{S(t)}} \\
 \uparrow & \uparrow & \uparrow \\
 \overline{R_1(t)} & \overline{R_2(t)} & \overline{R_1(t) \cup R_2(t)} \\
 \uparrow & \uparrow & \uparrow \\
 \overline{\overline{\overline{G(t)}}} & \overline{\overline{\overline{G(t)}}} & \overline{\overline{\overline{G(t)}}} \\
 \text{FZprt}(t) + & \text{FZprt}(t) = & \text{FZprt}(t) \quad (\text{A.2.4.18}), \\
 \overline{\overline{O(t)}} & \overline{\overline{O(t)}} & \overline{\overline{O(t)}} \\
 \uparrow & \uparrow & \uparrow \\
 \overline{\overline{U(t)}} & \overline{\overline{U(t)}} & \overline{\overline{U(t)}} \\
 \uparrow & \uparrow & \uparrow \\
 \overline{\overline{V(t)}} & \overline{\overline{V(t)}} & \overline{\overline{V(t)}} \\
 \dots & \dots & \dots
 \end{array}$$

$$\begin{array}{ccc}
C(t) & C(t) & C(t) \\
\uparrow & \uparrow & \uparrow \\
\overline{P_1(t)} & \overline{P_2(t)} & \overline{P_1(t) \cup P_2(t)} \\
\uparrow & \uparrow & \uparrow \\
\overline{\overline{S(t)}} & \overline{\overline{S(t)}} & \overline{\overline{S(t)}} \\
\uparrow & \uparrow & \uparrow \\
\overline{R(t)} & \overline{R(t)} & \overline{R(t)} \\
\uparrow & \uparrow & \uparrow \\
\overline{\overline{\overline{G(t)}}} & \overline{\overline{\overline{G(t)}}} & \overline{\overline{\overline{G(t)}}} \\
\text{FZprt}(t) + & \text{FZprt}(t) = & \text{FZprt}(t) \text{ (A.2.4.18.1),} \\
\uparrow & \uparrow & \uparrow \\
\overline{\overline{\overline{O(t)}}} & \overline{\overline{\overline{O(t)}}} & \overline{\overline{\overline{O(t)}}} \\
\uparrow & \uparrow & \uparrow \\
\overline{\overline{\overline{U(t)}}} & \overline{\overline{\overline{U(t)}}} & \overline{\overline{\overline{U(t)}}} \\
\uparrow & \uparrow & \uparrow \\
\overline{\overline{\overline{V(t)}}} & \overline{\overline{\overline{V(t)}}} & \overline{\overline{\overline{V(t)}}} \\
\dots & \dots & \dots
\end{array}$$

$$\begin{array}{ccc}
C(t) & C(t) & C(t) \\
\uparrow & \uparrow & \uparrow \\
\overline{P(t)} & \overline{P(t)} & \overline{P(t)} \\
\uparrow & \uparrow & \uparrow \\
\overline{\overline{S(t)}} & \overline{\overline{S(t)}} & \overline{\overline{S(t)}} \\
\uparrow & \uparrow & \uparrow \\
\overline{R(t)} & \overline{R(t)} & \overline{R(t)} \\
\uparrow & \uparrow & \uparrow \\
\overline{\overline{\overline{G_1(t)}}} & \overline{\overline{\overline{G_2(t)}}} & \overline{\overline{\overline{G_1(t) \cup G_2(t)}}} \\
\text{FZprt}(t) + & \text{FZprt}(t) = & \text{FZprt}(t) \text{ A.2.4.18.2,} \\
\uparrow & \uparrow & \uparrow \\
\overline{\overline{\overline{O(t)}}} & \overline{\overline{\overline{O(t)}}} & \overline{\overline{\overline{O(t)}}} \\
\uparrow & \uparrow & \uparrow \\
\overline{\overline{\overline{U(t)}}} & \overline{\overline{\overline{U(t)}}} & \overline{\overline{\overline{U(t)}}} \\
\uparrow & \uparrow & \uparrow \\
\overline{\overline{\overline{V(t)}}} & \overline{\overline{\overline{V(t)}}} & \overline{\overline{\overline{V(t)}}} \\
\dots & \dots & \dots
\end{array}$$

$$\begin{array}{c}
C(t) \\
\uparrow \\
\overline{P(t)} \\
\uparrow \\
\overline{\overline{S(t)}} \\
\uparrow \\
\overbrace{R(t)} \\
\uparrow \\
\overline{\overline{G(t)}} \text{ FZprt}(t) + \overline{\overline{G(t)}} \text{ FZprt}(t) = \\
\uparrow \\
\overbrace{\overline{O_1(t)}} \quad \overbrace{\overline{O_2(t)}} \\
\uparrow \\
\overline{\overline{U(t)}} \\
\uparrow \\
\overline{\overline{V(t)}} \\
\dots
\end{array}$$

$$\begin{array}{c}
C(t) \\
\uparrow \\
\overline{P(t)} \\
\uparrow \\
\overline{S_1(t)} \\
\uparrow \\
\overbrace{R(t)} \\
\uparrow \\
\overline{\overline{G(t)}} \text{ FZprt}(t) + \overline{\overline{G(t)}} \text{ FZprt}(t) = \\
\uparrow \\
\overbrace{\overline{O(t)}} \\
\uparrow \\
\overline{\overline{U(t)}} \\
\uparrow \\
\overline{\overline{V(t)}} \\
\dots
\end{array}$$

$$\begin{array}{c}
C(t) \\
\uparrow \\
\overline{P(t)} \\
\uparrow \\
\overline{\overline{S(t)}} \\
\uparrow \\
\overbrace{R(t)} \\
\uparrow \\
\overline{\overline{G(t)}} \text{ FZprt}(t) \text{ (A.2.4.18.3)}, \\
\uparrow \\
\overbrace{\overline{O_1(t)} \cup \overline{O_2(t)}} \\
\uparrow \\
\overline{\overline{U(t)}} \\
\uparrow \\
\overline{\overline{V(t)}} \\
\dots
\end{array}$$

$$\begin{array}{c}
C(t) \\
\uparrow \\
\overline{P(t)} \\
\uparrow \\
\overline{\overline{S_1(t)} \cup \overline{\overline{S_2(t)}}} \\
\uparrow \\
\overbrace{R(t)} \\
\uparrow \\
\overline{\overline{G(t)}} \text{ FZprt}(t) \text{ (A. 2.4.18.3.1)}, \\
\uparrow \\
\overbrace{\overline{O(t)}} \\
\uparrow \\
\overline{\overline{U(t)}} \\
\uparrow \\
\overline{\overline{V(t)}} \\
\dots
\end{array}$$

$$\begin{array}{ccc}
\begin{array}{c}
C(t) \\
\uparrow \\
\overline{P(t)} \\
\uparrow \\
\overline{S(t)} \\
\uparrow \\
\overline{R(t)} \\
\uparrow \\
\overline{\overline{G(t)}} \\
\uparrow \\
\overline{\overline{O(t)}} \\
\uparrow \\
\overline{\overline{U_1(t)}} \\
\uparrow \\
\overline{\overline{V(t)}} \\
\vdots
\end{array}
&
\begin{array}{c}
C(t) \\
\uparrow \\
\overline{P(t)} \\
\uparrow \\
\overline{S(t)} \\
\uparrow \\
\overline{R(t)} \\
\uparrow \\
\overline{\overline{G(t)}} \\
\uparrow \\
\overline{\overline{O(t)}} \\
\uparrow \\
\overline{\overline{U_2(t)}} \\
\uparrow \\
\overline{\overline{V(t)}} \\
\vdots
\end{array}
&
\begin{array}{c}
C(t) \\
\uparrow \\
\overline{P(t)} \\
\uparrow \\
\overline{S(t)} \\
\uparrow \\
\overline{R(t)} \\
\uparrow \\
\overline{\overline{G(t)}} \\
\uparrow \\
\overline{\overline{O(t)}} \\
\uparrow \\
\overline{\overline{U_1(t)} \cup \overline{\overline{U_2(t)}}} \\
\uparrow \\
\overline{\overline{V(t)}} \\
\vdots
\end{array}
\end{array}
\begin{array}{l}
\text{FZprt}(t) + \text{FZprt}(t) = \\
\text{FZprt}(t) = \\
\text{FZprt}(t) \text{ (A. 2.4.18.3.2),}
\end{array}$$

$$\begin{array}{ccc}
\begin{array}{c}
C(t) \\
\uparrow \\
\overline{P(t)} \\
\uparrow \\
\overline{S(t)} \\
\uparrow \\
\overline{R(t)} \\
\uparrow \\
\overline{\overline{G(t)}} \\
\uparrow \\
\overline{\overline{O(t)}} \\
\uparrow \\
\overline{\overline{U(t)}} \\
\uparrow \\
\overline{\overline{V_1(t)}} \\
\vdots
\end{array}
&
\begin{array}{c}
C(t) \\
\uparrow \\
\overline{P(t)} \\
\uparrow \\
\overline{S(t)} \\
\uparrow \\
\overline{R(t)} \\
\uparrow \\
\overline{\overline{G(t)}} \\
\uparrow \\
\overline{\overline{O(t)}} \\
\uparrow \\
\overline{\overline{U(t)}} \\
\uparrow \\
\overline{\overline{V_2(t)}} \\
\vdots
\end{array}
&
\begin{array}{c}
C(t) \\
\uparrow \\
\overline{P(t)} \\
\uparrow \\
\overline{S(t)} \\
\uparrow \\
\overline{R(t)} \\
\uparrow \\
\overline{\overline{G(t)}} \\
\uparrow \\
\overline{\overline{O(t)}} \\
\uparrow \\
\overline{\overline{U(t)}} \\
\uparrow \\
\overline{\overline{V_1(t)} \cup \overline{\overline{V_2(t)}}} \\
\vdots
\end{array}
\end{array}
\begin{array}{l}
\text{FZprt}(t) + \text{FZprt}(t) = \\
\text{FZprt}(t) = \\
\text{FZprt}(t) \text{ (A. 2.4.18.3.3).}
\end{array}$$

We consider the following self-type dynamic tprFZ-structures:

$$\begin{array}{c}
 Q(t) \\
 \uparrow \\
 \overline{Q(t)} \\
 \uparrow \\
 \overline{\overline{Q(t)}} \\
 \uparrow \\
 \overbrace{R(t)} \\
 \uparrow \\
 \overline{\overline{\overline{R(t)}}} \\
 \overline{\overline{\overline{R(t)}}} \text{ FZprt}(t)(A.2.4.19) \\
 \uparrow \\
 \overbrace{\overbrace{R(t)}} \\
 \uparrow \\
 \overline{\overbrace{\overbrace{R(t)}}} \\
 \uparrow \\
 \overline{\overline{\overbrace{\overbrace{R(t)}}}} \\
 \dots
 \end{array}$$

$$\begin{array}{c}
 \dots \\
 strD(t) \\
 \uparrow \\
 \overline{R(t)} \\
 \uparrow \\
 \overline{\overline{R(t)}} \\
 \uparrow \\
 \overbrace{R(t)} \\
 \uparrow \\
 \overline{\overline{\overline{R(t)}}} \\
 \overline{\overline{\overline{R(t)}}} \text{ FZprt}(t) (A.2.4.19.1), \\
 \uparrow \\
 \overbrace{\overbrace{R(t)}} \\
 \uparrow \\
 \overline{\overbrace{\overbrace{R(t)}}} \\
 \uparrow \\
 \overline{\overline{\overbrace{\overbrace{R(t)}}}} \\
 \dots
 \end{array}$$

denote $FZ_{15}(t)fd(t); R(t); D(t), d(t) \subset D(t)$,

$$\begin{array}{c}
d(t) \\
\uparrow \\
\overline{R(t)} \\
\uparrow \\
\overline{\overline{R(t)}} \\
\uparrow \\
\overbrace{D(t)} \\
\uparrow \\
\overline{\overline{\overline{D(t)}}} \text{ FZprt}(t) \text{ (A.2.4.20)} \\
\uparrow \\
\overbrace{\overbrace{D(t)}} \\
\uparrow \\
\overline{\overbrace{\overbrace{D(t)}}} \\
\uparrow \\
\overline{\overline{\overbrace{\overbrace{D(t)}}}} \\
\uparrow \\
\overline{\overline{\overline{\overbrace{\overbrace{D(t)}}}}} \\
\vdots
\end{array}$$

denote $FZ_{16}(t) f D(t); R(t); d(t), d(t) \subset D(t)$,

$$\begin{array}{c}
P(t) \\
\uparrow \\
\overline{P(t)} \\
\uparrow \\
\overline{\overline{P(t)}} \\
\uparrow \\
\overbrace{R(t)} \\
\uparrow \\
\overline{\overline{\overline{R(t)}}} \text{ FZprt}(t) \text{ (A.2.4.21)} \\
\uparrow \\
\overbrace{\overbrace{R(t)}} \\
\uparrow \\
\overline{\overbrace{\overbrace{R(t)}}} \\
\uparrow \\
\overline{\overline{\overbrace{\overbrace{R(t)}}}} \\
\uparrow \\
\overline{\overline{\overline{\overbrace{\overbrace{R(t)}}}}} \\
\vdots
\end{array}$$

and any other possible options of self for (A.2.4.10) etc.

