

Abstract Submitted
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Measurement Can't Influence the Nature PANKAJ SINHA, Indra Gandhi National Open University — Science does not govern the nature rather it has been laid to describe the various facts of the nature. This straightly leads us to state some “categorical” facts/clarification about the nature. 1) The speed of light (even in vacuum) has not the same constant value in each frame of reference. It encourages us to think uniformity of physical laws in all inertial frames, constancy of speed of light and/or Maxwellian laws of electromagnetism are incoherent. 2) All natural processes do have same consequences in all inertial frames of reference. It's only law of Physics which may have different-different forms depending on frames of reference. 3) Measurement can't influence the natural processes...! Different measurements after all can be considered only as different rates of the happening of the nature. 4) Kinetic Energy of a particle is same in each inertial frame of reference and is “truly” defined by classical mechanics. The total energy of a particle is defined as $\mathbf{E}_i = \mathbf{K.E.} + \mathbf{P.E.} + \mathbf{Work\ done}$ 5) Energy and entity of a particle are equivalent, i.e., they are just two modes of existence - in a particular sort of conditions we see a particle existing in forms of energy or with entity-features or in both. We strongly feel that the postulates of ‘Special Theory of Relativity’ are totally wrong and only “willful” assumptions.

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