



Physics Needs New Foundations: Special Theory of Relativity

Satish Malhotra

Abstract

Einstein understood the reality of space and time as spacetime with only one absoluteness— velocity of light; he never considered space and time as the flow of energy at par with light. If we consider space as a constant and consistent flow of gravity (which matter itself is creating and it having the same absolute velocity), the world view on space and time and physics changes drastically; the crucial explanatory change comes from the related fact that this flow of energy is also the creation and meaning of length, mass and time. Once these facts are agreed upon Lorentz transformation equation— velocities' relation to length, mass and time— emerge as a natural outcome, a law of nature. Laws of nature remains the same for all observers--those at rest and those in motion. The beauty that additionally blooms is that the two inertial motions can now be distinguished between. The result is clear, the problem of relativity of velocities is resolved within the mechanical framework of space (as an absolute flow); the natural meaning of length, mass and time, which is velocity dependent and as such is the reason for the existence of Lorentz transformation

Keywords

Free will versus determinism, Absolute space and time, Quantum gravity flow, Length, mass, and time are velocity dependent, Emergence of fundamental constants of nature, Lorentz transformation as law of nature