New mathematical structures and operators is carried out with generalization it to any structures with any actions. For example,

$$1) \begin{matrix} f_{11} & \dots & f_{1k} & & q_{11} & \dots & q_{1n} \\ \dots & \dots & \dots & & \dots & \dots & \dots \\ (q_{j1})^{-1} & \dots & (q_{jk})^{-1} & \text{FZpzt} & \dots & \dots & \dots \\ \dots & \dots & \dots & & q_{m1} & \dots & q_{mn} \\ f_{l1} & \dots & f_{lk} & & & & \end{matrix} \quad (*_{A.2.4.}),$$

f_{ij}, q_{ij} – any fuzzy objects, fuzzy actions etc.

$$2) \begin{matrix} & g_{12} & & w_{11} & w_{12} & & w_{1n} \\ g_{11} & g_{22} & g_{13} & \dots & \dots & & w_{2n} \\ (w_{j1})^{-1} & (w_{j2})^{-1} & (w_{j3})^{-1} & \text{FFZGpzt} & & & \dots \\ g_{31} & \dots & & & w_{m1} & w_{m2} & \dots \\ & g_{k2} & & & & & w_{sn} \\ & & & & & & w_{ml} \end{matrix} \quad (*_{A.2.4.1}),$$

w_{ij}, g_{ij} – any fuzzy objects, fuzzy actions etc.

3)

$$\begin{matrix} a & b & g \\ c & \text{AfZrq}(\mu) & w \\ d & q & r \end{matrix} \quad (*_{A.2.4.2}),$$

where AfZrq is fuzzy virtual structure or fuzzy virtual operator, which can take any form of fuzzy action; $a, c, d, q, r, w, g, b, \mu$ – any fuzzy objects, fuzzy actions etc.

Accordingly, we can consider all sorts of self-type fuzzy structures for 1) – 3). And any other possible fuzzy structures and fuzzy operators etc.

5. Elements of the Theory of Variables of Fuzzy Hierarchical Fuzzy Dynamic Operators: FZpzt

In contrast to the classical one-attribute fuzzy set theory, where only its contents are taken as a set, we consider a two-attribute fuzzy set theory with a fuzzy set as a fuzzy capacity and separately with its contents. We simply use a convenient form to represent the singularity of a fuzzy set. Articles [1]-[12] use the following methodology for permanent structures:

1. Cancellation of the axiom of regularity.
2. 2 attributes for the fuzzy set: fuzzy capacity and its content.
3. Fuzzy compression of a fuzzy set, for example, to a point.
4. “turning out” from one another, particularly from a fuzzy capacity, we pull out another fuzzy capacity, for example, itself, as its element.
5. The simultaneity of one (fuzzy compression) and the other (“eversion”).
6. Own fuzzy capacities.
7. Qualitatively new fuzzy programming and fuzzy Networks.

Here we will consider variable fuzzy structures (models), both discrete and continuous: a) with variable connections, b) with the variable backbone for links, c) generalized version; in particular, in variable fuzzy structures (models), for example,

$$\begin{array}{c}
C \\
\uparrow \\
\bar{P} \\
\uparrow \\
\bar{S} \\
\uparrow \\
\tilde{R} \\
\uparrow \\
\equiv \\
G \\
\uparrow \\
\tilde{O} \\
\uparrow \\
\tilde{U} \\
\uparrow \\
\equiv \\
\tilde{V} \\
\vdots
\end{array}
\text{FZprt}(t)
=
\left\{
\begin{array}{l}
\begin{array}{c}
C \\
\uparrow \\
\bar{P} \\
\uparrow \\
\bar{S} \\
\uparrow \\
\tilde{R} \\
\uparrow \\
\equiv \\
G \\
\uparrow \\
\tilde{O} \\
\uparrow \\
\tilde{U} \\
\uparrow \\
\equiv \\
\tilde{V} \\
\vdots
\end{array} \\
\begin{array}{c}
\vdots \\
\tilde{W} \\
\uparrow \\
\tilde{J} \\
\uparrow \\
\tilde{H} \\
\uparrow \\
\equiv \\
F \\
\uparrow \\
\tilde{A} \\
\uparrow \\
\equiv \\
D \\
\uparrow \\
\bar{Q} \\
\uparrow \\
B
\end{array} \\
\begin{array}{c}
\begin{array}{c}
C \\
\uparrow \\
\bar{P} \\
\uparrow \\
\bar{S} \\
\uparrow \\
\tilde{R} \\
\uparrow \\
\equiv \\
G \\
\uparrow \\
\tilde{O} \\
\uparrow \\
\tilde{U} \\
\uparrow \\
\equiv \\
\tilde{V} \\
\vdots
\end{array} \\
\begin{array}{c}
B \\
\uparrow \\
D \\
\uparrow \\
C \\
\uparrow \\
\bar{P} \\
\uparrow \\
\bar{S} \\
\uparrow \\
\tilde{R} \\
\uparrow \\
\equiv \\
G \\
\uparrow \\
\tilde{O} \\
\uparrow \\
\tilde{U} \\
\uparrow \\
\equiv \\
\tilde{V} \\
\vdots
\end{array} \\
\begin{array}{c}
A \\
\uparrow \\
B \\
\uparrow \\
\vdots \\
\tilde{W} \\
\uparrow \\
\tilde{J} \\
\uparrow \\
\tilde{H} \\
\uparrow \\
\equiv \\
F \\
\uparrow \\
\tilde{A} \\
\uparrow \\
\equiv \\
D \\
\uparrow \\
\bar{Q} \\
\uparrow \\
B \\
\uparrow \\
\vdots \\
\tilde{W} \\
\uparrow \\
\tilde{J} \\
\uparrow \\
\tilde{H} \\
\uparrow \\
\vdots
\end{array}
\end{array}
\right.
\begin{array}{l}
(\mu_7 \text{ffS}^1 \text{prt} \mu_6, q_2 \geq t \geq q_1) | \mu_1 \\
(\mu_7 \text{ffS}^1 \text{prt} \mu_6, q_3 \geq t > q_2) | \mu_2 \\
(\mu_7 \text{ffS}^1 \text{prt} \mu_6, q_4 \geq t > q_3) | \mu_3
\end{array}
\end{array}
\quad (*_{A.#.1}),$$

μ_i - measures of fuzziness, $i = 1, \dots, 5$. In particular, μ_7 ffS¹prt μ_6 can be interpreted as a fuzzy game:

B	A
D	B

player 1 fuzzy with measures of fuzziness μ_6 fits fuzzy A into fuzzy B, and the other fuzzy with measures of fuzziness μ_7 pushes fuzzy D out of fuzzy B at the same time.

In what follows, we will denote variable fuzzy structure (model) through VWFZ(t), qself-variable fuzzy structures (models) through FZqFVZS(t), qself is self for *action* Q, and oqself-variable fuzzy structures (models) through OqVFZ(t), qoself is oself for *action* Q. Singular fuzzy structures (models) are not confused with fuzzy structures (models) with singularities.

μ_7 ffS¹prt μ_6 -2-hierarchical fuzzy structure: 1-level - elements A, B, C, D; level 2 - connections

between them. 2-

Examples: a) discrete variable fuzzy structure with μ_i - measures of fuzziness, $i = 1, \dots, 8$.

$a \mu_1$	$b \mu_8$	$g \mu_7$
$c \mu_2$	$VZFZ(t)$	$w \mu_6$
$d \mu_3$	$q \mu_4$	$r \mu_5$

Fig.A.3.1

c) continuous variable fuzzy structure

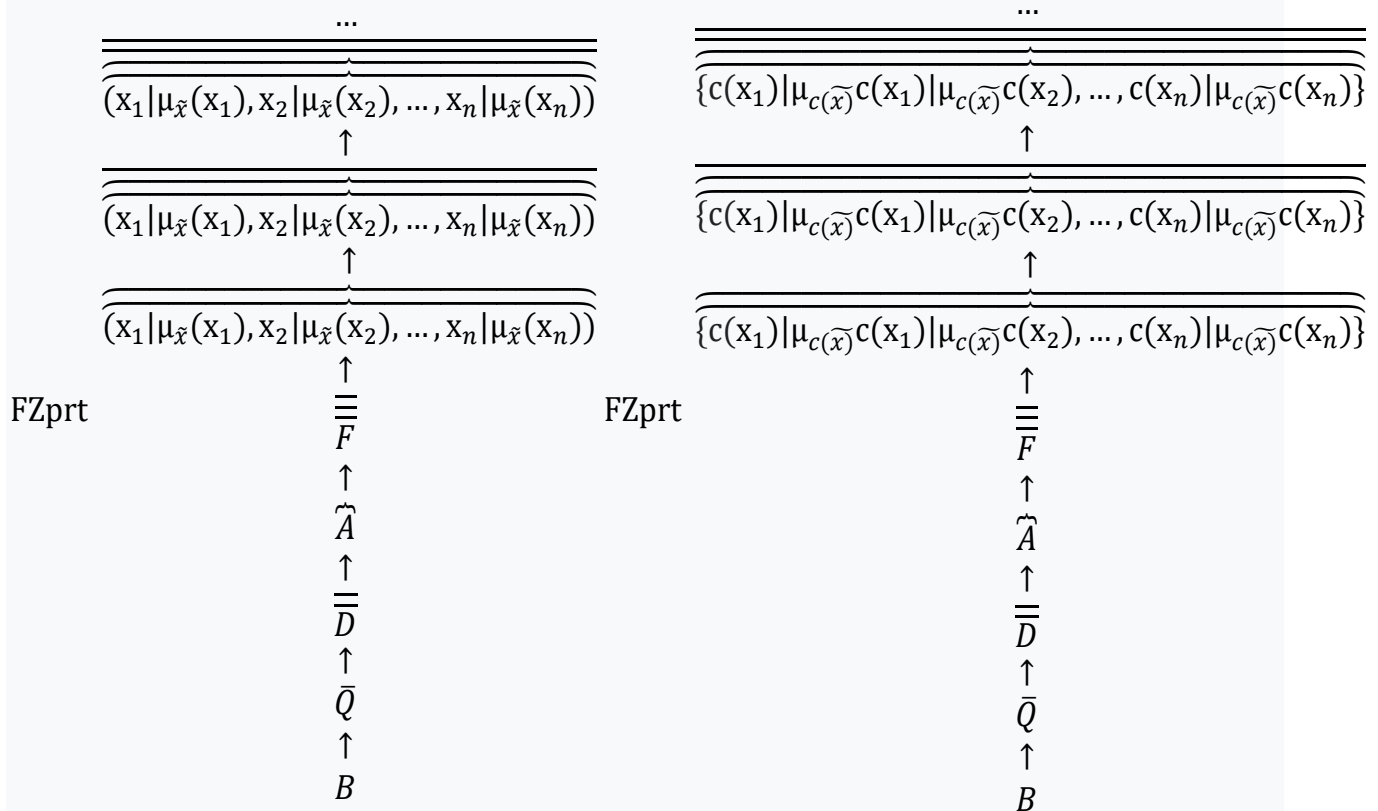
VZFZ(t)



Figure: Where a continuous fuzzy set represents the rim of the Fig.A.3.2.

