



$$E = mc^2$$

There are a number of arguments used to derive momentum and energy in SR. One method uses conservation laws. If there is no net force acting on a system, the total momentum and energy are conserved. These quantities are not conserved in SR, but are conserved when we take into account the relativistic effects of momentum and energy in SR.

When an object is moving at a constant velocity v , the energy and momentum are given by

$$E = \gamma mc^2$$

$$p = \gamma mv$$

where γ is the Lorentz factor given by

$$\gamma = \frac{1}{\sqrt{1 - v^2/c^2}}$$

which is the speed of light c divided by the speed of the object v , and comes from the Lorentz transformation. The

$$E^2 = (pc)^2 + (mc^2)^2$$

which is derived from the relativistic energy-momentum equation. These equations can be more conveniently stated using the

$$E = \gamma mc^2$$

which can be derived from the relativistic equation of motion (see below).

The relativistic mass m is the mass of an object at rest, and is related to the rest mass m_0 and the velocity v by

$$m = \gamma m_0$$

where γ is the Lorentz factor. This formula agrees exactly with the standard definition of

energy in the above formula for energy, and shows that when an object is at rest ($v=0$) and is at rest in a rest frame, energy

$$E = mc^2$$

This energy is referred to as rest energy. The rest energy does not cause any conflict with the relativistic theory, but since it is

finding the formula of this value, we can find it in reality, since it is only greater than or equal to the rest energy. This formula has been verified

from extra stored energy, which can be released by nuclear reactions, providing important information about the nature of the

Einstein And Relativity

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