

Universal Hierarchy of gravitational fields. The creation of the unit of time and mass in each field

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After the development of all previous theories, we are in a position to understand the functioning of the universe. The above mentioned theories ranging from a new theory of relativity to non-curved space, the universal gravitational new variable, the variable magnetic permeability of vacuum, etc.

The Universal structure

The whole universe is based on hierarchical gravitational fields.

While hierarchical, each field has a kinetic independence with regard to the fields to which it is subject.

Independence in the sense, that the center of mass for the field is the center of reference. This is because of the field move the same speed of the center of mass of bodies that generate, can thus be considered that the field is stationary in the center of mass.

From a physical place the center of mass is stationary, it is the center of reference.

In the physical location of the field, the masses of the hierarchical gravitational fields, only interfere with the standard definition of time and the mass pattern of this field.

Fields promote a hierarchical gravitational pure potential mass, homogeneous in the subject field. This homogeneity is found practically unchanged throughout the field and on their way of translation.

The density of potential energy is constant, and speed of translation is also constant.

This uniform density of potential energy and speed that moves the field are the defining characteristics of the time and pattern of the mass field.

As such, any variation of the density of potential energy in the field is caused by the mass generating the field, is the density energy potential of the local mass and the speed that will make the place significant changes found in various parts of the field.

In default of an entity resident of the area of generating mass is modeled either by the density potential energy generated by the mass to its surface, or the speed of rotation on the surface of the mass

Where:

$-l$ — On the local

$-o$ —The homogeneous potential subject of the field.

V_l — Speed of displacement of center of mass, velocity of translation caused by the field that is submitted.

ρ — Density of potential energy.

$$\rho_l = \frac{M_l}{R_l} + \rho_o$$

$$\frac{G_l}{G_o} = \frac{\rho_o}{\rho_l} \frac{C^2 - V_l^2}{C^2}$$

$$\frac{t_l}{t_o} = \sqrt{\frac{G_l}{G_o}} = \sqrt{\frac{\rho_o}{\rho_l} \frac{C^2 - V_l^2}{C^2}}$$

The influence outside the field, does not promote major changes in kinetics in the field, because as we saw the pure potential of mass and speed across the field caused by the field officers, are almost constant.

Yes interfere in the pattern of unit of mass and time.

The bending of time under the action of a gravitational field has been studied in a separate article already published.

As the concept of mass and velocity, are related to local time, with the local perspective of the universe, then generally we can consider that a field of level i, we have:

$$\frac{G_{li}}{G_o} = \frac{\rho_o}{\rho_1} \frac{C^2 - V_{l1}^2}{C^2} \frac{\rho_1}{\rho_2} \frac{C^2 - V_{l2}^2}{C^2} \frac{\rho_2}{\rho_3} \frac{C^2 - V_{l3}^2}{C^2} \dots \frac{\rho_{i-1}}{\rho_i} \frac{C^2 - V_{li}^2}{C^2}$$

$$\frac{G_{li}}{G_o} = \frac{\rho_o}{\rho_i} \frac{C^2 - V_{l1}^2}{C^2} \frac{C^2 - V_{l2}^2}{C^2} \frac{C^2 - V_{l3}^2}{C^2} \dots \frac{C^2 - V_{li}^2}{C^2}$$

At the Earth's surface:

$$\rho_{Terra} = \frac{M_{Terra}}{R_{Terra}}$$

V_{Terra} - Speed of rotation of the Earth

As we have seen previously, we have:

$$\frac{G_{Terra}}{G_{Centro Terra}} = \frac{\rho_o}{\rho_i} \frac{C^2 - V_{l1}^2}{C^2} \frac{C^2 - V_{l2}^2}{C^2} \frac{C^2 - V_{l3}^2}{C^2} \dots \frac{C^2 - V_{li}^2}{C^2} \frac{C^2 - V_{Terra}^2}{C^2}$$

Conclusion

- The center of reference is always the center of mass of the gravitational field in which the phenomenon occurs.
- All offsets are measured with respect to this point, the reference center.

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