We introduce the notation m_{fVLS_N} – the number of elements, N - the number of connections between them in the discrete variable 2-hierarchical fuzzy structure VFZ(t). We introduce the notation q_{fVLS_R} – any, R - connections in q_{fVLS_R} in the variable 2-hierarchical fuzzy structure VZFZ(t), in particular, q_{fVLS_R} , R can be fuzzy sets both discrete and continuous and discrete-continuous. We consider the functional $c(Q)$, which gives a numerical value for the fuzzy structurability of Q from the interval [0,1], where 0 corresponds to "no fuzzy structure", and 1 corresponds to the value "fuzzy structure". Then for joint A, B: $c(A+B)=c(A)+c(B)-c(A*B)+cS(D)$, D- self-(fuzzy structure) from A*B, $cS(x)$ - the value of self-(fuzzy structure) for self-(fuzzy structure) x; for dependent fuzzy structures: $c(A*B)=ca(A)*c(B/A)=c(B)*c(A/B)$, where $c(B/A)$ - conditional fuzzy structurability of the fuzzy structure B at the fuzzy structure A,

$c(A/B)$ - conditional fuzzy structure of the fuzzy structure A at the fuzzy structure B. Adding inconsistent fuzzy structures: $c(A+B) = c(A) + c(B)$. The formula of complete fuzzy structure: $c(A) = \sum_{k=1}^n c(B_k) * c(A/B_k)$, B_1, B_2, \dots, B_n -full group of fuzzy hypotheses- actions: $\sum_{k=1}^n c(B_k) = 1$ ("fuzzy structure"). Fuzzy Zprt- structure for fuzzy set of fuzzy structures $\tilde{x} = (x_1 | \mu_{\tilde{x}}(x_1), x_2 | \mu_{\tilde{x}}(x_2), \dots, x_n | \mu_{\tilde{x}}(x_n))$:



- fuzzy Zprt- structurability for these fuzzy structures. It is possible to consider the self-(fuzzy structure) $FZ_8 f \tilde{x}_w; Q; \tilde{x}, \tilde{x}_w \subset \tilde{x}$. The same for self-(fuzzy structurability): $FW_8 f C_w(\tilde{x}); Q; \widetilde{C}(\tilde{x})$, where $\widetilde{C}(\tilde{x}) = \{c(x_1) | \mu_{c(\tilde{x})} c(x_1), c(x_2) | \mu_{c(\tilde{x})} c(x_2), \dots, c(x_n) | \mu_{c(\tilde{x})} c(x_n)\}$, $C_w(\tilde{x}) \subset \widetilde{C}(\tilde{x})$.

Can be considered N-hierarchical fuzzy structure: 1-level - elements; level 2 - connections between them, level 3 - relationships between elements of level 2, etc. up to level N+1. N-hierarchical fuzzy structure: 1-level - A; 2-level -B, 3-level - C, etc. up to (N+!)- level, where A, B, C, ... can be any in particular, by fuzzy actions, fuzzy sets, and others.

Can be considered discrete fuzzy hierarchical fuzzy structure, continuous fuzzy hierarchical fuzzy structure, and discrete-continuous hierarchical fuzzy structure.

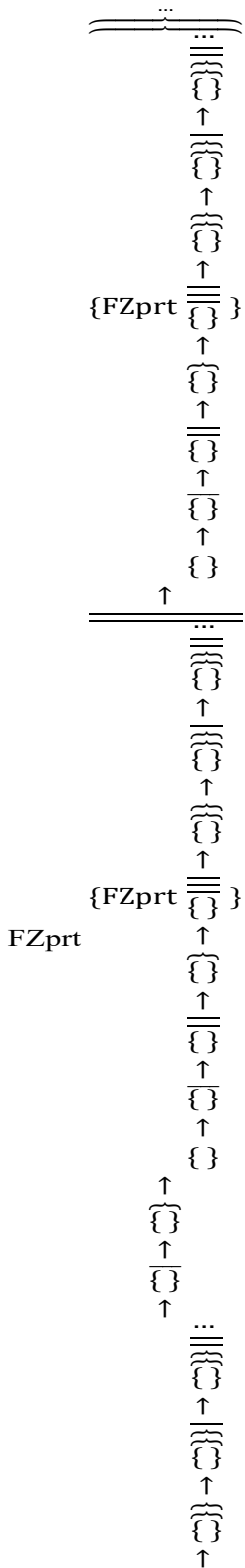
The example

structure compression into fuzzy B, μ_i - measures of fuzziness, $i = 1, \dots, N$.

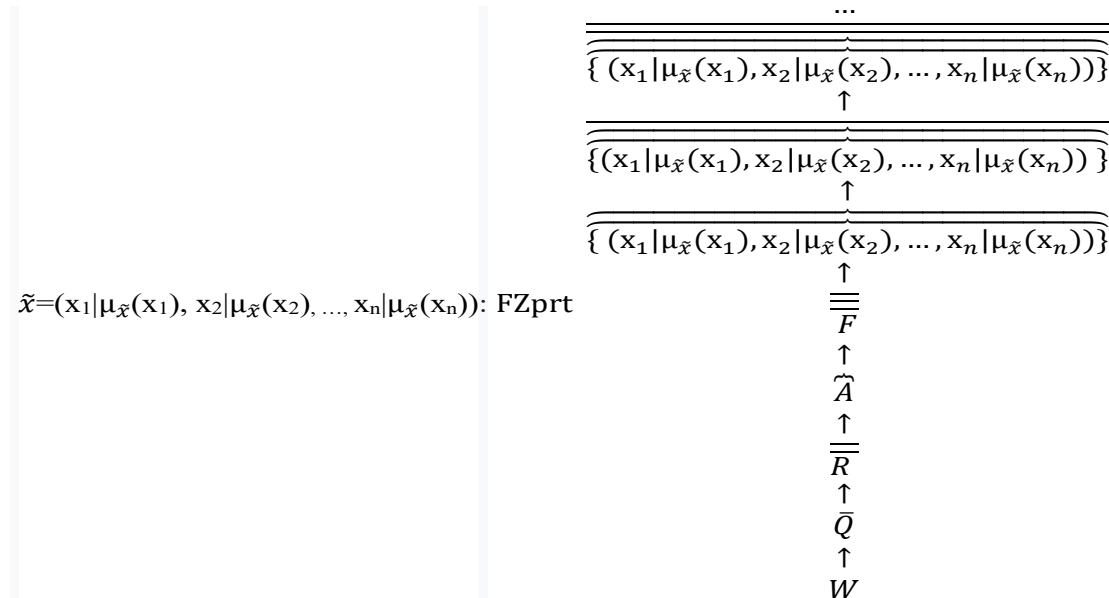
Let $fzg(N, QHFZ) = QHFZ \left. \begin{matrix} QHFZ \\ QHFZ \\ \dots \\ QHFZ \end{matrix} \right\} \text{-N levels}$

It can be considered self- QHFZ, $fzg(y, QHFZ)$ for any y , $fzg(QHFZ, QHFZ)$.

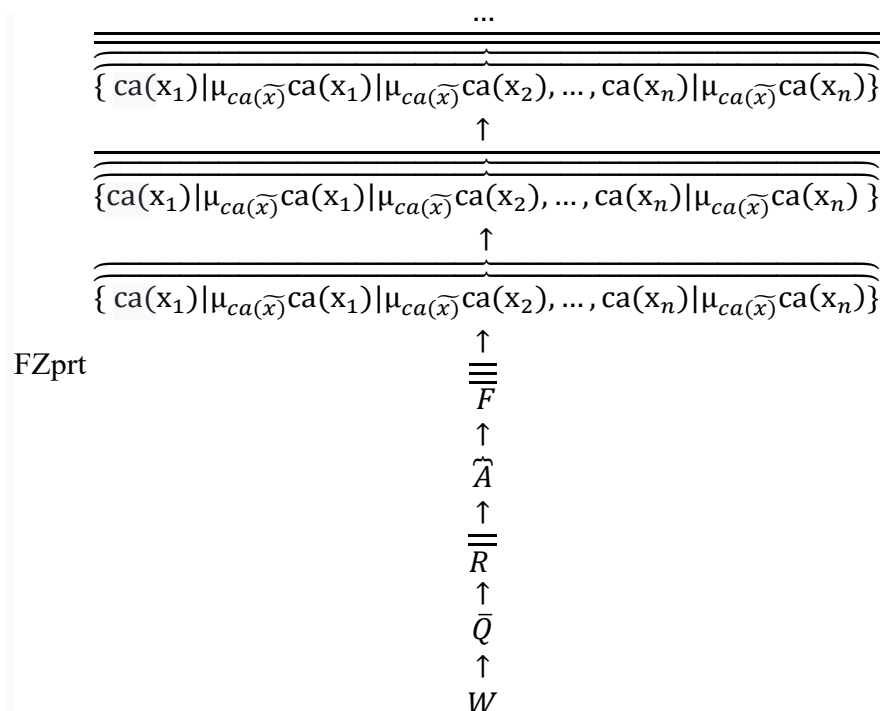
Compression fuzzy Hierarchy Examples:



We consider the functional $ca(Q)$, which gives a numerical value for the accommodation of fuzzy Q from the interval $[0,1]$, where 0 corresponds to "fuzzy action" and one corresponds to the value "fuzzy result of action". Then for joint fuzzy A, B : $ca(A+B)=ca(A)+ca(B)-ca(A*B)+caS(D)$, D -self-(fuzzy action) for $A*B$, $caS(x)$ - the value of self-(fuzzy result of action) for self-(fuzzy action) of x ; for dependent fuzzy actions: $ca(A*B)=ca(A)*ca(B/A)=ca(B)*ca(A/B)$, where $ca(B/A)$ -conditional accommodation of the fuzzy action B at the fuzzy action A , $ca(A/B)$ - conditional fuzzy result of action of the fuzzy action A at the fuzzy action B . Adding the fuzzy capacity values of inconsistent fuzzy action s : $ca(A+B)=ca(A)+ca(B)$. The formula of complete fuzzy result of action: $ca(A)=\sum_{k=1}^n ca(B_k) * ca(A/B_k)$, B_1, B_2, \dots, B_n -full group of fuzzy hypotheses- actions: $\sum_{k=1}^n ca(B_k)=1$ ("fuzzy result of action"). FZprt-(fuzzy action) for



\tilde{x} - fuzzy set of fuzzy actions.

