

## Greatest Blunder in Theory of Inflation Out of Quantum Fluctuation

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### Commentary

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### COMMENTARY

The debate over the medium of propagation of light waves and existence of Aether was the bone of contention in physics community for a long time. Newton believed in universal omnipresent Aether is the stage of all dramas of reality in absolute time following some natural laws which Newton himself formulated in the laws of motion in the broad mathematical analysis through calculus. When we understood  $\text{FORCE} = \text{MASS} \times \text{ACCELERATION}$ , Modern physics was born. He gave the gravitational description by a simple formula  $F = \frac{GMm}{r^2}$  accepting no knowledge of mechanism. But with that equation we calculated the motion of stars and it was a great triumph in human understanding.

Michelson and Morley then conducted an experiment on a lab table for measuring the aether wind which resulted a null result and Einstein jumped into a conclusion of no aether theory to assume the light speed maximum constant and non-varying from all reference frames by simple trick of Lorentz transform rejecting commonsense Galilean transform to establish relativity theory. Astronomers then tried to understand the precession of mercury and relativity theory was seen true. The bending of light was also verified by astronomers certifying relativity and gravity theory of Einstein.

Scientists were busy in discussing the actual meaning of light speed if it is wave or it is a particle as Newton prescribed in corpuscular theory. Then the photoelectric effect was soon very nicely explained by Einstein utilizing quantum effects of light waves with the imaginations of photons. Scientists then came to understand the duality nature of reality in wave-particle duality. But some scientists were baffled by double slit experiment showing light waves but again photoelectric effect showing particle and the exact meaning of collapse of wave function when observed in double slit experiment. What is going on is a big question even today with the delayed choice quantum eraser as well as quantum entanglement phenomenon. The simple result of relativity theory was the space contraction, length contraction, time dilation etc. Now three dimensions of space along with time dimension converted space-time as a medium in it rejecting ether in absolute space and time as prescribed by Newton.

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Scientists were happy as all of the reference frames are relative to each other as there is no absolute reference frame in our universe.

Everybody was happy to see that is exactly happening in experiments and observations. No need of any absolute concepts. Einstein with more imaginations soon made the space-time a flexible medium replacing aether for a dynamical topology of curvature where matter glides to appear as gravity. No need of considering gravity as a force and no need of explaining mechanism. This is what was explained by Plato in his ALLEGORY OF THE CAVE. story.

Illusion and a relativity theory of illusion certifying the magic all around and there is no question of asking the reality. Cave dwellers are in a cave seeing the reflections of reality in a virtual world where no absolute exists, no simultaneity, time in atomic clocks changes with gravity and speed of reference frames and that is what exactly happening in GPS systems. But what is the real meaning of time as well as speed of light was not clarified in modern physics. Probably M M experiment was the reason for Einstein to go ahead with light speed maximum constantcy in all inertial frames postulate in his relativity theory. Then we know laws of conservation was known to scientists and Einstein further assumed that laws are same in all reference inertial frames.

But a question remained to be clarified for changing ticking in atomic clocks in reference frames though the laws are conserved. So a natural question comes about the assumption of his second postulate regarding same laws on all reference frames. Therefore we clearly see a theory deviating from reality to explain the illusions as explained by Plato in his cave story. It is true that all cosmic observations were explained by relativity theory and it was a great success. Then even Einstein started saying time is an illusion and space is an illusion.

Under the circumstances, quantum physics was taking shape with Rutherford atomic model and quantum concepts of Planck. Then again why the electrons stay in orbit without diving in the center was a problem. Broglie suggested matter wave to explain and soon it was proven by experiment that electron is also a wave was confirmed by scattering electrons through crystal.

It was a great idea to explain Bohr model. Soon SCHRODINGER developed his wave equation for the matter but what is waving and how it is waving was a big question. No body understood the equation when BORN arrived with a probabilistic interpretation to solve problems but wrong realistic understanding. Copenhagen lobby was very happy with the ideas of wave-particle duality and collapse of wave function on observation, super position and cat dead and alive at the same time etc.