

Does the Bible show Einstein's concepts of relativity?

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Abstract

Does the Bible show Einstein's concepts of relativity?

Yes, it shows some. The Bible shows:

The concept of time dilation and relativity;

The definition of time t;

What means time t and how to measure it;

$E = m \cdot c^2$ as equivalence of mass and energy totals of universe.

Well, of course you can see things where others do not.

The fisherman, apostle Peter wrote in his letter II Peter 3: 8 “However, do not let this escape your notice, beloved ones, that one day is with Jehovah as a thousand years and a thousand years as one day. Jehovah is not slow concerning his promise, as some people consider slowness, but he is patient with you because he does not desire anyone to be destroyed but desires all to attain to repentance.

Two thousand years ago Peter was not writing a rule for time dilation.

Yet as men are impatient because their lives are short, then Peter compared the eternity of God with the short life of men.

Because God is eternal, time as humans imagine it does not happen to him. God does not need clocks or machines to mark time.

In fact, God taught in Genesis 1:14: time is a "measure of a referential movement" (ie science, definition of time) and humans could count the numbers of the turns of the stars to measure time in the Universe. Genesis 1:14 says, “ Then God said: Let there be luminaries in the expanse of the heavens to make a division between the day and the night, and they will serve as signs for seasons and for days and years.

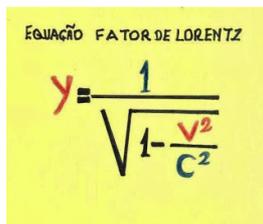
Then, according to the illustration of Peter, being a thousand years of men equals one day to God how would we calculate that time dilation by the Lorentz equation? Like this:

This is the Lorentz equation, with which Einstein calculated time dilation.

V^2 is the square of the velocity of something so that in your watch it takes only 1 day while on Earth a thousand years pass. c^2 is the square of the speed of light.

To spend a thousand years on Earth and only 1 day for God, God's clock would be traveling at the speed $v = 99.9999999996247\% c$ (approximate number, almost speed of light) and the correct Lorentz factor (gamma, γ) would be **365002.5**

You can check by the equation of Lorentz shown here



The image shows a yellow rectangular box with the text "EQUAÇÃO FATOR DE LORENTZ" at the top. Below the text is the Lorentz factor equation:
$$\gamma = \frac{1}{\sqrt{1 - \frac{v^2}{c^2}}}$$

$$E = m \cdot c^2$$

Is there the concept of equivalence of mass and energy in the Bible?

Yes, there is, look how:

In physics, mass-energy equivalence is the concept that any mass has an associated energy and vice versa. In special relativity, this relation is expressed by the mass-energy equivalence formula

$$E = m \cdot c^2$$

being:

E = energy,

M = mass,

C = the speed of light in the vacuum,

In this formula, by Albert Einstein, c , the value of the velocity of light in the vacuum, performs the conversion of kilograms to joules (since the mass and energy quantities are different).

The energetic content of the body is the sum of its kinetic energy with all the energies stored within it and with the energy of the radiation that can be obtained by the conversion of its material parts. The energetic (total) content of a body is calculated by equation $E = m \cdot c^2$

But we want to understand vice versa, that is, the transformation of energy into matter. Because the Bible in Isaiah 40:26 says that God being a source of energy he transformed a lot of energy into matter and thus gave rise to the Universe. We read:

“Lift up your eyes to heaven and see. Who has created these things? It is the One who brings out their army by number; He calls them all by name. Because of his vast dynamic energy and his awe-inspiring power, Not one of them is missing.” His vast dynamic energy.... are the principal words.

In this case, as Isaiah shows the transformation of God's energy into matter to produce the Universe, the equation $E = m.c^2$ would be the inverse. The result is:

$$m = E / c^2$$

By the concept of energy in relativity, energy has no beginning or end, can not be created nor destroyed, but it can be transformed. Energy is something eternal.

EXPANDING THE EINSTEIN CONCEPT

We can expanding the concept of Einstein and write an energy equation for before the Big Bang. Certainly in this case there was no Big Bang but rather creation through the transformation of small part primary energy into mass which is the Universe.

If the energy is eternal, of course, the source of it is also eternal. Therefore God is believed to be eternal without beginning or end, because He is the source of energy. So it could be an equation for God's eternal energy:

$$Pe1 - Re1 = TmU.c^2$$

Being:

Primary energy = 1 then, Pe1
 Total Mass of the Universe = TmU,
 Square of the speed of light = c^2

If we know the total mass of the Universe we can calculate by Einstein's relativity.

$$Pe1 - Re1 = TmU.c^2 \quad \text{or}$$

Re1 is the energy remaining in Pe1 after creating the Universe by transforming energy into matter.

If you like to imagine numbers then imagine something like this:

$$Pe1 - Re1 = TmU.c^2$$

$$\begin{array}{rclcl} 1 & - & 0,9 & = & 0,1 \\ 1 & - & 0,99 & = & 0,01 \\ 1 & - & 0,999 & = & 0,001 \\ 1 & - & 0,9999 & = & 0,0001 \end{array}$$