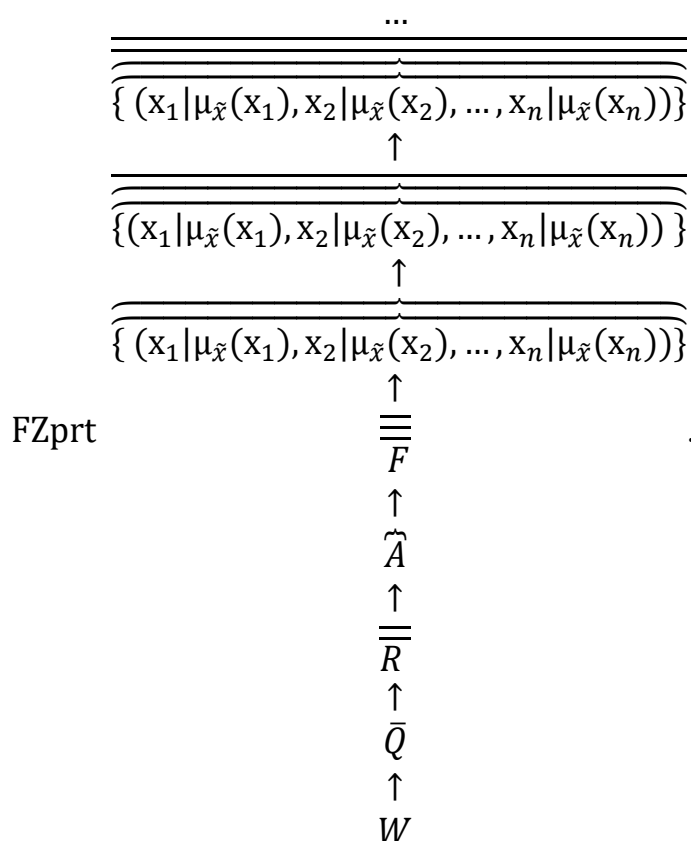


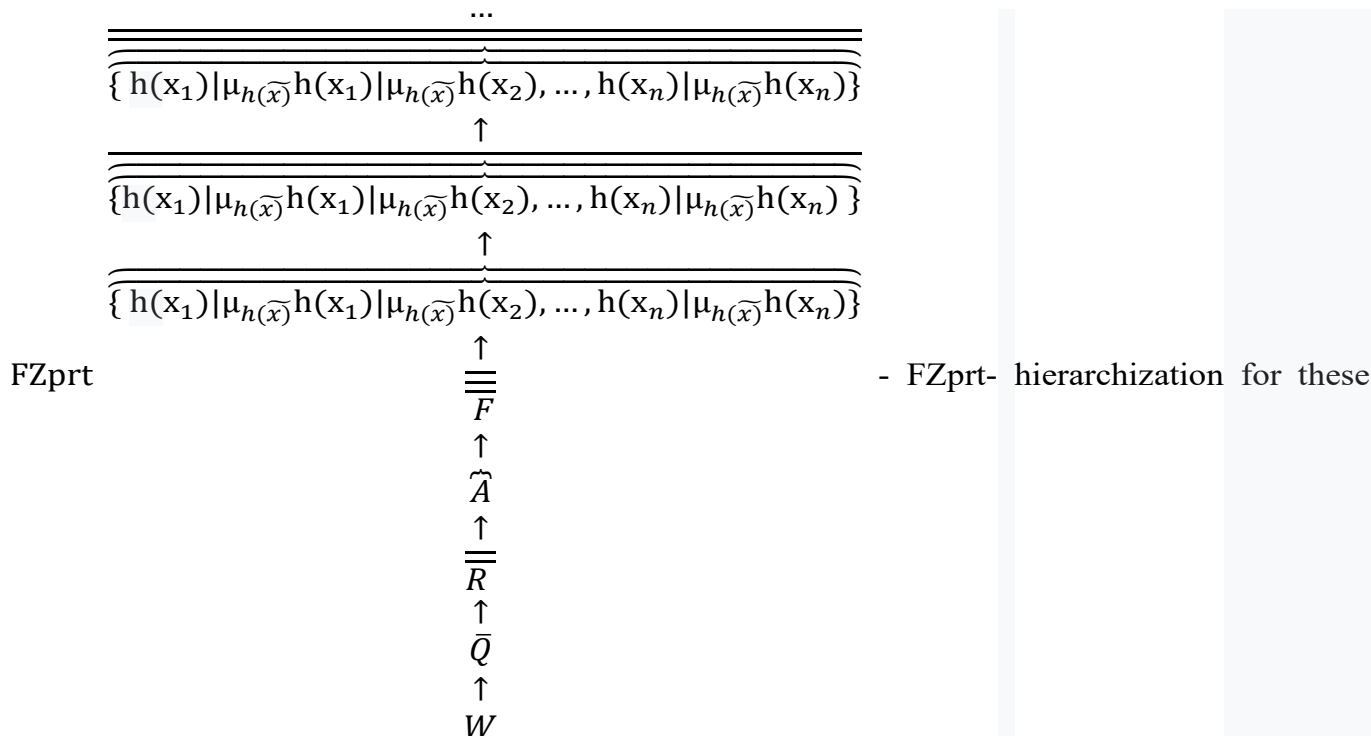
- FZprt- accommodation for these fuzzy actions $x_i, i = 1, \dots, n$. It is possible to consider the self-(fuzzy action) $FZ_8f\tilde{x}_z; Q; \tilde{x}$, $\tilde{x}_z \subset \tilde{x}$. The same for self-(fuzzy accommodation): $FZfCa_z(\tilde{x}); Q; \widetilde{Ca}(x)$, where $Ca_z(\tilde{x}) = \{ca(x_1)|\mu_{ca(\tilde{x})}ca(x_1), ca(x_2)|\mu_{ca(\tilde{x})}ca(x_2), \dots, ca(x_n)|\mu_{ca(\tilde{x})}ca(x_n)\} \subset \widetilde{Ca}(x)$.

Consider a variable fuzzy hierarchy (we will denote it by fIVH).

We consider the functional $h(Q)$, which gives a numerical value for the hierarchization of fuzzy Q from the interval $[0,1]$, where 0 corresponds to "no fuzzy hierarchy," and 1 corresponds to the value "fuzzy hierarchy." Then for joint fuzzy hierarchies A, B : $h(A+B)=h(A)+h(B)-h(A*B)+hS(D)$, D - self-(fuzzy hierarchy) from $A*B$, $hS(x)$ - the value of self-(fuzzy hierarchy) for self-(fuzzy hierarchy) x ; for dependent fuzzy hierarchies: $h(A*B)=ha(A)*h(B/A)=h(B)*h(A/B)$, where $h(B/A)$ - conditional hierarchization of the fuzzy hierarchy B at the fuzzy hierarchy A , $h(A/B)$ - conditional fuzzy hierarchy of the fuzzy hierarchy A at the fuzzy hierarchy B . Adding the fuzzy hierarchy values of inconsistent fuzzy hierarchies: $h(A+B)=h(A)+h(B)$. The formula of complete fuzzy hierarchy: $h(A)=\sum_{k=1}^n h(B_k) * h(A/B_k)$, B_1, B_2, \dots, B_n -full group of fuzzy hypotheses- hierarches: $\sum_{k=1}^n h(B_k)=1$ ("fuzzy hierarchy").

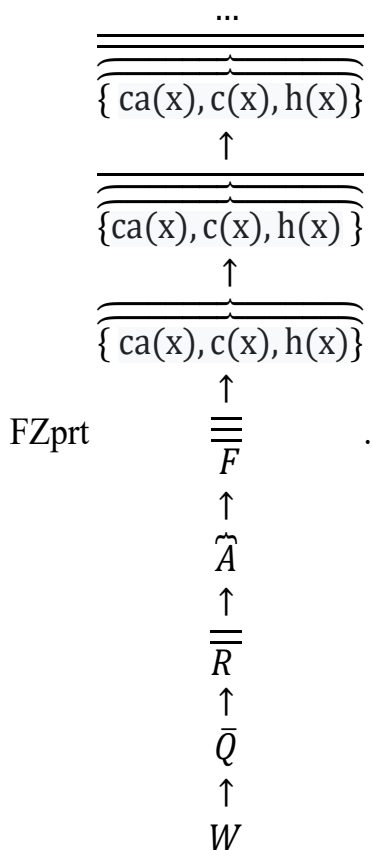
FZprt- structure for fuzzy set of hierarches $\tilde{x}=(x_1|\mu_{\tilde{x}}(x_1), x_2|\mu_{\tilde{x}}(x_2), \dots, x_n|\mu_{\tilde{x}}(x_n))$:



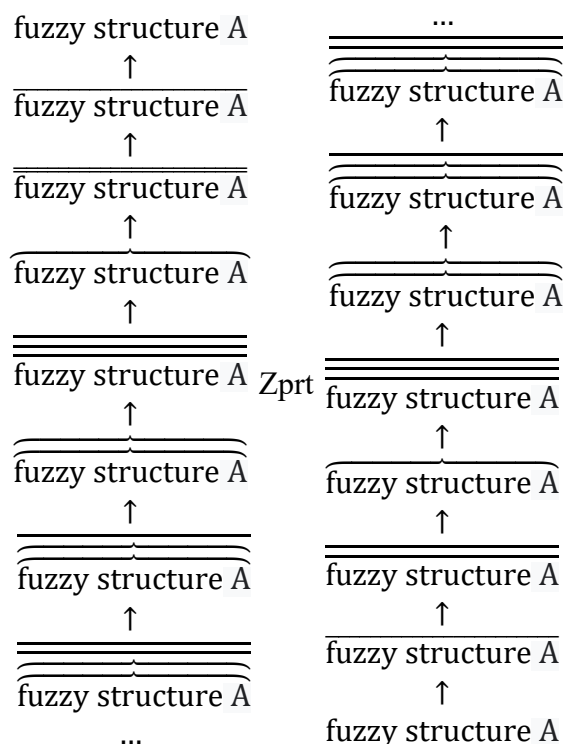


fuzzy hierarches. It is possible to consider the self-(fuzzy hierarchy) $FZ_8 f \tilde{x}_z; Q; \tilde{x}$, $\tilde{x}_z \subset \tilde{x}$. The same for self- hierarchization $FZ_8 f \tilde{h}x_z; Q; \tilde{h}x$, $\tilde{h}x_z \subset \tilde{h}x$, $\tilde{h}x =$

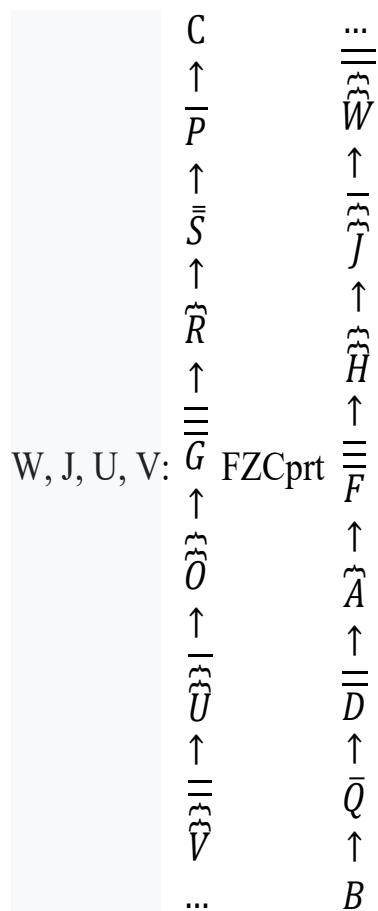
$\{ h(x_1) | \mu_{h(\tilde{x})} h(x_1), h(x_2) | \mu_{h(\tilde{x})} h(x_2), \dots, h(x_n) | \mu_{h(\tilde{x})} h(x_n) \}$. Can be considered



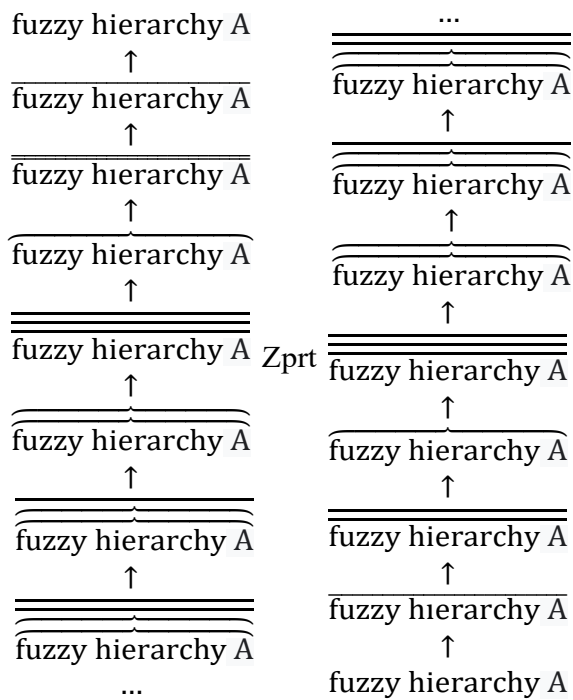
Very interesting next fuzzy structure type:



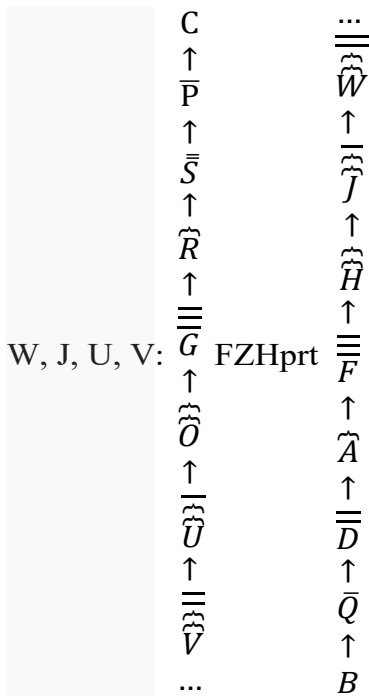
You can enter special operator FZCprt to work with fuzzy structures H, F, A, Q, B, O, G, R, P, C,



Very interesting next fuzzy hierarchy type:



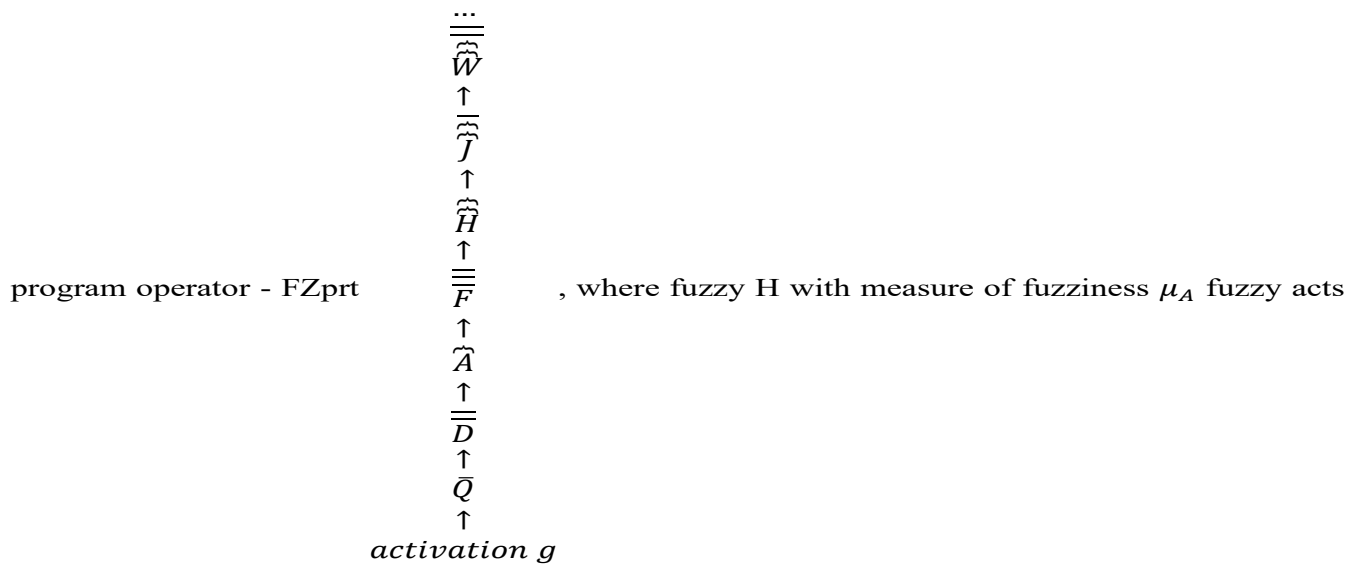
You can enter special operator FZHprt to work with fuzzy hierarches H, F, A, Q, B, O, G, R, P, C,



6. Introduction to Fuzzy Program Operators FZprt, tprFZ, FZ¹epr, FZeprt₁

Here it is supposed to use a symbiosis of parallel actions and conventional calculations through sequential actions. This must be done through FZprt-Networks - fuzzy analogue of Sit-Networks [1,6,12] in one of the central departments of which a conventional computer system is located. The parallel processor is itself fwdeprogram - fuzzy analogue of eprogram [1,6,12] with direct parallel computing not through serial computing.

