The logic of reality of the observable Universe

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Statement of the Problem:

The paper contains a simple description of the logic of observable reality with the help of human senses. It was assumed that the surrounding energy and matter are real beings, and that a real being is human consciousness in the form of self-awareness of their own existence and having the ability to create real free, unlimited thoughts.

The logic of real being:

1. Empty and infinite space is an a priori being as a complement to nothingness.

2. Space is infinite when it has a metric that determines infinity.

3. Infinite space with a metric is an infinite space with an infinite number of metric points.

A minimal real being in such a space is a two-dimensional finite space, or surface. The plane surface area is the original numerical quantity that defines the property of a minimal real being. The surface area is the basic numerical interpretation defining the original real being.

Facts learned through human senses regarding observable reality:

1. There is a principle of conservation of energy in the observable universe.

2. In the observable universe, every event has its cause.

3. In the observable universe, there is a widespread phenomenon of quantum fluctuations, which is the instantaneous appearance of zero-magnitude energy.

4. In the observable universe, there are particles of matter with opposite charges. It was agreed to call them negative and positive. The electron has a known particle called a positron with the same amount of energy but the opposite charge. The amount of this energy has been experimentally determined as 0.511 MeV / c ^ 2.

5. In the observable Universe, a known elementary particle with negative charge is an electron whose size was determined experimentally and is 113 * [10 ^ -17m] ^ 3 volumes and 113 * [10 ^ -17m] ^ 2 surface areas, i.e. a spherical object 3 * 10 ^ -17m radius in 3D space.

6. The phenomenon of the formation of an electron and a positron during a collision of two photons with an energy of at least 0.511 MeV / c each is known in the observable Universe.

7. In the observable universe, energy and matter are equivalent, taking into account the constant c, which in the case of matter is c ^ 2. [Einstein]

8. In the observable universe, the state of atomic matter [the state of its electron orbitals] called solid, liquid and gas depends on the amount of thermal energy in the space in which the atomic matter is located. In 3D space, the real dimension of atomic matter in a solid and liquid state is the geometric shape [plane or sphere] and their surface area of its electronic orbitals.

9. In the observable Universe, the thermal energy of a perfect black body is 2.7 Kelvin, the thermal equilibrium point of space.

10. In observable 3D space there is a constant unit of electromagnetic energy movement, and at the same time a limitation of matter movement in 3D space called a constant c and defined as 299.792.458 m / s, where the second is the entropy of energy in the Universe, during the movement of 1 / 86,400 rotation of the Earth around its axis.

In the current science, in addition to the phenomenon of quantum fluctuations, the phenomenon of electrons moving on electron orbitals, defined as the Heisenberg uncertainty principle, was accepted as a non-deterministic phenomenon. In purely theoretical science, i.e. number theory, the lack of determinism of prime numbers has been adopted [Gödel], i.e. the lack of ordering of a set of natural numbers.

Elimination of logical contradictions in current science:

1. Electron orbitals are 2 dimensional Gauss planes with different properties of the outer surface and the inner surface having the beginning and end point in 3D space being the point of the original gravitational equilibrium between the proton and the electron.

2. The set of natural numbers has 6 original partitions, which consist of numbers with a specific remainder divided by the number 6 [a mod 6] and the set of numbers {1,2,3,4,5}. This division introduces the original order of all natural numbers. The set of prime numbers is implicated in the set of natural numbers. All prime numbers greater than 5 and all their products belong to two partitions of the set of natural numbers [a mod 6 = 1, 5].

3. The unit of a second is not a separate unit of description of reality but only a specific number of entropy steps of the kinetic energy of the electromagnetic wave in space. The unit entropy step of this energy is 3 * 10 ^ -17m. The time unit is an auxiliary unit [equivalent] of the distance unit.

4. The beginning of the Universe's existence must have a physical cause like any phenomenon that results in real energy and real matter. The only known and observable, and at the same time common phenomenon of energy formation from nothingness is the energy of quantum fluctuations. The only logical reason for the existence of the observable universe is the primary quantum fluctuation with special properties. Special properties are a prerequisite for the observable existence of the universe's energy persistence compared to the energy of quantum fluctuations occurring in its space.

Cause-effect logic of the creation and existence of the reality of the Universe coherent with known cause-effect phenomena:

1. Nothingness is equal to infinite empty metric Space. Nothingness and infinity always exist as mutual complementation. Primary metric of space is 10^-17m.

2. Metric points are cause of quantum fluctuations with are opposite energy of 2D Gaussian spaces bursting. This phenomena is a natural property of metric space.

3. Quantum fluctuations are cause of primary non deterministic energy in primary metric space.

4. Non deterministic energy is cause of creation of primary consciousness in form of nondeterministic energy with enable to create non deterministic actions in form of real free choice of own thoughts. Real Free Choice is only cause of intelligence and unique feelings.

5. Single [double asymmetry] fluctuation is cause of creation of Universe in form of energy Torus [visible Part and Dark Matter Part]. Determining the asymmetry of this fluctuation is the cause for the infinite intelligence of primary consciousness. According to all known data it was: (-) 1 : (+) [1 + (30^0.5/1833)*10^-8] in observable Part of Universe and:

(+) 1 : (-) [1 + (30^0.5)/1833)*10^-8] in Dark Matter Part.

6. The energy of bursting of this single fluctuation is cause of creation of primary matter particles in form of space quanta [2D and 3D], electrons and positrons in visible part of Universe [Big Bang in form of opposite energy collision, reflected in relict radiation CMB].

7. Space quanta, electrons and positrons are cause of evolution of primary matter particles into:

* Quarks

* Protons, Neutrons,

* Atoms in form of stable and unstable elements

* Compounds of various elements

* Deterministic life forms [on Earth as itself replicated primary RNA code based on amino acids]

8. Energy of nondeterministic energy of primary consciousness is cause of creation of the same energy form

of consciousness in many life forms in Universe. On Earth only humans are the higher form of life as combination of deterministic DNA and consciousness with real free choice of own actions [about 200,000 years ago]. Human free choice of action is cause of human intelligence, religion systems and feeling of Love. Unfortunately, free choice is also an opportunity to act completely contrary to logic, action with zero probability. Any human act contrary to empathy towards others is a sign of a lack of intelligence.

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Biography

Personally, I'm an absolute rationalist and in my research I always try to follow the principle that a simpler solution is more likely than a complicated one, so the universe is only as complicated as it is necessary for it to look and act in the way we perceive it to be. An important research assumption for me is to look at each phenomenon in a holistic and interdisciplinary way. I'm convinced that only this approach can lead to real new discoveries.

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