



$$E = mc^2$$

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 in the rest frame of the system. The conservation of energy and momentum in SR can be derived from the conservation of energy and momentum in the rest frame of the system.

$$E = \gamma mc^2$$
$$p = \gamma mv$$

where γ is the Lorentz factor given by

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

and v is the speed of the object relative to the observer, and c is the speed of light. The Lorentz factor is a measure of the relativistic effects on time and space.

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

which is identical to the relativistic energy-momentum equation. These equations can be more conveniently stated using the four-vector notation.

$$E = \gamma mc^2$$

which can be derived by substituting the relativistic expression for momentum into the energy-momentum equation.

The relativistic mass m is a function of the speed of the object, and can be approximated using a Taylor series expansion, and one finds that

$$m = m_0 \left(1 + \frac{1}{2} \frac{v^2}{c^2} + \dots \right)$$

where m_0 is the rest mass of the object. This formula agrees exactly with the standard definition of mass.

Working with the above formula for energy, one finds that when an object is at rest ($v=0$) and is m_0 kg, there is a non-zero energy

$$E = m_0 c^2$$

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

large, the formula for E is not used in practice, since it is only useful for small v . The formula for energy is only useful for small v , since it is only useful for small v .

From extra stored energy, which can be converted by nuclear reactions, providing important information about the structure of the atom.

Einstein And Relativity

M Tight



Einstein And Relativity:

Decoding **Einstein And Relativity**: Revealing the Captivating Potential of Verbal Expression

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