**Some St – elements applications**

Using elements of the mathematics of St1, we introduce the concept of St - the change in physical quantity B: $St\_{x}^{\left\{∆\_{1}B,...,∆\_{n}B\right\}}$. Then the mean St - velocity will be vcpst(t, Δt) =, $St\_{x}^{\left\{\frac{∆\_{1}B}{∆t},...\frac{∆\_{n}B}{∆t}\right\}}$and St is the velocity at time t:$v\_{st}=\lim\_{∆t\to 0}v\_{срst}(t,Δt)$. St – acceleration $a\_{st}=\frac{dv\_{st}}{dt}$.

In normal use, simply Stx reduce to result a mean at point x of space, and when using Stx with "target weights", we get, depending on the "target weights", one or another modification, namely, for example, the velocity $v\_{st}^{f}$(with a "target weight" f) in the case when two velocities $v\_{1},v\_{2}$ are involved in the set $\left\{v\_{1}f,v\_{2}\right\} for v\_{st}^{f}=St\_{x}^{\left\{v\_{1}f,v\_{2}\right\}}$, f − instantaneous replacement we get an instantaneous substitution $v\_{1}by v\_{2}$ at point x of space at time t0.

Consider, in particular, some examples: 1) $St\_{\left\{x\_{1},x\_{2}\right\}}^{e} $describes the presence of the same electron e at two different points $x\_{1},x\_{2}$. 2) The nuclei of atoms can be considered as St elements.

Similarly, the concepts of St - force, St - energy are introduced. For example, $E\_{st }^{f}=St\_{x}^{\left\{E\_{1}f,E\_{2}\right\}} $it would mean the instantaneous replacement of energy E1 by E2 at time t0. Two aspects of St– energy should be distinguished: 1) carrying out the desired "target weight". 2) the fixing result of it. Do not confuse energy - St (this is the node of energies) with St – energy that generates the node of energies, usually with the "target weights". In the case of ordinary energies, the energy node is carried out automatically.

Remark. In fact, St – elements are all ordinary, but with "target weights" they become peculiar. Here you need the necessary kind of energy to perform them. As a rule, this energy lies in the region itself. This is natural, since it is much easier to control the elements of the k level by the elements of the more highly structured k +1 level.

Consider the concepts of self-capacity of physical objects. Similar to the concepts of publication: the self-capacity of the first type contains itself, the second type contains a program (like DNA) capable of generating it, the third type - partially containing itself or a program capable of generating it, or both. The question arises about the self-energy of the object. In particular, according to the results of the publication[1]: «$St\_{B}^{B}$ will mean S1f B.» In particular, it allows you to determine the self-energy of DNA through $St\_{DNA}^{DNA}, St\_{Q}^{Q}$ - self-energy Q. The law of self-energy conservation acts on the level of self-energy already. Also, in addition to self-capacities, you can consider the types of self-holding: the first type is containment in itself, the second type is the containment of oneself potentially, for example, in the form of programming oneself, the third type is partial accommodation in oneself. For example: self-operator, self-action, whirlwind. It is as a result of self-holding that self-capacity can be formed.

Let's clarify the concept of the term self-capacity: this is the capacity that contains itself potentially. Consider some examples for self-capacity: ordinary lightning, electric arc discharge, ball lightning.

Based on the elements of St physics and special neural networks with artificial neurons operating in normal and St modes, a model of a helicopter without a main and tail rotors was developed. Let's denote this model through Smnst. To do this, it is proposed to use artificial neurons of type St (designation - mnSt) of different levels, for example, for the usual mode, mnSt serves for the initial processing of signals and the transfer of information to the second level, etc. to the nodal center, then checked and in case of anomaly - local St - mode with the desired "target weight" is realized in this section, etc. to the center. Here, in case of anomaly during the test, Smnst is activated with the desired "target weight". Here are realized other tasks also, in particular, scale for a special purpose to simultaneous multiplication of numbers set $\left\{а\right\}= (a\_{1},...,a\_{n})$ can be realized through $St\_{x}^{(a\_{1}\*,...,a\_{n-1}\*,a\_{n})}$ in this way: enter the notation of the set B with elements , for any, without repetitions $b\_{i\_{1}i\_{2}...i\_{n}}= (St\_{x}^{\left\{a\_{1\_{i\_{1}}}\*,a\_{2\_{i\_{2}}}\*,..., a\_{n\_{i\_{n}}}\*\right\}})\_{R} for any i\_{к}\left\{i\_{1},i\_{2},...,i\_{n}\right\}$, R= $\left\{St^{\left\{i\_{1}+,i\_{2}+,...,i\_{n}\right\}}\right\},$ R is the index of the lower discharge (we choose an index on the scale of discharges):

|  |  |
| --- | --- |
| index | discharge |
| n | n |
| … | … |
| 1 | 1 |
| , | 0 |
| -1 | 1st digit to the right of the point |
| -2 | 2nd digit to the right of the point |
| ... | ... |

Then$ St\_{х}^{\left\{B+\right\}}$ gives the final result of simultaneous multiplication. Any system of calculus can be chosen, in particular binary.

To reach the self-energy level, the mode $St\_{Smnst }^{Smnst } $is used. In normal mode, it is planned to carry out the movement of Smnst on jet propulsion with the conversion of 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 Smnst for the gases emitted by the jet engine, which first exit through a straight chute connected to the spiral one. There is a drainage of exhaust gases outside the Smnst. Otherwise, Smnst is represented by a neural network that extends from the center of one of the main clusters of St - artificial neurons to the shell, turning on into the shell itself. Above the operator's cabin is the central core of the neural network and the target block, which is 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 Smnst's actions is located below the operators' cab. In St – mode the entire network or its sections are St – activated to perform certain tasks, in particular, with "target weights". Unfortunately, triodes are not suitable for st - a neural network.

Remark. The concept of elements of physics St is introduced for energy space. The corresponding concept of elements of chemistry St is introduced accordingly. Examples: 1) $StE\_{D }^{\left\{a\_{1}q,a\_{2} \right\}} - $the energy of instantaneous substitution and$ a$1 by a2, where a1, and2 are chemical elements, q is instant replacement. Similarly, one can consider for the node of chemical reactions$ St\_{reaction}^{\left\{chemical elements with "target weights"\right\}}$. The periodic table itself can also be thought of as the St element: $St\_{Mendeleev table}^{\left\{list of chemical elements\right\}} T$he ideology of St elements allows us to go to the border of the world familiar to us, which allows us to act more effectively.

LITERATURE:

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