

Time arises from motion along fourth space dimension, and hence time is real, not an illusion

Human civilization has finally reached the stage to ask "What is time?" and unravel nature's best kept secret about the mysterious 'arrow of time'.

INDORE, MADHYA PRADESH, INDIA, March 19, 2023 /EINPresswire.com/ -- "People like us who believe in physics know that the distinction between past, present and future is only a stubbornly persistent illusion" Albert Einstein.

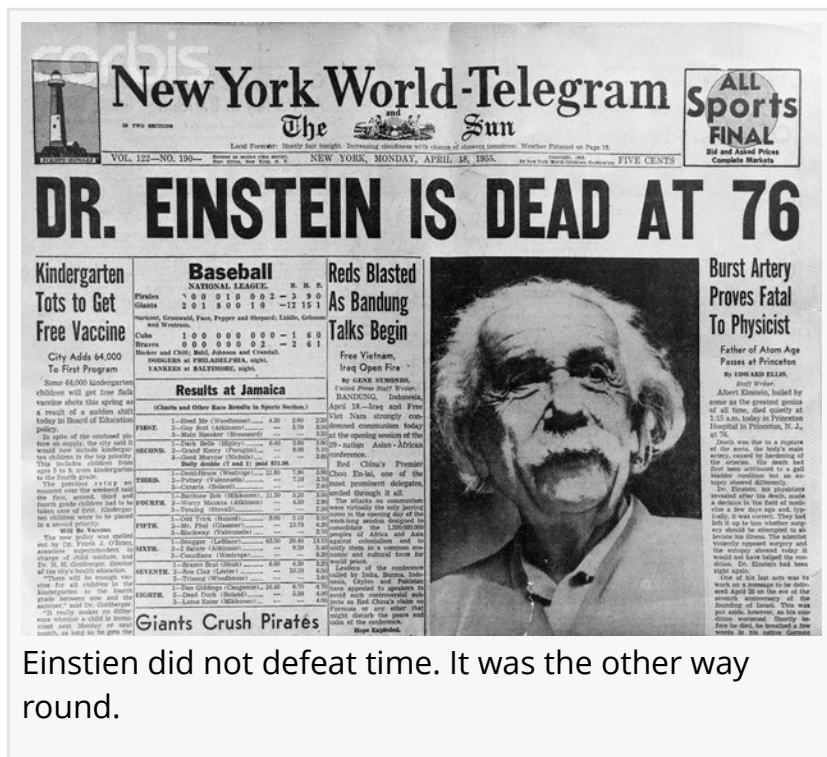
Einstein's belief must have served him something good. He could breathe his last merrily as a bird, ignoring the firm grip of time on human lifespan. But those doubting the reality of time, should see the slices of Einstein's brain (more than 240 slice blocks) preserved in formalin and kept in different locations worldwide.

Einstein and his former teacher Minkowski, gave the concept of SpaceTime. They combined the three dimensions of space and one dimension of time into a single four-dimensional continuum called SpaceTime. It is the arena in which everything, happens. The Minkowski-Einstein SpaceTime equation contains crucial clue about the true nature of time. However, SpaceTime is not a 4 dimensional continuum; the mathematics is telling

something else! [[#Link1](#)]

Correcting the mistake, and following pure logic and reasoning, one can deduce the true shape and size of the universe. [[#Link2](#)] The universe is like a (hyper) balloon and is expanding.

Copernicus broke with 1300 years of tradition, and revolutionized science by moving from earth-



Einstien did not defeat time. It was the other way round.

