

On the Derivation of E = mc2

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Abstract

Analysis is presented of the derivation in [1] of what is popularly known as E = mc2. It is emphasized that once a relationship, describing a phenomenon in the stationary system, is known exactly and with certainty, any theory that would derive a different relationship regarding the same phenomenon in terms of the same stationary system should be rejected out of hand.

Special Theory of Relativity (STR), Lorentz transformations, inertial mass equivalent of energy,

Keywords: simultaneity, First Postulate, Second Postulate, Second Newton's Law, energy of motion of the

electron

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