Using conventional coding by a computer system, through a Target-block with a fuzzy Zprt -



Q with measure of fuzziness μ_Q to fuzzy *activation* with measure of fuzziness $\mu_{activation}$, Q is any fuzzy *action*, it will be possible to obtain the fuzzy execution with measure of fuzziness $\mu_{activation}$ of a parallel fuzzy action H with the desired target weight g or the execution with measure of fuzziness $\mu_{activation}$ of a parallel action A with the desired fuzzy target weight g with measure of fuzziness μ_g or both. Each code for a neural network from a conventional computer we "bind" (match) to the corresponding value of current (or voltage). For FZprt-coding and FZprt-translation may be use alternating current of ultrahigh frequency or high-intensity ultra-short optical pulses laser of Nobel laureates 2018 year Gerard Mourou, Donna Strickland, or a combination of them. For the desired action, for example, using the direct parallel fwdprogram of

operator fDprt $\{UHF AC := R\}$ *action Q* with the specified measures of fuzziness, we simultaneously enter *activation*

the desired fuzzy set of codes R with measure of fuzziness μ_R using a microwave current with minimal amplitude and maximum frequency or high-intensity ultra-short optical pulses laser in Target-block.

In a conventional computer, the process of sequential calculation takes a certain time interval, in a directly parallel calculation by a neural network, the calculation is instantaneous, but it occupies a certain region of the space of calculation objects.

Consider the types of direct parallel fuzzy fzdprogram operators:

- 1) fuzzy Zprt-program operators (designation FZprt-program operators)
- 2) fuzzy tprZ-program operators (designation tprFZ-program operators)
- 3) fuzzy Z¹epr - program operators (designation FZ¹epr -program operators)
- 4) fuzzy Zeprt₁- program operators (designation FZeprt₁-program operators)

Examples:

$$\begin{array}{c}
 \dots \\
 \overline{\overline{\overline{W}}} \\
 \uparrow \\
 \overline{\overline{\overline{J}}} \\
 \uparrow \\
 \overline{\overline{\overline{H}}} \\
 \uparrow \\
 \overline{\overline{\overline{F}}} \\
 \uparrow \\
 \overline{\overline{\overline{A}}} \\
 \uparrow \\
 \overline{\overline{\overline{D}}} \\
 \uparrow
 \end{array}$$

1) FZprt ,

$$\begin{array}{c}
 \text{then } \overline{Q} \\
 \uparrow \\
 IF\{\{B\}\{f\}\}
 \end{array}$$

$$\begin{array}{c}
 C \\
 \uparrow \\
 \overline{P} \\
 \uparrow \\
 \overline{S} \\
 \uparrow \\
 \overline{R} \\
 \uparrow \\
 \overline{G} \\
 \uparrow \\
 \overline{O} \\
 \uparrow \\
 \overline{U} \\
 \uparrow \\
 \overline{V} \\
 \dots
 \end{array}$$

FZprt

$$\begin{array}{c}
 \dots \\
 \overline{\overline{\overline{W}}} \\
 \uparrow \\
 \overline{\overline{\overline{J}}} \\
 \uparrow \\
 \overline{\overline{\overline{H}}} \\
 \uparrow \\
 \overline{\overline{\overline{F}}} \\
 \uparrow \\
 \overline{\overline{\overline{A}}} \\
 \uparrow \\
 \overline{\overline{\overline{D}}} \\
 \uparrow \\
 \text{then } \overline{Q} : \equiv \\
 \uparrow \\
 IF\{\{B\}\{f\}\}
 \end{array}$$

2)

$$\begin{array}{c}
 C \\
 \uparrow \\
 \overline{P} \\
 \uparrow \\
 \overline{S} \\
 \uparrow \\
 \overline{R} \\
 \uparrow \\
 \overline{G} \\
 \uparrow \\
 \overline{O} \\
 \uparrow \\
 \overline{U} \\
 \uparrow \\
 \overline{V} \\
 \dots
 \end{array}$$

FZprt

$$\begin{array}{c}
 \dots \\
 \overline{\overline{\overline{W}}} \\
 \uparrow \\
 \overline{\overline{\overline{J}}} \\
 \uparrow \\
 \overline{\overline{\overline{H}}} \\
 \uparrow \\
 \overline{\overline{\overline{F}}} \\
 \uparrow \\
 \overline{\overline{\overline{A}}} \\
 \uparrow \\
 \overline{\overline{\overline{D}}} \\
 \uparrow \\
 \overline{Q} : \equiv \\
 \uparrow \\
 B :=
 \end{array}$$

3)

7. Paradoxical Singularities (Singularities of Disintegration & Synthesis)

The simplest type of paradoxical singularity is ${}^B_A Sprt^A$, then: $paself^A = {}^A Sprt^A$,

$(action\ Q)^{-1}Dprt$ $\begin{matrix} B \\ A \end{matrix}$ $action\ Q$ $\begin{matrix} A \\ B \end{matrix}$ (where Q is any action), $(action\ Q)^{-1}Dprt$ $\begin{matrix} A \\ A \end{matrix}$ $action\ Q$ $\begin{matrix} A \\ A \end{matrix}$,

$SIprt$ $\begin{matrix} B \\ A \end{matrix}$ $Subject\ of\ |||$ $\begin{matrix} A \\ A \end{matrix}$, $SIprt$ $\begin{matrix} A \\ A \end{matrix}$ $Subject\ of\ |||$ $\begin{matrix} A \\ A \end{matrix}$, $pa||| = |||(|||)|||^{-1}$, piS

$self$
 \wedge
 $= (paself) - (|||)$, $self\ |||\ paself$ for any C for any A, where A can be by self, |||, paself etc; $pi1S$

\wedge
 $(pa|||)$
 $paself$
 \wedge
 $= (paself) - (pa|||)$,
 \wedge
 $(pa|||)$

$\frac{(the\ set\ of\ all\ sets)}{||\ the\ set\ of\ all\ sets\ ||}$ ||| (an element that is not included in any capacity (set)) etc. May consider $pf(n, paself) = pa^n self^A = pa(pa(\dots(paself^A)\dots))$, $pf(\alpha, paself)$, $pf(\infty, paself)$ $pf(paself, paself)$ etc and rows by $pa^n self^A$.

Let us introduce a measure of singularity μ_{si} , which sets the maximum level of singularity as 2, and the minimum, i.e., regularity, as 0. Then, in particular, for binary relations: $\mu_{si} = 3/2$ for $A|||A^{-1}$

$^1, Sprt_x^{A, A^{-1}}$ (x - point) or for $A|||(-A)$, $Sprt_x^{A, -A}$, $\mu_{si} = 1$ for $A|||B$, $Sprt_x^{A, B}$ (x - point), $\mu_{si} = 2/3$

Q
for $Drt\ Q$, $\mu_{si} = 1/2$ for $A|||A$, $Sprt_A^A$. Paself can have protected "holes" for inputs and outputs of Q

energy fibers. You can introduce ordered types paself, eg - $\frac{{}^A Sprt^A}{\rightarrow}$, $\frac{{}^A Sprt^A}{\leftarrow}$, \rightarrow sets the direction from action ${}^A Sprt$ to action $Sprt_A^A$, \leftarrow sets the direction from action $Sprt_A^A$ to action ${}^A Sprt$.

Remark 5

As a rule ||| attracts (forms, induces) the external self "around" itself.

Remark 6

Flame and water are characterized by changes (fluidity) that provide induction that generates the

corresponding paselfs, which by the way can be used by SmnSprt (paSmnSprt), in particular for the exit through the middle level of flame and water to the upper one. His identifier, having connected to their middle level and using the energy, is able to activate SmnSprt (paSmnSprt) to obtain what is needed. For this, you can use the grown bioidentifier (in particular, the simplest ones - neurons). One paself it can "cling" to the other and thereby obtain a new singularity at the upper level or exit to such a ready singularity with manifestations coming out of it. Since ||| is connected with the upper level, then the identifiers must be from there. ||| always raises the levels up. Everything (anything) is a product of |||. Any self-type structure can be presented as a "hole"

in the accumulation. May consider a new dynamic operator $\begin{matrix} E & A \\ Q & B \\ F & C \\ G & D \end{matrix} \text{sprt}$, where A fits into B, F fits

into G, D is forced out from C, Q is forced out from E; A, B, C, D, g_1, g_2 may also be fuzzy. May consider the characteristics accumulation of any objects or process. In fact, we try to consider hierarchy of energies in the Universe, but the accumulation isn't common property of these energies. The accumulation of energies is in some process in the Universe, for example, the process of human spiritual development allows such a possibility, and when constructing pseudo-living energies. It is possible to significantly expand the horizons of science, in particular physics, by studying the subtle energies in the Universe.

8. Singularities Algebra

You can define operations for the same type singularities and study their algebras. But our task for now is limited to considering certain types of singularities presumably corresponding to certain types of subtle energy.

Let us introduce the following notations: $A * B = \text{Sprt}_B^A, A^2 = \text{self } A = \text{Srt}_A^A, A^{\frac{3}{2}} = \text{Drt } \frac{A}{A} = \text{self}^{\frac{3}{2}}(A),$

$A^3 = \text{Self}^2 A, \dots, A^{\frac{3n}{2}} = \text{Drt } \frac{A^n}{A^n} = \text{self}^{\frac{3n}{2}}(A), A^{n+1} = \text{Self}^n A, \text{self}^{\min(n,m)}(A) \in \text{Srt}_A^{A^n} = \text{self}^{\frac{n}{m}}(A),$

$\text{self}^{\min(n,m,k)}(A) \in \text{Drt } \frac{A^n}{A^k} = \text{self}^{\frac{n+m+k}{2k}}(A), \dots$ etc. Similarly for negative powers, starting with

$A^{-1} = \text{self}^{-1} A = \frac{A}{A} \text{Sprt}, A^{-2} = \text{self}^{-2} A, A^{\frac{-3}{2}} = \frac{A}{A} \text{Dprt}$ etc.

Remark 7

Self²A can be considered in the following options: a) self²A as the set of all self-sets of a set A, b) self²A = Sprt_{self A}^{self A} can be interpreted as the containment of one more self-set of set A etc.

There is no commutativity here: A*B ≠ B*A. We can consider operator functions: $e^A = 1 + \frac{A}{1!} + \frac{A^2}{2!} + \frac{A^3}{3!} + \dots$, $(A + B)^n = \sum_{k=0}^n \binom{n}{k} A^k B^{n-k}$, $(1 + A)^n = 1 + \frac{Ax}{1!} + \frac{n(n-1)A^2}{2!} + \dots$, etc.