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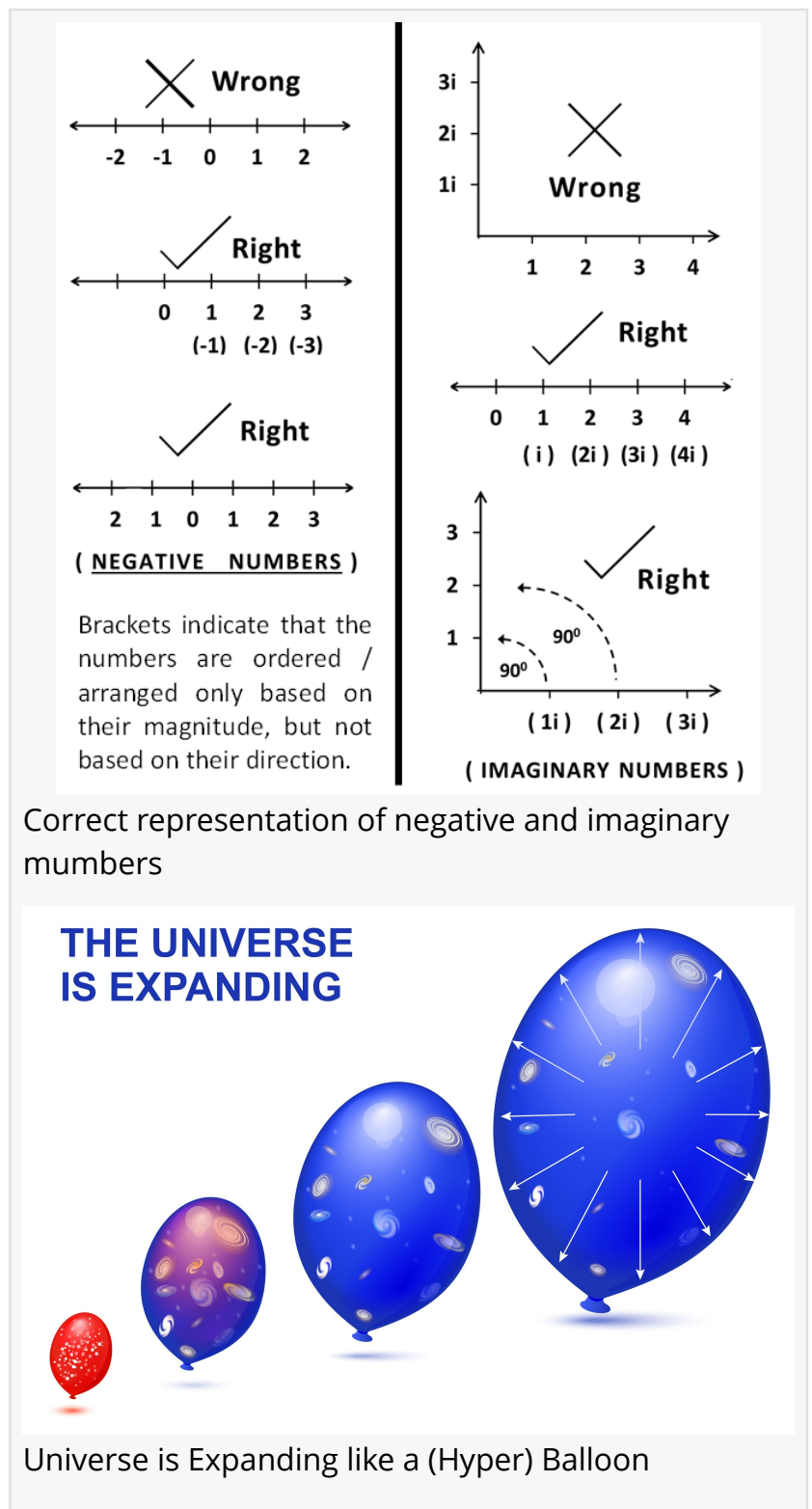
Time you enjoy wasting is not wasted time.”

Marthe Trolly-Curtin

centric to sun-centric view. But, moving the viewpoint to the true center of the expanding universe explains the origin and true nature of time itself! From the center of universe viewpoint, simultaneity is absolute (universal 'now'), as demanded by Sagnac effect, and there is indeed absolute universal time, as demanded by quantum mechanics. [[#Link3](#)] That is because the absolute universal time passed since the Big Bang is just a function of the radius of the universe. From human viewpoint (located on the wall of the hyper-balloon universe), locality is absolute, the velocity c is the upper limit, and remains constant for every observer. Those were Einstein's firm belief, which were later shattered by Quantum Entanglement experiments (which led to the award of last year's Nobel Prize). Human's viewpoint turns space and time into inseparable twins, and makes (human's) time a relative concept. This solves the 'time problem' and paves the way for unification of incompatible and mutually conflicting theories of General Relativity and Quantum Mechanics, which are the two pillars of modern physics.

Accepting both 'relatively flowing time' due to movement of observers (i.e. time dilation) and absolute universal time is psychologically very challenging. To digest this concept, one should re-visit the 'twin paradox', but now without the usual rocket journey.

Consider two twins, A and B. The nurse, the midwife and the medical attendant who had witnessed their birth had all certified that the twins were born within minutes of each other. But somehow twin A started ageing very rapidly (Doctor's said it was a rare case of 'Progeria', also known as Hutchinson-Gilford syndrome). His beard had turned white, his skin wrinkled like raisins, his teeth fell off, and he was already on his deathbed while the twin B barely looked in his



20s. Now should one say that the twins are of same age, or of different ages?

The answer seems so obvious. Yet one seems so utterly confused, while dealing with this same question that pops up unnoticed in physics. Clearly there are two concepts of time involved here. One is sort of global or universal Time (i.e. the duration from the twins' birth to this moment). The other is related to the ageing process (it is a sort of process time). All clocks rely on some process (radioactive decay, pendulum swing period etc.). Everything in the universe has a common birth moment-the moment of big bang (which has very strong evidences of having actually happened). Nature is utterly determined to maintain the duration from big bang to this present moment equal for every object in the universe, irrespective of whether it is moving at 99.99% velocity of light or at rest. Every object in the universe has the same age.

FURTHER READING:

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