

## MULTIPLE STARS and PROBLEM of JUPITER

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### Abstract

In the article is shown, than the largest planet can threaten to mankind.

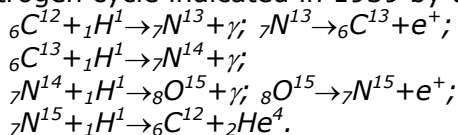
From enunciated cosmological notions follows, that all physical double (and multiple) the stars should be differently age, instead of formed from one condensation, as the official cosmology asserts.

"Though till now there is no full clearness in a problem on a genesis of double and multiple stars, by numerous researches are disclaimed a hypothesis of division as a result of a violation equilibrium of a single rotated star and hypothesis of capture of one star by another, theoretically possible only near to the third star, sidereal congestion or cloud. The simultaneous formation of a multiple system in general process of formation of stars is most possible". Physics of space, "Soviet encyclopedia", M., 1976, page 219.

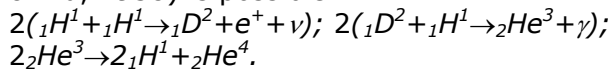
From our notions with all evidence follows (see chapter "Formation and constitution of a solar System"), that the capture of a space material starting from dust, up to bodies of planetary scales is not random confluence of circumstances, and rigid legitimacy determining practically all parameters of a system. Is captured can be and star as a whole, but the more natural course of world development is, that the planets - giants of any star reach the critical sizes, then there is their transmutation into stars - satellites.

In a solar System there are two candidates (except for Mars) on presence of indications of life is a satellite of Jupiter Europe (precisely corresponds) to the Earth as to a satellite of the Sun). It is "Earth" of that time, when the Sun yet has not become a star and Triton. The question is that a satellite of Neptune a Triton is not so stacked on the parameters in the outlined picture of a constitution of a solar System, that can be estimated not differently, as an captured vagabonding planet. It was formed in interstellar medium or (that is less possible) was in any planetary system, having a quantum number 5 or 6 "earth" groups, if it chemical compound will be confirmed by it. Then the Triton corresponds to our Earth or Mars. If there, in warm entrails, for millions years of wanderings somebody has remained, the Earth or Mars them should remind forgot to motherland. Sitting with them inside a Triton, we can reflect on about the future of a solar System. It is represented to not such quiet, as the present. Jupiter now represents "barrel with a powder" in which one the huge reserves thermonuclear combustible are accumulated. Mass of Jupiter practically has reached that critical value, when temperature of entrails of Jupiter will reach values, at which one will become the possible thermonuclear process, and, allowing monstrous pressure inside Jupiter, temperature of a beginning of reaction can be rather small. At all events, on the initial stages of a flash of Jupiter in process the most "hot" nuclei of Boltzmann distribution on energies will participate that will cause to autocatalytic development of reaction. Now own radiation of Jupiter considerably exceeds a flow of energy gained from the Sun. It indirectly indicates that in its entrails already there are thermonuclear processes probably to mismatching adopted now schemes a proton - proton and carbonic - nitrogen, as temperature inside Jupiter is explicitly insufficient for these processes (see chapter 12.4. [1]).

"The energy liberation can flow past by different paths. One of such paths is the carbon-nitrogen cycle indicated in 1939 by the Bete:



As a result of passing of this cycle from four nuclei of hydrogen there is a formation of one nucleus of helium - combustion of hydrogen to formation of helium. Quantity of carbon thus does not vary; it plays a role of catalyst. This cycle flows past stationary at temperatures in tens millions degrees in entrails of hot stars during millions years. Inside more cold stars and Sun the passing of other cycle - proton-proton (the Bete and the Crichfield, 1938) is possible:



This process also results in formation of a nucleus of helium from four nuclei of hydrogen". N.I. Kariakin etc., Brief manual on physics, "Higher School", M., 1962, page 485-486.

