

# The Structure and Composition of Cosmic Background

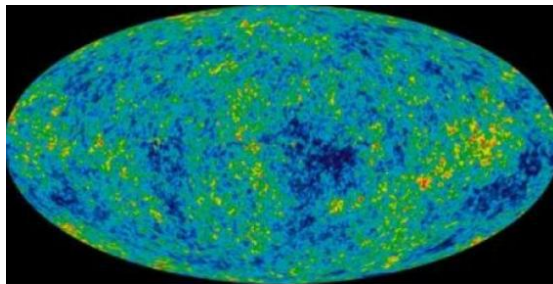
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Abstract: giving a viewpoint about the structure and composition of cosmic ontology

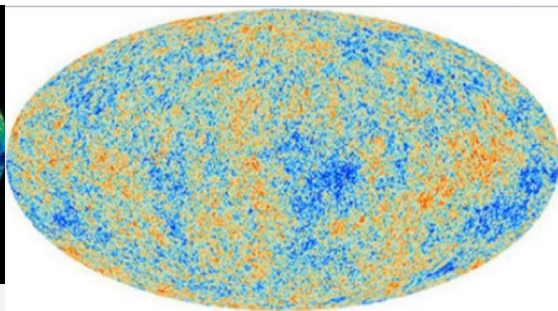
## Main viewpoints, evidences and conclusions:

Physicists believe that the Universe's vacuum space is not empty at all, there should be exists substance, and have put some models even the theories corresponding with these models that regards to the substance, such as Aether, Dirac sea, Dark matter and Dark energy, etc. Same time, because of this subject involves the origins of space and time, the structure and evolution of the Universe, and the nature of gravitation, so, it is always an important topic in physics and cosmology since it has been proposed.



The detailed, all-sky picture of the Cosmic Microwave Background in the infant universe reveals 13.77 billion year old temperature fluctuations (shown as color differences) that correspond to the seeds that grew to become the galaxies.

*Credit: NASA/WMAP Science Team*



"Planck"-created map of the cosmic microwave background.

*Credit: Illustration ESA and the Planck Collaboration*

The vacuum space, first of all and us known, is means nothingness, and inside the space, there be -- everywhere is the same and everywhere is naught of the density of matter; natural frequency is naught and therefore the energy levels (energy density) is naught. This kind of space which without matter existence unable to absorb, emit and reflect the light in any frequencies above naught; and unable to produce any energy levels and any forms of radiations that energy levels above naught.

Moreover, if the Universe spaces are all vacuum and nothingness in addition to galaxies and celestial bodies, then would be there exist no any microwave radiations produced by cosmic background which has been observed and measured. Contrary, in fact, there be exists radiations (cosmic microwave background) in everywhere of the universe and it shows there existing matter but not nothingness in the Universe spaces in addition to galaxies and celestial bodies, and the natural frequencies (energy levels) of the matter should belongs to microwave's frequency band (energy levels interval).<sup>[1][2][3]</sup>

The universe and galaxies originate in from neutron stars, and are the results of the attenuation and decay of the neutron stars (a neutron star = neutrons + huge amounts of thermal energy = protons + electrons + neutrinos + huge amounts of thermal energy; and it has the structure which similar to the internal structure of a pomegranate and each neutron is a pomegranate's granule).<sup>[4][5]</sup>

Along with the attenuation, decay and fission of the neutron star, very huge amounts of neutrons, neutrons clusters and neutron star's clumps have been also released and generated. The neutrons directly decayed into hydrogen atoms by released neutrinos; the all neutrons clusters that with different number of neutrons decayed into different kind of atoms --  $Z\pi$ -mesons were released from the  $N$  neutrons cluster,  $Z$  neutrinos escaped, and  $Z$  electrons formed into the extranuclear charges in form of an multi-density spherically shaped charges body of the nucleus (the neutrons cluster after decayed); the neutron star's clumps into the states of decay or proliferation by the conditions and circumstances which they are in.

The neutrinos which released of the decay of the neutrons, neutrons clusters and neutron star's clumps, cohesion together and became into a whole body--cosmic background also is the cosmic ontology and in an ellipsoid state and body at Bose-Einstein condensate, and neutrinos (cosmic background also is the cosmic ontology) is a kind of bosons which with the property of that contract when is heated and expand when is cooled, namely, cold expansion and contraction. <sup>[6]</sup>

And the galaxies, celestial bodies and all matter in the universe only are the presence of energy and matter inside this Bose-Einstein condensates body. <sup>[6]</sup>

## References

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<http://vixra.org/abs/1609.0392>
- [5] *The structure, properties and parameters of nucleons*  
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