

# Compression of the Universe. Big Bang of the Universal Body and Divergence of the Universe

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## Abstract.

In given article is open, that the Universe not only spreads by from the Big Bang, but also compresses by, forming the united Universal Body. The article expounds the cause of compression of the Universe, the cause of the Big Bang of the Universal Body and the cause of the accelerated divergence of the Universe.

The given article is a part of my project "Real theoretical physics on basis of existence of ether". According to the new theoretical physics the initial particles are mats, which form the ether and the elementary particles.

## 1 Compression of Universe and Formation of Universe Body

Since the ethermats in intervals between collisions have rectilinear motion, then the ethermats can extend infinitely far beyond the Universe, consequently the ether is infinite as well as emptiness. The space ether between Galaxies is less dense, but their ethermats has a greater average velocity of motion than between gravibodies inside of the Galaxy, and the ether between the Universes of infinite space is even less dense, but their ethermats has greater average velocity than between Galaxies, because ethermats in space between the Universes reach ultrahigh acceleration and an impulse due to the rare collisions. Ethermats, which get in the Universe from other Universes through almost infinite distance between these Universes, is called *outuniversal ethermats*. Due to the outuniversal ethermats, the strength of momenta of ether in the direction in the Universe is more than in the direction from the Universe. A ethereal field, which form by outuniversal ethermats, is called *outuniversal field*. The outuniversal field stronger on edge of the Universe than inside of the Universe, because the outuniversal ethermats at passage through gravibodies reduce the velocity of motion and accordingly reduce the impulse.

Since the strength of momenta of ether on edge of the Universe in the direction to the center of the Universe more than in the direction from the Universe, then the Galaxies at an exit from the ether of the Universe will get in space, where acts the outuniversal field.

As a result acting of the outuniversal field the Galaxies decreases their velocity and begin to move back in the Universe with increasing their velocity. Then a part of Galaxies of the Universe will move from the Universe to outside, and a part of Galaxies will move in the opposite direction. In this case there can be collisions of Galaxies and their changes. As a result of process of convergence of Galaxies, they appear in the gravitational fields each other, due to that the orbital systems of gravibodies changes and there can be a collisions of gravibodies with formation of larger gravibodies.

Thus, in process of approach of Galaxies to the center of the Universe, occurs a forming of united Galaxy of Universe, which gravitational field will have so big strength, that the orbital systems of the central part of Universe will cease to act and all gravibodies of the united Galaxy of Universe will be are attracted to each other, forming the united Universe Body.

## 2 Structure of Universe Body

Gravibodies which form the Universe Body, have different density. Hot plasma of gravibodies can merge with each other under the influence of Universe gravifield. Supergravibodies (black holes) have a dense matic crust which at collision breaks on multitude of parts which represent supermats. Atoms and elementary particles under the influence of Universe gravifield disperse on separate mats, forming matic plasma of the Universe Body. Creasing of dense of the Universe Body occurs only to certain depth as ethermats Universe gravifield cannot pass through all mass of the Universe Body. Therefore in the central part of the Universe Body the ether cavity is formed, which is called as the central cavity. In process of increase in the Universe Body, the strength of the Universe field, representing gravifield of Universe Body, increases. Accordingly the force of compression of the Universe Body is increasing, due to that the surface part of the Universe Body is compressed, forming matic crust from separate mats which are in constant contact with each other. The matic crust of the Universe Body have bigger thickness than at black Gravibodies. Ethermats, which get from the surrounding Universe on the Universe Body, joins to matic crust of the Universe Body. Ethermats (spheremats) at collision with the matic crust break up into two mats which turn over before the greatest consolidation with a surface. Thus the matter of supermats and matic crusts of supergravibodies represents multitude of mats which are in contact with each other and which cannot disperse.

In plasma of the Universe Body constantly occurs a rounding off of mats and accordingly a formation of the ether, which leave to the central cavity, and due to that there the strength of momenta of the ether is increasing. Thus from within the Universe Body act an ether field directed to outside. The ether field of the central cavity is directed from the centre of the Universe Body outside, due to that this ether field is called *antigravitational*

*field* inside of Universe Body.

### 3 Big Bang of Universe Body

concentration of ethermats antigravitational field of Universe Body is more than the concentration of ethermats of gravitational field of this Body, therefore the strength of antigravitational field can be more than the strength of gravitational field of Universe Body. Since in the central cavity of Universe Body constantly occurs an rounding off of mats and accordingly an increasing of strength of the antigravitational field, then in this cavity constantly occurs an increasing of the pressure and her expansion at consolidation of mats plasma. When the strength of the antigravitational field of Universe Body becomes so big, that the strength of the gravitational field of this Body cannot keep the pressure from within the Universe Body, then occurs a Big Bang of the Universe Body.

