

The inertia of the time

© Nillo Gallindo - Brazil

nillo.gallindo@bol.com.br

Abstract

Some physicists say, "The feet live longer than the head." Relativity agrees. It is due gravity act on the inertia of the feet's clock and head's clock. But there are other stories about speed and inertia. Do you know the new theory of "**relativistic inertia of the invariant mass?**" RELATIVÍSTIC INERTIA OF THE INVARIANT MASS MAKES WATCH SPIN SLOWER OR FASTER. This is relativistic inertia of time equation: **Rit = t / y** **Relativistic inertia of time is true name of time dilation.**

R i t = t / y **R** is relativistic, **i** is inertia, **t** is time at rest, **y** is Lorentz factor



EQUAÇÃO FATOR DE LORENTZ

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

If there is a body at rest or in motion the mass of this body is invariant, it does not change. The mass does not increase with increasing speed. If there is a clock attached to this body, the mass of the watch is also invariant even if the body is at a speed close to the speed of light, the mass does not change. But a phenomenon occurs, the greater the speed of the body make slower the clock if it compared to a clock at rest on Earth. Why?

The mass of the clock is invariant and continued the same but in the speed something has changed. High speed produced kinetic energy. As Einstein taught it is not only matter that has inertia. Energy also has inertia. The inertia of a moving body is greater than the inertia of the same body at rest. Inertia is a property of matter that makes a body resists changing its movement. So, it is the **relativistic inertia according to the speed** that slows down the clock spin. **How can time (t) have inertia?** It is because **time (t) is physical** and not imaginary as mankind thinks. **Time (t) is the measure of movement of a referential.** (This definition of time was God who did in Genesis 1:14). If it is "**measured**" it is physical. If time is physical it obeys the law of inertia. There are two things affect watch spin. Stronger gravity action makes the watch spin slowly. Less gravity makes the watch spin fast. This occurs in the clocks of the GPS system. In high orbits the watches spin faster due to lower gravity. **Also the speed** in the orbit is greater than the clock speed at rest on the ground. That is why corrections are made for the differences in gravity and speed to correct the errors that would exist.