

**SUPER-CHEAP ELECTRICITY.  
ELECTRIC REACTOR WITH CHAIN REACTION.  
FUEL-FREE ELECTRIC POWER INDUSTRY.**

Computer translation

We have created a new Neutron Sciences (NS) – Neutron physics, Neutron chemistry and Neutron astrophysics (see <http://neutronscience.com.ua/books/>) and tested them in solving of the certain tasks.

For example, for Germany, Japan, America and China in nuclear and thermal power plants, we will offer to install electric reactor where chain reaction occurs instead of nuclear reactors and steam-boilers with furnaces for burning various fuels. This preserves all existing infrastructure of a Nuclear power plants (NPP) and Thermal power plants (TPP).

Let us denote the basic tenets of Neutron Sciences

1. Atoms as a nucleus with electrons in nature do not exist, and there are chemical elements in the form of six- and eight-pointed "hedgehogs" (see «[a\) The global scientific sensation](#) – *Andrea Rossi's energy catalyzer (E-Cat) is a home nuclear reactor operating on fast neutrons (as speaking the language of Modern Science (MS))*», Cards №№ 1-3, Card № 8);
2. Negative electric charges are electrons (according to NS) –  $e^-$ -particle and  $\alpha^-$ -particle with speed " $c$ " and  $0,1 \div 0,3 \ll c \gg$  and they have the south pole in the front (ahead);  $e^- = \alpha^- + \gamma^-$  (see «[a\) The global scientific sensation](#) – *Andrea Rossi's energy catalyzer (E-Cat) is a home nuclear reactor operating on fast neutrons (as speaking the language of Modern Science (MS))*», Card № 1);
3. Positive electrical charge is a  $\beta^+$ -particle (graviton according to NS) having a North pole in front (ahead), and  $\beta^+ = \alpha^- + \gamma^-$  (see «[a\) The global scientific sensation](#) – *Andrea Rossi's energy catalyzer (E-Cat) is a home nuclear reactor operating on fast neutrons (as speaking the language of Modern Science (MS))*», Card № 1);
4.  $\beta^+$ -particle and  $e^-$ -particle are transformers, i.e. they can be converted into each other.
5. Mass does not attract mass, i.e., the nature of gravity is other.

It has been determined on the evidence base that the mass is a physical object, not "a physical quantity is a property of the object".

The most convincing thing is to look closely at the formula of power in the modern formulation of the second Newton's law:

$$F = m \cdot a$$

Substituting instead of  $m$  (mass) its definition of Modern Physics (**MP**) in the form of "a physical quantity is an object property" we shall ask a question: can the "mass as an object property" be accelerated or slowed down or cannot?

It is obvious without any proofs that the abstract word 'property...' cannot be accelerated in principle, since it is impossible to exert force upon it.

There remains a definite answer that only the physical object of any size ranging from very small to the stars can get the acceleration under the action of force (see [6. Mass of a body – what is it?](#), [8. Additional explanations for the articles "mass of a body", "tables..." and an example of possibilities of Neutron sciences](#)).

Kilogram (kg) - this is a unit of measurement of the **resistance force of the chemical bonds** of a physical object to gravitational magnetic flux. Any mechanical force  $F$ , which is not related to mass  $m$  or with the  $g$  and which is applied to the body, is compared with the weight force:  $P = mg$ .

Electrical turbo generators receive electricity from the gravitational flow, i.e., from  $\beta^+$ -particles (gravitons in NS).

In nuclear reactors burnable nuclear fuel produces no more than 7% of the electrical equivalent of the installed capacity of NPP power unit at  $\eta \approx 30\%$  and the remaining 93% are supplied by gravitational flow from  $\beta^+$ -particles. In the reactor a chain reaction occurs in the gravitational flow, and  $\alpha^-$ -particles of nuclear fuel only create the conditions for its occurrence ( $\alpha^-$ -particle in NS is the neutron in Modern Science (MF), see [6. Mass of a body – what is it?](#)).

Scheme of the chain reaction is as follows:

$\alpha^-$ -particles of Uranium that are collided with a  $\beta^+$ -particle of the flow, will divide the latter on  $\alpha^-$  and  $\gamma^-$ -particles (nuclear fission in MF), which, in turn, will continue to divide new  $\beta^+$ -particles – the gravitons of the flow. For one primary  $\alpha^-$ -particle of Uranium we have 270  $\alpha^-$  and 270  $\gamma^-$ -particles of the flow.

**In the electrical reactor** electrical energy instead of nuclear fuel creates the conditions for starting a chain reaction all also in the gravitational flow of the  $\beta^+$ -particle at the same cost no more than 7% of the electric installed capacity of NPP power unit. So, for a power unit of 1,000 MW, this would amount to no more than 70 MW.

Today we use gravitational flow, without knowing it. In the production chain of nuclear power plants in a nuclear reactor we get heat from the gravitational flow, and then by means of heat in the form of steam we produce electricity from gravitational flow in the turbogenerator. In our proposal we replace nuclear fuel for electrical energy with the same effect.

Thus, our power plants will become fuel-free power plants, and we can solve the problem of unlimited power generation with the preservation of the environment and climate (see [5. About trying to preserve the environment and the Earth climate](#), with the possibility of a large production of fresh drinking water.

We offer for selling the following technologies:

1. Production of drinking water from sea water by evaporation by means of electric reactors at minimal cost of energy.
2. Production of electricity under existing schemes of Nuclear power plants (NPP) and Thermal power plants (TPP) with replacement of steam generators and nuclear reactors to electric reactors.
3. Production of hot water for heating and domestic use for urban needs.

Electricity is fuel for the electric reactor that guarantees the safety of the environment. The turn-off time of such a reactor is less than 1 second – this is time of pressing the button on the remote control or the response time of the circuit breaker. The main thing is the absence of radionuclides!

Manufacturing of nuclear reactor and steam boilers is much more difficult to manufacture than electric reactors. Accordingly, the price of the latter will be much lower which will provide a wider range of customers and the development of "poor" countries.

The article [«a\) The global scientific sensation – Andrea Rossi's energy catalyzer \(E-Cat\) is a home nuclear reactor operating on fast neutrons \(as speaking the language of Modern Science \(MS\)\)](#) » presents electronic micrograph of a diamond with the actual form of the chemical elements and their sizes (see *Card No. 7*). On its basis and the theoretical model the dimensions and the masses of all the chemical elements was defined and much more, and the tables was compiled.