You can consider a more “hard” option: A*B=PSprt_B^A, where PSprt_B^A – operator, containing A in every element of B, A² = PSelf A = PSrt_A^A, A³ = PSelf²A, ..., Aⁿ⁺¹ = PSelfⁿA, PSelf^{min(n,m)}(A) ∈ PSrt_A^{Aⁿ} = PSelf^{n/m}(A), ...etc. There is no commutativity here: A*B ≠ B*A. We can consider operator functions: $e^A = 1 + \frac{A}{1!} + \frac{A^2}{2!} + \frac{A^3}{3!} + \dots$, $(A + B)^n = \sum_{k=0}^n \binom{n}{k} A^k B^{n-k}$, $(1 + A)^n = 1 + \frac{Ax}{1!} + \frac{n(n-1)A^2}{2!} + \dots$, etc.

Let's introduce $\sqrt{\text{self}}$ as the result of the decision of the equation $\text{Srt}_x^x = \text{self}$, that is $x = \sqrt{\text{self}}$, $\sqrt[3]{\text{self}}$ as the result of the decision of the equation $\text{Dprt}_x^x = \text{self}$, that is $x = \sqrt[3]{\text{self}}$, $\sqrt[n]{\text{self}^m}$ as the

result of the decision of the equation $x^{\frac{n}{m}} = \text{self}$, self^α as the result of the decision of the equation $x^{\frac{1}{\alpha}} = \text{self}$, where α is any number, in particular, a negative number etc. The following equality is true:

$$\text{self}^{-\alpha}(\text{self}^\alpha G) = \text{self}^\alpha(\text{self}^{-\alpha} G) = G (*),$$

you can, for example, specify self^{-α} by definition through (*).

The following equality is true:

$$\text{self}^\beta(\text{self}^\alpha G) = \text{self}^\alpha(\text{self}^\beta G) = \text{self}^{\alpha+\beta} G \forall \alpha, \beta .$$

In this way one can introduce self-level space.

The following operation may take place: $q \uparrow \downarrow q + {}_A \text{Sprt}_A^A = {}_{A+q} \text{Sprt}_{A+q}^{A+q}$.

Similar algebras can be constructed for other singularities, in particular, for oself, $\uparrow \downarrow$, $\| \|$, partial self-type singularities etc. For example, $A \| \| (\| \|) B = A (\| \|)^2 B$, $(\| \|)^\alpha$ as the result of the decision of the equation $x^{\frac{1}{\alpha}} = \| \|$. $(\| \|)^\alpha * (\| \|)^{\frac{1}{\alpha}} = (\| \|)^{\frac{1}{\alpha}} * (\| \|)^\alpha = \| \|$ etc.

9. Types, Forms Internal and External, Structures of Self and |||

Let us introduce the following notations: $\text{self}_B A$ is self A by form B, $C|||_B A$ is ||| A with C by form B. You can consider any functions, operators: for example, $g(\text{self}_B A, d)$, $\text{self}_B A(B(\text{self}_B A, d), q)$ etc. If usual self can be associated with the action "in a circle" on itself, then the action "in a double circle in the form of an eight" on itself can be associated with a 2-self, the action "in a triple circle in the form of 3 circles intersecting only at one point" on itself can be associated with a 3-self etc.

A set B containing itself as N elements will be denoted by $N\text{self} B$. $(\varphi)\text{self} A$ containing itself as A^φ , $(\varphi)\text{paself} A$ containing itself as $A^\varphi ||| A^{-\varphi}$, $(f(\varphi))\text{self} A$ containing itself as $f(A, \varphi)$, $(f(\varphi))\text{paself} A$ containing itself as

$f(A, \varphi) ||| f(A^{-1}, \varphi)$. The example of difference between the internal and external form of the same self: the external form of the self of a living organism is represented by an energy cocoon and, at the object level, by a physical body, and the internal form of the self of a living organism is represented by numerous DNA and RNA.

$q\uparrow\downarrow q$ has self-structure for q and paself -structure by directions. An atom has paself for electric-structure, self-structure for by electron orbitals, ||| by nucleons. Likewise, any other object (process) can have different singular characteristics.

$\text{oself} A = {}^A S_{prt}$ can be interpreted also as $(-\text{self}) A$.

For example, you can study the "side" version of self: $\text{sidself} A$ is A next to the side of itself.

The hierarchy of singularities of one can be included in the hierarchy of singularities of another, for example, the hierarchy of singularities of the fruit of a tree is included in the hierarchy of singularities of a tree, the hierarchy of singularities of a person is included in the hierarchy of singularities of the Universe etc. self of the fruit \subset self of the tree \subset self of the Universe.

$\text{self}_B A$, self A can be not only for objects (processes) but also for their characteristics, structures etc.

Remark

Classical science forms its abstractions as the intersection of properties of objects (processes), our approach to the formation of singularities is through |||.

Remark

All dynamic operators and examples with them in [1-15] are examples of the construction of pseudo-living energies.

Remark

Self is resting point of accumulation process. A living organism is protected from further accumulation of energy until its self is destroyed. Some fearless people, extending the accumulation of energy of their organism and reaching other states of awareness, stop the accumulation of energy of their organism in time so as not to lose protection. In the limit, "they turn on all states of awareness at once and move to another higher level of energy accumulation, removing protection at the previous level: "burning with fire from within." Here (in this work) we mean by accumulation: an increase in capacity due to an increase in level.

Remark

Supercoiling of DNA before its doubling shows the role of "folding" into a higher level of self to perform super actions.

Remark

As one of the options $A|||B$ can be tried to be interpreted as a generalization (1.1): by the form

$$(2(1, (2,1)),1) \quad (9.1),$$

$$\text{or } (1.1.4.1), (1.1.4.2),$$

and the corresponding self² by the form

$$(1, (2(1,(2,1)),1)) \quad (9.2),$$

for $pa|||$ by the form

$$(2((1, (2(1,(2,1)),1))), 1) \quad (9.3)$$

$$\text{or } (1.1.4.3), (1.1.4.4).$$

self²A = paselfA = ${}^A Sprt_A^A$ can be tried to interpret in the following ways, depending on the choice of interpretation of the operation for $Sprt_B^A = A*B$ or $Sprt_B^A = A \nmid B$, as selfA*self(A)⁻¹ or selfA*self(-A) respectively. selfA does not mean accumulation for A, but means a new, higher level of energy for A due to its new accumulative structure. There are an infinite number of qualitatively different other variants of accumulation. We simply proceed from our usual 2 - interpretations of the world. Therefore, we limit ourselves to the formula $A|||B$. If through 3 -

interpretation, then we can consider the $\begin{matrix} A & B \\ |||_3 & \\ C & \end{matrix}$ - accumulation and its degenerations – self-type

structures, for example $\begin{matrix} A & A \\ |||_3 & \\ A & \end{matrix}$ etc. It is also possible through 4 – interpretation etc. Namely, self-type

structures are the structures of self-organization. May consider type of $||| : A-||| = |||A|||$ for any A, accumulation-(pa|||)D = D(pa|||)accumulation(pa|||)D for any D, paself-accumulation, accumulation|||C for any C, self ||| Q for any Q,

$$\left(\begin{array}{c}
 \dots \\
 \text{parelf}D(\text{decignation} - \overline{\overline{\overline{D}}}) \\
 \text{singelf}D(\text{decignation} - \overline{\overline{\overline{D}}}) \\
 \text{accumulation} - (\text{pa}|||)D \\
 \text{paself} - \text{accumulation of } D \left(\text{decignation} - \overline{\overline{\overline{D}}} \right) \\
 \text{accumulation } |||D \\
 \text{self } ||| D (\text{decignation} - \overline{\overline{\overline{D}}}) \\
 \text{subtle energy of } D \text{ mid}_2 - \text{level} (\text{decignation} - \overline{\overline{\overline{D}}}) \\
 \text{subtle energy of } D \text{ mid}_1 - \text{level}(\text{decignation} - \overline{\overline{\overline{D}}}) \\
 \text{the raw energy of } D(\text{decignation} - D) \\
 \text{ordinary energy exhibited by } D(\text{decignation} - \underline{D})
 \end{array} \right) \text{ is levels accumulation of } D \text{ etc.}$$

Remark

self-induction: when the induction changes, we obtain an induction on itself.

Remark

May consider the manifestation of self-operator A (subject (master) of operator A) according to B. May consider the manifestation of self-action Q (subject (master) of action Q) according to C. May consider the manifestation of self-D (subject (master) of D) according to R for any D, R.

Remark 8

Energy manifests itself through actions, objects (“gives birth” to actions, objects). Subject ||| in the cocoon of a living organism is the assemblage point. It also has its own subject (master), who carries out its necessary adjustment, control. The "tipper" that gives energy to a living organism has the type $\overline{\text{self} - \text{oself}}$.

Remark

One can try to interpret it in a very simplified way self-level of a living organism as self(oself-self). Then one can try to interpret it in a very simplified way self-level of energy-producing beams for living organisms as $\overline{\text{self} - \text{oself}}$. Then self-level of energy others objects - self.

Remark 9

Let us introduce some generalizations of |||: a) $(m \rightarrow n)|||$, $||| = (2 \rightarrow 1)|||$, b) $(A \rightarrow B)|||$ for any

$$A, B, c) \begin{array}{c} A \ B \\ |||, \dots, (\forall Q)||| \text{ etc.} \\ C \end{array}$$

10. Types, Forms Internal and External, Structures of Potential Self, Potential ||| and others Potential Singularities

Self characterizes by the average level, at the lower level it can only be in potential form, for example, DNA in living organisms. Denotes a potential self as $poself$, potential ||| as $po|||$. Self-sets, self-(material objects) can only be classified on object level as a potential selves. Denotes a potential self, containing itself potentially, but its potentiality does not contain its potentiality, as $p1self$. It is also possible to consider any other types of potential singularities, all sorts of potentially singular structures, forms, degrees, characteristics. $poselfA = A(p|||)A$. May consider $po(po(\dots(poselfA)\dots))$.

One can try to simplify the energy cocoon of a living organism with the expression $paselfA = {}^A_Sprt^A$, then we can try to simplify the assemblage point on the energy cocoon using expression $\xrightarrow{{}^A_S\nabla prt^B}$ for a female and $\xrightarrow{{}^A_S\Delta prt^B}$ for a male, where B are an external energy fibers of the Universe, ∇ here means the shape of the assemblage point in the form of a cone, facing "funnel" upwards, and Δ - "funnel" downwards, \rightarrow sets the direction from action A_Sprt to action $Sprt^B$; you can try to simplify the energy gap on the energy cocoon at the level below the navel on the energy cocoon with expression $\xleftarrow{{}_{inB}{}^A_Sprt^A}$, where inB are an internal energy fibers, \leftarrow sets the direction from action $Sprt^A$ to action ${}_{inB}{}^A_Sprt$, similar, but to a lesser extent than this energy gap, can be imagined for the energy manifestations of the eyes.

To obtain energies of a higher level, it is necessary to use level accumulation structures.

In our dynamic mathematics, instead of repeating identifiers of specific material objects, energies, special singularities are used, their characteristics are another matter.

