

Cosmology based on measured Data and Observation

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We have in physics measured data and calculated data. For example, measured data is that the universe has a Euclidean shape. NASA has measured back in 2014 with very high precision that universal space has a Euclidean shape. Calculated data is, for example, the age of the universe which was not measured. We have to understand that measured data are superior regarding the calculated data. Both are “scientific data”, but we have to trust more measured data.

Infinity and Euclidean shape of the universal space are fundamental data that will lead us to the right model of the universe. Imagine you take a fast spaceship and you travel in a direct line. You will never come back to the same place. You will travel for eternity and you will always have the same view: galaxies in the vastness of universal space. We call this in cosmology “cosmological principle”: in every point of the universe, the sight is the same.

We know for more than 100 years, that time is the numerical sequential order of events. Einstein told us: “There is no other time than the order of events by which we measure it. Past, present, future are stubbornly persistent illusions”. This means that change runs in space only and time is the numerical order of events. When we measure them, we get the duration of a given event. Universal space is time-invariant, the cosmological principle is time-invariant.

The entire idea of some initial explosion of the universe is false. Universal space is the non-created primordial energy of the universe. In almost every galaxy we have in the centre a huge black hole. In these black holes old matter is transforming back into the fresh energy in the form of elementary particles. Black holes are rejuvenating systems of the universe. The entropy of the universe is constant. The universe is eternal. This is close to Asian thought. TAO as the flow of the universe is eternal.



Yin is the energy of universal space. Yang is the energy of matter. These two energies are continuously transforming one into another. Black holes are transforming matter back into the energy of elementary particles which are structures of space energy. These structures are gorming into the matter. The fluctuation of the energy “matter – black holes –

elementary particles – matter” is eternal. The jets of elementary particles out of the centre of black holes have been directly observed.



CMB (cosmic microwave background radiation) is not radiation coming from some remote physical past. CMB is the radiation of existent universal space. The universe is not expanding. “Redshift” of the light coming from distant galaxies is the result of what Swiss astronomer Zwicky has called “tired light” effect. Light when pulling out of the strong gravity field of galaxies is losing some of the energy, the result is redshift.

Big Bang cosmology belongs to the history of physics. The Eastern thought of eternal TAO is the expression of the wisdom which is far superior to Biblical idea of creation of the world and far superior of the Big Bang cosmology which also predicts a beginning. TAO is eternal and what is eternal cannot have a beginning.

Stephen Hawking has predicted that the universe has started from the mathematical point. NASA has measured that the universe is infinite. How a mathematical point that has no dimension could extend into infinite space of the universe nobody has an answer. From where all the energy of the universe came in the hypothetical explosion also there is no answer. Big Bang cosmology is not falsifiable (Karl Popper), it is not bijective (A.S. Sorli). Maybe 50 years ago it was an interesting idea. Teaching this theory today at universities seems not right. The universe as a system in a non-created permanent dynamic equilibrium is more appropriate and in accordance with all measured data and observation.

Sources:

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