At the Big Bang of the Universe Body all matter of this body scatters in the direction from the centre of the Universe Body extensively. The matic crust of the Universe Body breaks on multitude parts which represent supermats. Ethermats of the Central cavity is scattering from the Big Bang in the Universe, increasing density of the Universe ether. Ethermats of the Universe ether at collision with new ethermats change their direction and velocity of motion, due to that the strength of the Universe field after a Big Bang decreases. The strength of the Universe field decreases also because that the matter of the Universe Body is dissipated.

The released plasma is moving and extended in more volume of Universe. Theirs longmats and also less mobile ovalmats under the influence of the Universe ether are formed elementary particles, atoms and molecules. And on the basis of supermats are formed gravibodies.

### 4 Formation of Galaxies and their Divergence in Universe

Gravibodies which were gradually formed after the Big Bang of the Universe Body had different mass and were in gravitational field each other, due to that they could form different orbital systems which had herewith also a general direction of motion from the center of the Big Bang. Gravibodies, which were not a part of the Universe Body, at approaching with new gravibodies after the Big Bang have formed new orbital systems.

At removal from the center of the Big Bang, is increased the distance between orbital systems which had smaller strength of gravitational attraction, and therefore were formed the separate orbital systems which have been not connected with each other, thus Galaxies of new Universe were formed.

Divergence of Galaxies of the Universe occurs to acceleration, due to that the Galaxies which situated further from a place of the Big explosion, have greater velocity of motion than the Galaxies which situated more close to the place of the Big Bang. It occurs due to that that further from the center of the Big Bang, the density of an ether decreases, and due to that the limit velocity of motion of gravibodies are increasing.

Since Galaxies move mainly radially to all the sides from the center of the Universe, and because the velocity of the Galaxies more removed from the center of the Universe, is more than the less removed, therefore the Galaxies are leaving from each other in all directions.

Elementary particles (photons, electrons, protons), and also the bodies which are moving outside the Universe, disintegrate up on separate mats, because between the Universes is very small concentration of slow ethermats (ovalmats), which pushes the longmats of elementary particles to each other, keeping stability of elementary particles.

But the gravibodies, which are leaving from the Universe, return back in Universe, because the outuniversal ethermats acts on supermats of the gravibodiesand, pushing they in direction of centre of Universe. Due to little concentration of outuniversal ethermats, they do not acts on elementary particles and bodies.

The Universe consists of so plenty gravibodies, that despite of significant distances between them, the projection of all gravibodies the Universe on conditional plane should be almost continuous. Proof of this is the snippets of gamma-rays, which gets to the Earth from different directions from periphery of the Universe, as the gamma-rays from remote gravibodies absorbs by others gravibodies, being on a way of these gamma-rays.

Minigravibodies (planets) can remain in the new Universe after destruction of the former Universe. It is possible to explain by that, that at approach of the Galaxy to the Universe Body, the orbital motion of gravibodies of this Galaxy is broken. Since the minigravibodies have considerably smaller mass than others gravibodies of Galaxies, then the minigravibodies are moving with a smaller velocity to the Universe Body than others gravibodies. As a result of it these minigravibodies can not be absorbed by the Universe Body before its Big Bang.

That, that minigravibodies can remain in space and are not destroyed by the Universe Body finds confirmation and in Book Moses, where it is described, that the Earth was without light, i.e. moved by in space alone far from gravibodies. And when the God has seen a suitable gravibody, which the God has named the Sun, the God has corrected the direction of motion of the Earth that it became the satellite of the Sun. Only after that the God has said words: "And it was so". Probably using minigravibodies, the God provides His eternal existence and can rescue mankind from the Universe cataclysm.

## Conclusion

1. The Big Bang of the Universal Body accompanied by the formation of the divergent Universe occurred due to the fact that the strength of the intensity of momenta of the ether inside the ether cavities of the Universal Body became greater than the intensity of moments of the outer ether directed towards the Universal Body.

2. The divergence of the galaxies of the Universe occurs with acceleration, because at greater distances from the center of the Universe(the site of Big Bang) the lesser density of ether of Universe, and accordingly lesser the ethereal deceleration acts on the gravibodies.

3. The compression of the Universe into a single Universal Body occurs because of the fact that the intensity of momenta of the outuniversal ether in the direction towards the center of the Universe is higher than the intensity of momenta of the outuniversal ether from the inside of the Universe to the outside.