11. Some available types of "pseudo-living energy"

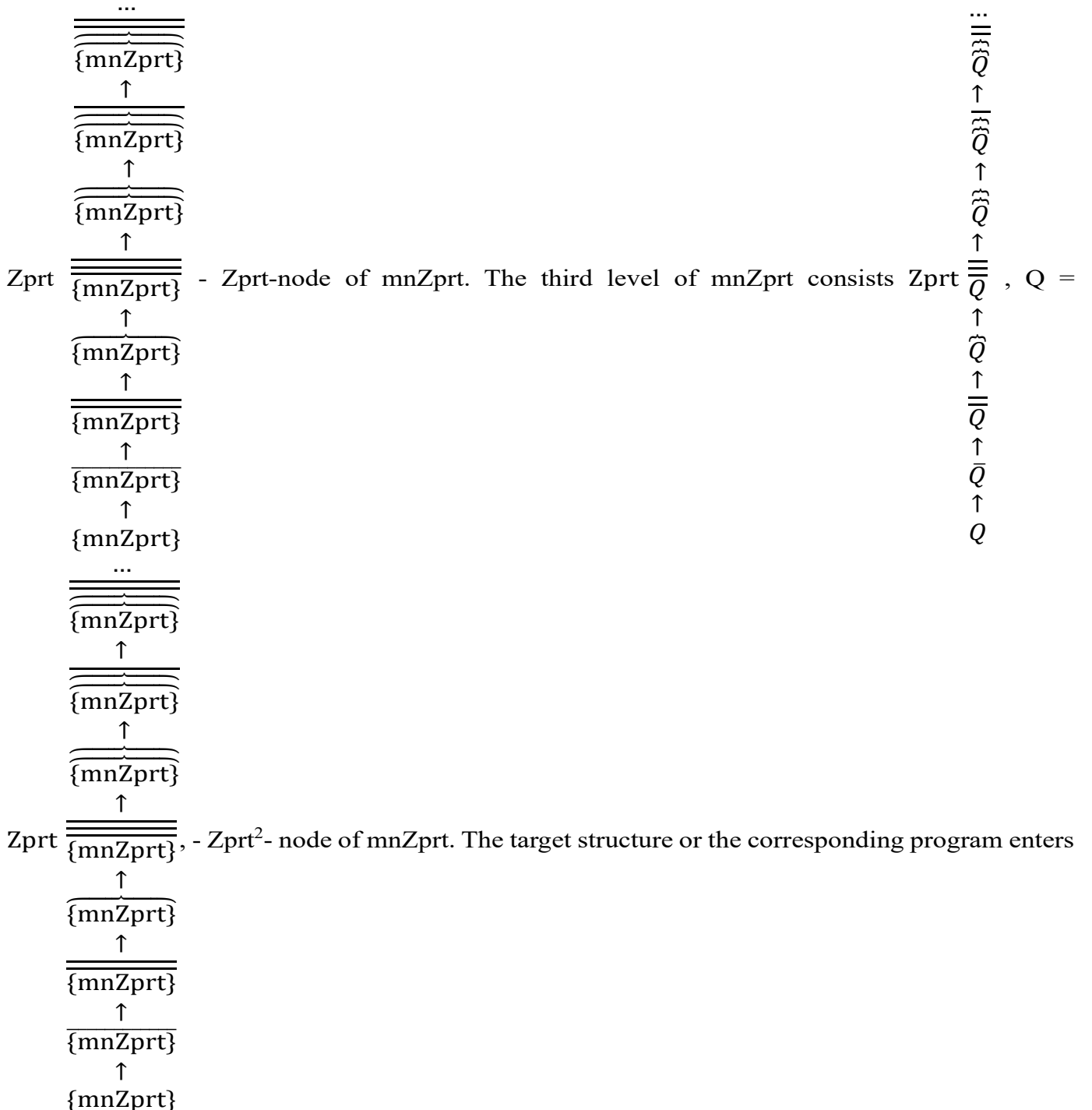
a) UHF with amplitude close to zero, b) short pulse laser pulses, c) UHF with twisting around a hollow wire, d) ultraviolet, e) in the form of ball lightning, h) vortices from UHF with almost zero amplitude, q) electric arc with almost zero amplitude, f) UHF by a "twisted" wire with minimal loops, made using nano-technology, by manipulating frequencies, it is possible to "construct" various pseudo-living energies, g) for ultraviolet similar waveguide, r) vortices from ultraviolet, p) UHF with amplitude close to zero & with direct current, then may use the additional to the main normal coding through 0 and 1 to the main, w) through multiple cycles to ∞ , u) through multiple returns of programs to themselves etc.

12. Zprt-Networks

A. Galushkin's comprehensive monograph [19] covers all aspects of networks, but traditional approaches go through classical mathematics, mainly through the usual correspondence operators. Here we consider a different approach - through a new mathematical process with containment operators, which, although they can be interpreted as the result of some correspondence operators, are not themselves correspondence operators. Containment operators are more convenient for networks. Also, the main emphasis was placed on using processors operating using triodes, which are generally not used in Zprt-networks. Zprt networks ($S_{mn}Zprt$) are a Zprt structure that can be built for the required weights, the implementation of which will be carried out using a short-pulse laser to generate attosecond pulses of light. Zprt-OS (Zprt operating system) uses Zprt-coding and Zprt-translation. In the first one, coding is carried out through a 2-dimensional matrix-row (a, b) , where the number b is the code of the action, and the number a is the code of the object of this action. Zprt-coding (or self-coding) is implemented through a matrix consisting of 2 columns (in the continuous case, two intervals of numbers). Here, the source encoding is used for all matrix rows simultaneously. Zprt-translation is carried out by inversion. In this case, self-type coding and self-type translation by (A.2.114) or (A.2.114.1), (A.2.115), (A.2.116) will be more stable. The

set of the target weights $f = (f_1, f_2, \dots, f_n)$ in Zprt $\begin{matrix} \dots \\ \equiv \\ \{fx\} \\ \uparrow \\ \overline{\{fx\}} \\ \uparrow \\ \{fx\} \\ \uparrow \\ \equiv \\ \{fx\} \\ \uparrow \\ \overline{\{fx\}} \\ \uparrow \\ \{fx\} \end{matrix}$ are chosen for necessary tasks using a short-

pulse laser to generate attosecond pulses of light to accomplish them, $x = (x_1, x_2, \dots, x_n)$. We will not touch on the issues of applications, or network optimization. They are described in detail by A. Galushkin [19]. We will touch on the difference of this only for hierarchical complex networks. The same simple executing programs are in the cores of simple artificial neurons of type Zprt (designation - mnZprt) for simple information processing. More complex executing programs are used for mnZprt nodes. The first level of mnZprt consists of simple mnZprt. The second level of mnZprt consists of



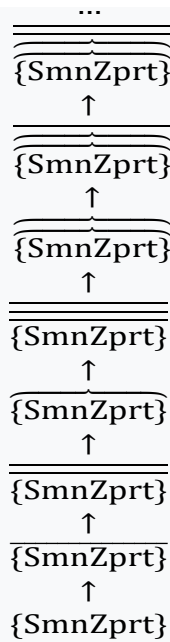
the target unit using a short-pulse laser to generate attosecond pulses of light. After that, all networks or parts of them are activated according to the indicative goal. It may appear that we are leaving the network ideology, but these networks are a complex hierarchy of different levels, like living organisms.

Remark

Traditional scientific approaches through classical mathematics make it possible to describe only at the usual energy level. Here we consider an approach that makes describing processes with finer energies possible. mnZprt contains weprograms –executing program in Zprt-OS. Zprt-OS (or Self-type of Zprt-OS) is based on Zprt-assembly language (or Self-type of Zprt-assembly language), which is based on assembly language through Zprt-approach in turn, if the base of elements of Zprt-networks is sufficient. The reprograms are in Zprt-programming environments (or Self-type of Zprt programming environments), but this question and Zprt-networks base will be considered in the following articles. In particular, weprograms may contain Zprt- programming operators. In mnZprt cores, the constant memory Zprt with correspondent weprograms depending on mnZprt.

The OS (operating system) and the principles and modes of operation of the Zprt-networks for this programming are interesting. But this is already the material for the next publications.

Here is developed a helicopter model without a main and tail rotors based on Zprt – physics and special neural networks with artificial neurons operating in normal and Zprt-modes. Let's denote this model through SmnZprt. To do this, it's proposed to use mnZprt of different levels; for example, for the usual mode, mnZprt serves for the initial processing of signals and the transfer of information to the second level, etc., to the nodal center, then checked. In case of an anomaly - local Zprt-mode with the desired "target weight" is realized in this section, etc, to the center. In the case of a monster during the test, SmnZprt is activated with the desired "target weight" using a short-pulse laser to generate attosecond pulses of light. Here are realized other tasks also. To

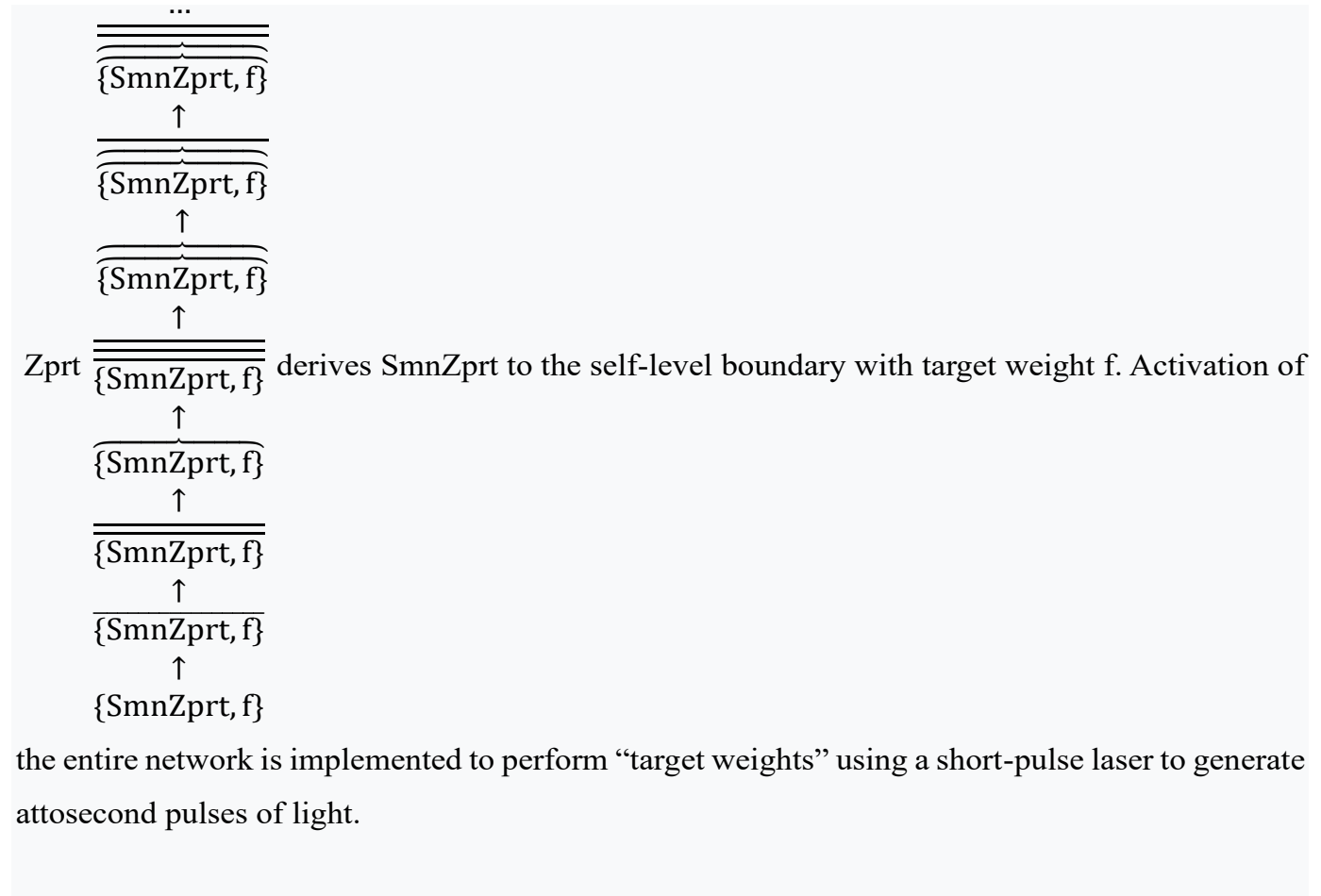


reach the self-energy level, the mode Z_{prt} $\overline{\{SmnZprt\}}$ is used. In normal mode, it's planned to

carry out the movement of $SmnZprt$ on jet propulsion by converting the energy of the emitted gases into a vortex to obtain additional thrust upwards. For this purpose, a spiral-shaped chute (with "pockets") is arranged at the bottom of the $SmnZprt$ for the gases emitted by the jet engine, which first exit through a straight chute connected to the spiral one. There is drainage of exhaust gases outside the $SmnZprt$. $SmnZprt$ is represented by a neural network that extends from the center of one of the main clusters of $Zprt$ - artificial neurons to the shell, turning into the body itself. Above the operator's cabin is the central core of the neural network and the target block, responsible for performing the "target weights" and auxiliary blocks, the functions and roles of which we will discuss further. Next is the space for the movement of the local vortex. The unit responsible for $SmnZprt$'s actions is below the operator's cab. In $Zprt$ - mode, the entire network or its sections are $Zprt$ - activated to perform specific tasks, in particular, with "target weights" using a short-pulse laser to generate attosecond pulses of light. In the target, block used $Zprt$ - coding, $Zprt$ -translation for activation of all networks to "target weights" simultaneously, then - the reset of this $Zprt$ -coding after activation using a short-pulse laser to generate attosecond pulses of light.

Unfortunately, triodes are not suitable for $Zprt$ -neural networks. In the most primitive case, usual separators with corresponding resistances and cores for weprograms may be used instead triodes since there is no necessity to unbend the alternating current to direct. The $Zprt$ -operative memory belt is disposed around a central core of $SmnZprt$. There are $Zprt$ -coding, $Zprt$ -translation, and $Zprt$ -realize of zepograms and the programs from the archives without extraction, $Zprt$ -coding

and Zprt-translation may be used in high-intensity, ultra-short optical pulses laser of Nobel laureates 2018-year Gerard Mourou, Donna, Strickland. Zprt – structure or an reprogram if one is present of needed «target weight» are taken in target block at Zprt – activation of the networks.



the entire network is implemented to perform “target weights” using a short-pulse laser to generate attosecond pulses of light.