Therefore it is possible to offer a pair of mechanisms of cold thermonuclear process under the following schemes, which one will be completely, agreed notions enunciated in the chapter about elementary particles and the theory of nuclei of atoms.

1. At approach of two protons up to center distance of the order 3-10 fm, between them start to act nuclear attractive forces. A nucleus from two protons to exist can not, therefore one of protons during approach is transformed into a neutron and only after that the nucleus of deuterium will be formed. The aggregate process will be such:  ${}_1H^1 + {}_1H^1 \rightarrow {}_1D^2 + e^+ + \nu$ . The official notions assert same basically mechanism. The tritium will be similarly formed also at reaction of deuterium with a proton. The further process of formation of helium is known and already will be utilized at thermonuclear explosions.

2. The plasma representing mixture of protons and electrons at hyperpressure (in entrails of a space body) represents ideal conditions for formation of "minihydrogen" - neutrons at the expense of loss by an electron of an angular momentum on a screw trajectory, and for formation of pair the neutrino - antineutrino is necessary not enough for energy. Then at rather low temperature the process is possible:  $p + e \rightarrow n + \nu$ . Further neutrons can form with protons deuterium and tritium. The neutron is capable directly to react with tritium with formation of helium:  ${}_1T^3 + n \rightarrow {}_2He^4 + e^- + \bar{\nu}$ . The freed electron with a positive proton again will forms a neutron and the cycle is repeated.

Birth of a new star and transmutation of a solar System into a system of a binary star, as the majority of the neighbors on a Milky Way, will be such catastrophe for life on the Earth, which one it will not pass. "Not all stars are individual, as our Sun. Apparently about 80 % of stars enter in double or even more composite sidereal systems". K.P. Belov, N.G. Bochkarev, Magnetism on the Earth and in space, "Science", M., 1983, page 142. It is possible to judge scales of such catastrophe on stationary to flashes of new stars in our Galaxy. In binary stars, the junior partner, most likely, represents a former planet "jupiter" of group in the second quantum condition, or even in first, if the higher companion is not too hot.

Here there will be a pertinent one remark. It is possible to show, that a space body the having mobile core (fluid or gaseous), at proper rotation in a current of traffic on orbit, should have a varying magnetic field, the amplitude and frequency of oscillations which one depends on viscosity of a core (temperature) and its electrical conductivity. At low viscosity and high electrical conductivity (heat of entrails) there are any more oscillations, and polarity reversal of magnetic poles by a inverting on 180° magnetic dipole of a star or planet, as we it apparent for the Sun to what is connected its magnetic activity with a complete cycle 22 years (magnetic dipole is overturned in 11 years). The same phenomenon we should watch for Jupiter, Saturn and other planets jupiter of group. The magnetic activity of Jupiter is already detected, and it is an indication of a fast flash. "As follows from the analysis of propagation of seismic waves in entrails of the Earth, the core it is in a liquid state. The physical conditions there are those, that a core electroconductive... As follows from the paleomagnetic data, geomagnetic dynamo works in a unstable mode and results in considerable oscillations of a field during the order 10<sup>4</sup> years and occasionally to change of a sign of a field". K.P. Belov, N.G. Bochkarev, Magnetism on the Earth and in space, "Science", M., 1983, page 112. Therefore, the control behind a condition of magnetic activity of Jupiter will allow forecasting time of its transmutation in a star. "Some astronomers are inclined to consider Jupiter not as a planet, and extrasmall self-maintained star, meaning own radiation of a planet in a radio-frequency range. As have shown estimations, at the expense of own radiation in a radio-frequency range Jupiter loses three

times more energy, than receives it from the Sun". V.G. Demin, *Destiny of a solar System*, "Science", M., 1975, page 20.

