# The Concept of Atemporality Into The Theory of Relativity

**Albert Einstein sad:**
**»Space and time are modes by which we think,**
**not conditions under which we live«.**
**Time--the time that we know through clocks and calendars--was invented.**
**http://www.britannica.com/clockworks/article.html**

Amrit Srecko Sorli
sorli.bistra@gmail.com
Scientific Research Centre BISTRA, Ptuj
Slovenia

## Abstract

The Concept of Atemporality is based on the fact that with clocks one measures duration, speed and numerical order of material change and not time. With eyes one can perceive in the universe only material change that run into physical space. One cannot perceive time as a physical reality into which material change run. Material change runs into physical space only and not in time. Time is not a fundamental physical reality as matter, energy and physical space are. Time exists only when we measure it; time is an "observer effect".

## Introduction

Human conviction that with clocks one measures time cannot be proved by an experiment as time cannot be observed by senses (sight). Human senses confirm that with clocks one measures duration, speed and numerical order of material change that run into physical space. Smallest unit of duration and numerical order of material change is Planck time, the biggest is light year. Material changes itself have no duration, they only have numerical order. A scientist gives material changes duration by measuring them with clocks; time is epiphenomena of measurement duration of material change. Time does not run into universe on its own. Universe is an atemporal phenomenon. Albert Einstein is right by saying: »Space and time are modes by which we think, not conditions under which we live«. Time -- the time that we know through clocks and calendars -- was invented. (1,2,3).

**Special of Relativity enriched with the concept of atemporality**

Concept of Atemporality is up building Theory of Relativity in a sense that space-time is a mathematical model only with which science describes material change running into physical space that itself is atemporal. Time does not run into space on its own. Material change runs into atemporal space.

In the Theory of Relativity the forth coordinate **X4 = c x i x t**, where **c** is light speed, **i** is imaginary number and **t** is a number presenting duration of material change, is so called "time coordinate". Time coordinate allows one to see irreversible stream if material changes that runs into atemporal pace in a linear perspective, it means into "space-time" that is a mathematical model only, it does not exist as a physical reality.

In the Theory of Relativity is not time that is relative, relative is a speed of material change; in a faster inertial system speed of material change is lower than in a slower inertial system. Into physical space with stronger gravity speed of material change is lower than into physical space with weaker gravity field.

This new understanding of time resolves the problem of twins: brother in a faster spaceship is getting older slower than his brother on the earth, but both are getting older into atemporal physical space. Brother living on the Moon is getting older faster than his brother on the Earth because gravity of stronger on the Earth.

Contradictory hypothetical travel into past that are possible into Theory Relativity are according to the Concept of Atemporality out of question. No one can travel through the space-time, as space-time is a mathematical model only; one can travel into the atemporal physical space only.

**Atemporal space and General Theory of Relativity**

Into General Theory of Relativity 3 dimensional objects exist into a 4 dimensional space. Gravity force is the result of curvature of 4 dimensional space. As space is atemporal, one can see gravity force as a non-propagating force working directly into space and indirectly between material objects. According to the Loop Quantum Gravity space has a granular structure; it is made out of quanta of space. Curvature of atemporal space is the result of its quantum structure. Gravity force as a result of curvature of space is a non-propagating force; it works directly into 4-dimensional atemporal space and indirectly between 3-dimensional material objects.

## Concept of Atemporality and Einstein-Podolski-Rosen experiment

Einstein-Podolski-Rosen experiment confirms The Concept of Atemporality according to which material change run into space only and not into time. Into EPR atemporal space is a direct information medium between elementary particles, there is no information signal traveling into time between particles. Atemporal space is "immediate information medium" between elementary particles (4).

## Conclusions

The Concept of Atemporality is based on elementary perception: time cannot be observed in the universe. With clocks one measures duration, speed and numerical order of events that run into atemporal universe. Increasing of the entropy in the universe runs into atemporal space. We experience increasing of the entropy as temporal phenomena because we experience it into mathematical concept of space-time. There is no past and future into the universe, both exist only into human mind. Time is an observer effect. Time exists only when one measures it. Man does not exist into time, time exists into man. Universe is an atemporal phenomenon.

**References:**


1. Sorli A., Sorli K. (2005) From Space-time to A-Temporal Physical Space, Frontier Perspectives, Vol. 14, Num. 1. http://www.temple.edu/cfs/articles.html
2. Fiscaletti D., Sorli A. (2005). Toward an a-temporal interpretation of quantum potential. Frontier Perspectives, Vol. 14, Num. 2. http://www.temple.edu/cfs/articles.html
3. Fiscaletti D., Sorli A. (2006). Toward a new interpretation of subatomic particles and their motion inside a-temporal physical space. Frontier Perspectives, Volume 15, Num 2 http://www.temple.edu/cfs/articles.html
4. Fiscaletti D. Sorli A.S. (2008) NON-LOCALITY AND THE SYMMETRYZED QUANTUM POTENTIAL , Physics Essays, December 2008, Vol. 21, No. 4 http://www.physicsessays.com/