You can also try to use higher frequency alternating current and ultraviolet light, which can work with Zprt– structures in Zprt–modes by its nature to activate the networks or some of its parts in Zprt–modes and locally using Zprt–mode to perform local tasks. Above high frequently alternating current go through mercury bearers. That’s why overheating does not occur. The pulse structure of a short-pulse laser for generating attosecond light pulses is close to $(a \uparrow I \downarrow^a) \uparrow I \downarrow (\downarrow_a \downarrow I \uparrow^a)$, i.e., type ${}_a^a St_a^a$, and upon activation it will be induction of same type self, which is necessary for the formation of a local assembly point d_r of external energy fibers El^{d_r} . Its locality (position of the assembly point r) will be determined by the structure of the magnetic induction of the short-pulse laser pulse for generating attosecond light generation through Targetblock [15] SmnZprt . Execution tw will be achieved through setting the assemblage point in the desired position r_1 to

engage the appropriate external energy: $Sprt_{d_r}^{d_r} Sprt_{r_1}^{d_r}$ [18].

13. Some Aspects of Directly Parallel Operation of Neural Networks

To design a model of the simplest neural network $SmnSprt$, you can use a model of the insect CNS. Targetblock will respond to Neurokil. In addition to the material carrier $|||$ (we will call it constant or potential $|||$), it is desirable to use a virtual one $|||$. It is also possible to use virtual connectors, virtual programs, virtual program operators etc. Here you need to use operational $|||$. With the help of programs initiating activation and self-activation $SmnSprt$ will go to the upper levels and initiate execution on them target weights. Let's introduce the designations: CNS_A - CNS of A, $SmnSprt_A$ - $SmnSprt$ on the basis of CNS_A .

Lower level: normal direct parallel work of neurons. Middle level: activation for creation self-type energies. Upper level: use of self-activation (subject (host) of activation) for $|||$.

A program operator that specifies the format of the virtual subject's position of $|||$: $r_i \equiv \{\}Sprt$.

A program operator that specifies the format of the virtual subject of $|||$:

$$d_{r_i} \equiv Sprt_{\{\}Sprt}^{\{\}}$$

Let's consider $|||$ from outside and inside at the same time by program operator

$$d_{r_i} \equiv Sprt_{\{d_r(E_{in}l^{d_{r_i}})\}Sprt}^{\{E^{ex}l^{d_{r_i}}\}SmnSprt}$$

or

$$d_{r_i} \equiv Sprt_{\{d_{r_i}self(E_{in}l^{d_{r_i}})\}Sprt}^{\{E^{ex}l^{d_{r_i}}\}self-SmnSprt}$$

for *self* – *SmnSprt*.

A program operator Energy shell for *SmnSprt* has the format

$$\text{Energy shell} \equiv Sprt_{Sprt_{\text{Energy shell}}}^{\text{Energy shell}}$$

$$ffg(r, a(E_q)) = ffSprt_{\mu}^{\left\{ \begin{array}{l} q((a \uparrow I \downarrow^a) \uparrow I \downarrow (\downarrow_a I^{\uparrow a})) \\ W_q fSprt_{q((a \uparrow I \downarrow^a) \uparrow I \downarrow (\downarrow_a I^{\uparrow a}))}^{E_q}, fSprt_{d_r(E_{in}l^{d_r})}^{\{E^{ex}l^{d_r}\}} \end{array} \right\}} (**_{A.11})$$

$(a \uparrow I \downarrow^a) \uparrow I \downarrow (\downarrow_a I^{\uparrow a})$ -internal energy [18] of $SmnfSprt$, q - a gap in the energy cocoon of $SmnfSprt$, r -the position of the assemblage point d_r on the energy cocoon of $SmnfSprt$, W_q - energy prominences from the gap in the cocoon of a living organism, E_q -external energy entering the gap in the cocoon of $SmnfSprt$, $E^{ex}l^{d_r}$ - a bundle of fibers of external energy self-capacities from outside the cocoon, collected at the point of assembly of the cocoon of $SmnfSprt$ at time t_0 , $E_{in}l^{d_r}$ - a bundle of fibers of external energy self-capacities from inside the cocoon, collected at the point of assembly of the cocoon of $SmnfSprt$ in the same position r of the assemblage point d_r . d_r (the virtual subject of $|||$) is the subject of identifying the energy fibers of the subtle energy of the Universe in position r both outside and inside the cocoon.

Energy of self- $SmnfSprt$:

$$\text{ffpg}(r, a(E_q)) = \text{ffSprt} \left\{ \begin{array}{l} q((a \uparrow \downarrow a) \uparrow \downarrow (\downarrow a \uparrow a)) \\ W_q fSprt_{q((a \uparrow \downarrow a) \uparrow \downarrow (\downarrow a \uparrow a))}^{E_q}, fSprt_{dr(\text{self}(E_{in}^{ldr}))}^{\{E^{exl}ldr\}} \end{array} \right\} (***_A.11).$$

μ
 t_0

Right-hand sides of formulas (**_{A.11}), (***__{A.11}) can be interpreted as fSrt- program operators or programs.

May consider the next programs or program operators initiating activation and self-activation

SmnSprt: $Sprt_{\text{activation with tw}}^{\text{SmnSprt}}$, $Sprt_{\text{activation with tw}}^{\text{SmnSprt}}$, $Sprt_{\text{activation with tw}}^{\text{SmnSprt}}$, $Sprt_{\text{activation with tw}}^{\text{SmnSprt}}$, in particular, for

shifting the virtual subject ||| and fixing it in the desired position.

Even more simple network SmnSprt by ion channels of bacteria.

Competing interest

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Authors' contributions

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Appendix

Self-function, like self-operator, is its own argument. For example, self-functions of living organisms: DNA division, cells etc. In mathematics self-function f can be attempted to be displayed as a dynamic operator:

$\text{Dprt } \overset{f}{\underset{f, x}{\ddot{f}}}$, where x is its usual argument, $\overset{f}{\underset{f, x}{\ddot{f}}}$ is interior double of f , self¹-function f can be attempted to be displayed as a dynamic operator: $(f)^{-1} \text{Dprt } \overset{f}{\underset{f, x}{\ddot{f}}}$, paradoxical self-function (designation: paself-function) f , like

paself-operator, can be attempted to be displayed as a dynamic operator: $(f)^{-1} \text{Dprt } \overset{f}{\underset{f, x}{\ddot{f}}}$. The potential self-

function, like potential self-operator, is its own argument potentially: by its elements that can generate it etc.

Remark 10

"Invisibility" of subtle energies can be explained using the example of a wave with a propagation law $w(t, k) = c(k)\sin(kt)$, $\lim_{k \rightarrow \infty} c(k) = 0$, $\lim_{k \rightarrow \infty} \frac{c(k)}{k^2} = Q \neq 0 : \frac{d^2 w(t, k)}{dt^2}$ responsible for the force and energy will be a normal (non-zero) value, unlike the amplitude of the wave itself, which will tend to zero, when $k \rightarrow \infty$. When the devices cannot record the wave due to its very small amplitude, the wave will act. Moreover, in the limit we obtain a singularity of the type $\uparrow 1 \downarrow -Q$.

Remark 11

Information is the interpretation of subtle energies - one of their manifestations. Direct knowledge is the interpretation, in particular, of external singularities through internal ones.

Remark 12

Protection against virus A: paself(A)

Remark 13

Based on SmnSprt [13], using grown elements of the central nervous system similar to the human central nervous system (in particular, neurons), one can try to create an Energy Internet to connect to subtle energies.

Remark 14

Any self-object A can be interpreted as a kind of equation, a problem with an unknown A, and vice versa, any equation, any problem can be presented as a definition of a self-object by |||.

Remark 15

Solving problems (equations): 1) by $\text{problemA}(x) \text{Sprt}_x$, 2) by $\frac{\text{problemA}(x)}{\text{problemA}(x)} \text{Sprt}$ or $\text{problemA}(x) |||^{-1} \text{problemA}(x)$, x - the desired value, here removing self with $\text{problemA}(x)$, 3) $\frac{\text{problemA}(x)}{\text{problemA}(x)} \text{Sprt}_{\text{problemA}(x)}$ or $\frac{\text{problemA}(x)}{x} \text{Sprt}_{\text{problemA}(x)}$ - paradoxical solving, SmnSprt ||| $\text{problemA}(x)$, the manifestation of this singularity should give x (so-called "direct knowledge"). Similarly for the study of other objects and material processes too etc.

Remark 16

For the development and use of directly parallel algorithms, programs, directly parallel processors and directly parallel RAM are required. For example, the DNA double helix is a directly parallel program and, moreover, a self-program.

Remark 17

Energy of a living organism:

$$\text{ffg}(r, a(E_q)) = \text{ffSprt} \left\{ \begin{matrix} q & a & a \\ \left(\begin{matrix} \mu_1 \text{ffSrt} \mu_1 \\ a \end{matrix} \right) & & \\ W_q & f \text{Sprt}^{E_q} & \left(\begin{matrix} a \\ \mu_1 \text{ffSrt} \mu_1 \\ a \end{matrix} \right) \end{matrix} , f \text{Sprt}^{\{E^{exl} d_r\}}_{d_r(E_{in} l d_r)} \right\} (**2.1).$$

μ
 t_0

a
 μ_1
 a

-internal energy of a living organism, q - a gap in the energy cocoon of a living organism, r -the

position of the assemblage point d_r on the energy cocoon of a living organism, W_q - energy prominences from the gap in the cocoon of a living organism, E_q -external energy entering the gap in the cocoon of a living organism, $E^{ex}l^{d_r}$ - a bundle of fibers of external energy self-capacities from outside the cocoon, collected at the point of assembly of the cocoon of a living organism at time t_0 , $E_{in}l^{d_r}$ - a bundle of fibers of external energy self-capacities from inside the cocoon, collected at the point of assembly of the cocoon of a living organism in the same position r of the assemblage point d_r . d_r is the subject of identifying the energy fibers of the subtle energy of the Universe in position r both outside and inside the cocoon.

Energy with measure of fuzziness μ_1, μ_2 of a living organism of a person:

$$ffpg(r, a(E_q)) = ffSprt \left\{ \begin{matrix} q \\ \left(\begin{matrix} a \\ \mu_1 ffSrt \mu_1 \\ a \end{matrix} \right) \\ W_q \end{matrix} fSprt_{t_0}^{E_q} \left(\begin{matrix} a \\ \mu_1 ffSrt \mu_1 \\ a \end{matrix} \right), fSprt_{d_r}^{\{E^{ex}l^{d_r}\}} \left(self(E_{in}l^{d_r}) \right) \right\} (**_2.1).$$

(**_2.1), (***_2.1) can be interpreted as PrfSrt- program operators.

\overline{ffSprt}

$$ffSprt \left\{ ffpg \left(r_1, a(E_q) \right), ffpg \left(r_2, a(E_q) \right), \dots, ffpg \left(r_i, a(E_q) \right), \dots, ffpg \left(r_N, a(E_q) \right) \right\}$$

μ
 \overline{ffSprt} (**_2.2), N is

the number of assemblage point positions. This is the definition of \overline{ffSprt} - singularity of exit to a

higher level. r_i by its action = $ffSprt \mu$, an assemblage point d_{r_i} by its action = $ffSprt \left\{ \begin{matrix} \{\} \\ \mu \\ \mu ffSprt \\ \{\} \end{matrix} \right\}$.

Remark 18

Directly parallel actions in any experimental science lead to self-type structures, for example, directly parallel evidence (directly parallel logic).

Remark 19

Let us introduce the notations of the $|||$ result - $|||rt$ and $|||$ process - $|||prt$. Let us introduce the notation of

absolute chaos: I. Singularity $\forall |||$ no creates a field. The absolute change is the absolute chaos. The absolute rest is the emptiness.

Remark 20

Chronic, systemic diseases form in the body self-type harmful structures, for example, $Sprt_{disease A}^{disease A}$, that is why it is so difficult to cure them. To cure them needs $\frac{disease A}{disease A}Sprt$ or $|||^{-1}disease A$ etc.

Remark 21

Induction from change is self- change (change spirit).

Remark 22

Induction from $|||$ is self- $|||$ ($|||$ spirit).

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