Apparently, that the solution of this problem is most actually for mankind, to wait for a natural course of world development already there is no time, allowing, that the embodying grandiose of the project in a history of mankind is necessary. The small chance of saving is "to set fire" to Jupiter by a thermonuclear charge at favorable arrangement of heavenly bodies so that outbreak of matter has taken place on tangent to orbit of Jupiter, instead of it is radially, that is necessary to expect at a natural course of world development. There is still small consolation, allowing slowness of our society, that the flash of Jupiter will be provoked by hit in it of rather large comet is a natural course of world development and the drop direction with a high probability should be favorable for us, that will not tell concerning arrangement of heavenly bodies in this moment.

In connection with enunciated, logical the following scheme of evolution of stars is represented. Everyone protostar represents a cold space body with a satellite system "earth" and "jupiter" of groups. In process of accumulation of a hydrogenous material, the entrails protostar are warmed up, and their viscosity sharply drops, and the electrical conductivity grows. There is at first pulsatory magnetic field, which one shortly before of a flash protostar varies already with a polarity reversal of magnetic poles, i.e. there is a magnetic activity. Because of intensive increase of mass protostar, its planetary system also is intensive evolves and has no time to receive a stationary state, especially terms "jupiter" of group (as for Jupiter). At reaching some critical mass on protostar are forms conditions for thermonuclear process and there is a grandiose flash, thus the new star dumps, approximately 10 % of mass in space. The star will be formed, the further evolution by which one are bodily determined by receipt of a hydrogenous material from the outside. If the decrease of matter at the expense of reaction and "sidereal" (in our case solar) "of a wind" is compensated by receipt, the star is in a stationary state from a stationary value by brightness. A main condition for this purpose is the uniform distribution of hydrogen on a sidereal way. The small clouds of hydrogen calling chromospheric flashes do not change by an essential fashion a mean picture. Here it is time completely legibly to formulate latent, dragged through by the author heretical thought that the thermonuclear processes feeding by energy a stars, are committed not only inside them, as it is accepted to consider, and outside, in a chromosphere and corona. Explanations of behavior of pulsatory stars also need thermonuclear process outside of a star. "The calculation displays, that due to this the thermonuclear reactions of a star appear inefficient concerning excitation of its natural oscillations. It's quite another matter, if the nuclear reactions flowed past on a periphery of a star, where the amplitude of natural oscillations is great. Basically such layering sources of a nuclear power can exist. For example, in center of a star hydrogen could already "to burn out", whereas in a peripheral layer it was still kept, and the combustion it here serves a power source of radiation of a star, simultaneously exciting its oscillations. Therefore, strong non-homologous of normal oscillations of a star urges to refuse any "central" mechanisms of excitation of its oscillations and to search for mechanisms, the activity which one would be localized in peripheral layers". *Physics of space*, "Soviet encyclopedia", M., 1976, page 457.

Let's return to evolution of stars. If it is not enough of hydrogen, the star is chilled, and if the concentration it is non-uniform, the activity of a star permanently varies. Helium, forms as a result of thermonuclear process, and other elements "are stored" in a body of a star. In the same way there are evolution and planets "jupiter" of group of each star and, if the space material suffices, satellites "jupiter" of group of planets "jupiter" of group etc.

Here it is necessary to understand, why inside planets temperature up to such degree is increased, that becomes to possible origin of a magnetic field of a planet, with all evidence showing, that the entrails of a planet incandescent, fluid and have a high electrical conductivity. After study of the chapters dedicated "elementary" particles and photons, the reader, probably, was convinced that space is pierced a neutrino not only that will be formed in known now processes (beta decay of nuclei), but forms the broadest energy spectrum, as we it apparent for photons. Naturally, that absorptivity by matter these neutrino is various. Therefore space bodies, since some critical mass (dependent from chemical compound) are capable rather intensively to immerse flow a neutrino of large energy, that results, on the one hand, in heating entrails of a space body, and on the other

hand, to increase of its mass from inside, since just a neutrino and antineutrino will forms matter.

References:

1 <http://www.new-physics.narod.ru>