Law of Speed Dilation

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Abstract: *Time is the 4th dimension which has some important characterizes but not the same as it is described and assumed by the neo classical scientists in different ages. According to Albert Einstein, theories Time-4th dimension has some special influential element in this 3rd dimensional universe such as the speed or velocity, gravity etc. These elements have no such influence as it is explained by him. Rather these elements are the part of the TIME-4th dimension and working as a part of helping elements. Time-4th dimension will remain even after when there is no gravity, velocity or speed. Velocity and speed has a particular law not having any effect on time.*

Keywords: *Velocity, Time, Space, relativity, 4th dimension, Alternative theory of time dilation, Albert Einstein*

1. INTRODUCTION

The wrong assumption- "TIME DILATION":

Theoretical and mathematical expression of TIME DILATION:

The measurement of Time depends on the motion of the observer or even that is being observed. The clock moving with respect to an observer appears to tick less rapidly than when it is at rest with respect to him. A clock moving with respect to an observer gives less time than the same clock at rest with that observer.

Suppose an observer in space ship measures the time interval t_0 between two events , which occur at the space ship and an observer on the earth measures this time interval as t. It is found that the time interval is longer than the time interval t_0 . Here the time interval t_0 which the time interval interval between two events which occur in the reference frame of the observer at the same place is called proper time of occurrence of the two events. To the observer on the earth it appeared that the starting and ending of the time interval occurs in to two places as a result the interval seems to be longer than actual time which is called as TIME DILATION.

t_0 = time for us in our 30% light speed ship

t = time for the losers back on Earth

$$t = t_0 * \frac{1}{\sqrt{1 - \frac{v^2}{c^2}}}$$

For any moving body; $\sqrt{1 - \frac{v^2}{c^2}}$ is always less than 1 so, *t* is always greater than t_0 and the equation is expressed the TIME Dilation. Now let's take an example suppose that relative velocity is $v = 0.98$. Then after putting all values in the above equation we will get the value of $t = 5t_0$. which means time will move 5 times faster than the time of moving object. Hence the person who is travelling at the speed of light will observe the slower time schedule than the person who is observing the time staying on the earth. [1]

2. THE LOGICAL ASSUMPTION: "SPEED DILATION"

If we go in depth, we may find that here, actually TIME is mentioned as we see in the clock. But no clock can show us the unit or measurement of TIME the 4th dimension. One whole round on own axis of the earth is counted as one day. One day is divided in to 24 parts known as hour. One hour is divided in to 60 parts known as minute and minute is divided in second, micro second etc. One whole movement

of the earth around the sun is known as year. So, basically what we are watching and counting on any clock in the earth rotation speed either in table, wall, wrist or atomic. All these are nothing but the measurement of the earth rotation around the sun. So, every hour, minute, second and ticking of clock is showing us the rotational speed of the earth. [2]

So, one tick in clock on the earth means one rotational speed of the earth around the sun. And one tick of the clock which is going at the speed of light or any other speed out of the earth is the compression of the speed of the rotational speed of earth and the speed of the moving clock.

Now if we analyze above equation based on the logical assumption, we may see that $t= 5t_0$ which means the rotational speed of the earth is 5times more in compare with the clock which is traveling at the above speed.

Thus we may conclude that the person who is travelling at the speed of light will observe the slower speed rate or the measuring unit of earth rotation speed than the person who is observing the earth rotation speed in the clock staying on the earth.

So, we actually observe the Speed variation or dilation is not TIME dilation at all.

3. WRONG ASSUMPTIONS OF GRAVITATIONAL TIME DILATION

Another form of time dilation, an actual difference of elapsed time between two events as measured by observers situated at varying distances from a gravitating mass. The lower the gravitational potential (the closer the clock is from the source of gravitation), the slower time passes, speeding up as the gravitational potential increases (the clock getting away from the source of gravitation). Albert Einstein originally predicted this effect in his theory of relativity and it has since been confirmed by tests of general relativity. [3]

4. LOGICAL ASSUMPTION

When the clock is varying its tick in different place due to the force of gravity or any force that means the attraction force of any element is effecting the rotational speed of the earth. Thus the clock time tends to get slow or uneven activity near black hole or any other forces in any particular place. [4]

It happens due to the SPEED variation.

Time has no measurement unit. No clock can show us the unit of TIME-the 4th dimension. Time has only the universal constant. It has two faces, Future and Past. It arises from future and move towards past through a gate way which we know as Present. At the point Present, everything becomes REAL and it becomes a fact that can be visible by a 3 dimensional eye in '0' hour. Within '0' hour it disappear towards the past. Thus, the time constant can be said as, (Present=0) present equal to zero or in short form, (Pr=0). Now check it out no matter where ever you remain or stay you will experience everything in '0' hour and your fact will disappear in '0' hour too. On the earth , out of the earth or in the black hole or out of black hole, everywhere. Thus, we can say the 'Pr=0' is the universal constant for TIME the 4th dimension.[5] Not only that if we put the time diagram on a graph paper we may see that Past remains in the negative zone. Thus we can say Past = - [negative], and future remains in the positive side of the graph paper. Thus we may say that Future = + [positive] So if we add up then we may get the relation between past, present and future as the following equation:

Future + Past = Present

Where, Future = + [positive]
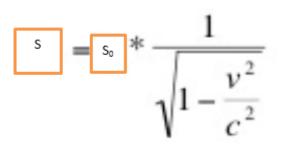
Past= - [negative]

And Present = 0 [zero]

Or, Fr + Ps = Pr

Where, Fr = Future, Ps= Past, Pr= Present [5]

So, no clock can measure the TIME. Doesn't matter it's a digital, analog or atomic clock.

5. CONCLUSION

So, lastly we can say that the law of speed dilation is the difference of velocity of two moving thing. And it happens when one moving object is moving too much faster than the other one. So law of speed dilation can be expressed as follows:

$$S = S_0 * \frac{1}{\sqrt{1 - \dfrac{v^2}{c^2}}}$$

Where S = less speed moving object

S_0 = velocity comparison of the faster speed object

V= velocity

C= speed of light

By computing the value we can get the velocity difference between a faster moving object and a slower moving object.

Thus what people used to know as TIME DILATION is actually is nothing but SPEED DILATION.

REFERENCES

[1] http://www.softschools.com/formulas/physics/time_dilation_formula/222/

[2] https://www.arcjournals.org/international-journal-of-advanced-research-in-physical-science/volume-6-issue-6/3

[3] https://en.wikipedia.org/wiki/Gravitational_time_dilation

[4] https://www.sryahwapublications.com/open-access-journal-of-physics/volume-2-issue-4/5.php

[5] https://www.morebooks.de/store/gb/book/theory-of-relativity-of-time-and-of-evaluation-of-human-civilization/isbn/978-3-659-75070-0