

# Review of: "A Study on the Absolute Stationary Inertial Frame and the Relative Velocity, Inertia Mass, Momentum and Kinetic Energy in the Inertial Frame moving relative to it"

Kestutis Pilkauskas<sup>1</sup>

<sup>1</sup> Kaunas University of Technology

Potential competing interests: No potential competing interests to declare.

The article concerns an interesting approach – the possibility of application of the concept of absolute inertial reference frame and based on it derivation of expressions of inertial, momentum, kinetic energy in a moving inertial frame. The speed of light and related with-it flow of time is touched. The evolution of thinking is clear up to the concept of exploding bomb in a moving frame. Eq.(16) gives the expression named “explosive kinetic energy” although this is conceptually well known expression of kinetic energy of a moving object through its mass and velocity. But explosive energy is the inner energy stored in the bomb which is released at the instant of explosion. Therefore, the concept of explosion is a bit confusing.

In my opinion it is impossible to prove whether such absolute inertial frame exists. But the assumption of such frame existence might be applied under certain conditions. In this case limitations under which the assumption gives the satisfactory results need to be analyzed.