

Lorentz Length Contraction Analysis (SR Discussions)

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Abstract

Particle Nature (Definition) depends On Light Velocity

1- Particle Nature Absolute Meaning

Special theory of relativity states that

If a particle (with length L_0) travels by speed of light (approximately), it will suffer from Lorentz length contraction and be seen with a contracted length (L_1)

So – the question is -

"What's happened For **The Particle Own Nature?**"

The theory states "The Proper Length L_0 Never Change"!

We have 2 directions to choose from:

(1st) to accept the idea that – the particle own nature doesn't change and the contracted length is seen by us as a wrong vision (as mirage) but the particle length itself has no real change

Or

(2nd) to accept the idea that – the particle own nature changes with this motion – and by such way – the particle nature should be created relative to speed of light!

I choose the 2nd choice- Why?

Because – the 1st choice tells us that – The particle own nature is defined clearly when no difference in motions velocities between me and this particle – that means – I'm **The Universe Reference Point** – and this is similar to a person looks at a mirror

Specifically for the previous reason we should refuse the assumption that "**Particle Own Nature doesn't Change**" or the statement "The Proper Length L_0 Never Change".... In factParticle length is changed already

Let's consider this point with some deep analysis in following:

We deal here with the assumption "Particle length doesn't change and the contracted length is only an imaginary vision"

How do we measure the particle length in static case (before any motion)? and how do we measure the moving particle length?

Where we use **The Same Methods** in both cases – practically and logically – we have to consider both results are equal in power – no result is better than the other because both are produced by the same methods of measurements..

Although I consider that –Particle in static should be considered as a special case because it moves by my velocity – means – instead to choose any other velocity the particle chooses to move by my velocity which makes it specific case for particle different motions cases

So the analysis tells us that – the particle different velocities motions is the general case and static situation (relative to me) is a special one

Spite of that

SR states "The Proper Length L_0 Never Change"!

I mean – if the theory means – the proper length will stay with particle during its motion – that means – the special case is used here as a general one – and depending on it all other parameters are created

Conclusion

(1)

Particle own length is contracted by high velocity (light velocity approximately)

Because I'm not "The Universe Reference Point" I refuse the statement "The Proper Length L_0 Never Change"

(2)

Light Velocity should be a player in **Human Realization Process**

2- Light has the same speed, c , in all inertial frames of reference.

Special Theory of relativity simply distinguishes between 2 players

- Light velocity (c)

And

- The universe

Why light velocity is constant in all frames? It's the universe nature

So light tells us that – it is independent of this universe!

Why?

Why has its own velocity independent from all others..?

Conclusion

Light Velocity may be a player in **Human Realization Process**

That's why light velocity is independent from other parameters on Earth why? to make the human realization process independent from the realized objects

To make the human mind realization process is independent from whatsoever around –and to perform that – it's necessary to find an independent player between the human mind and universe around – that's the main reason behind light independent velocity

I understand that – I make **Human Realization Process Is The Universe Reference Point** by this explanation – we may accept this idea as assumption for now –

3- Relativistic Effects

Three features are effected by high velocity motion (light velocity) which are:

- 1- Length Contraction
- 2- Time Dilation
- 3- Mass Increasing

Why these 3 features only are changed with high velocity motion-

What Connected These Three Features Together And Distinguished Them From Other Particle Properties?

I can add one more relativistic feature in following:

Time and Distance Equivalence

We can conclude that easily from the equation $X=CT$

If $C = (\text{light velocity}) = 1$ in this case distance will be equal time

I have supposed that – some physical point in the solar system moves by light velocity relative to another physical point

Regardless if this hypothesis is correct or not – the result will be the same

Shortly

If there's a motion with speed of light in the solar system – this motion will cause distance value to be equivalent to time value according to the previous equation

Now the question – if we can prove this velocity existence or not – I have discussed it before in my paper

Please review

Time And Distance Equivalence (Proves) <http://vixra.org/abs/1904.0125>

Let's return to our discussion – why these 3 features only are changed with high velocity motion?

What connect them together...?

Just the equation ($x=ct$) tells us there's some relationship between time and distance values (the relationship here is direct one- when time increases the distance increases)

But in relativistic effects the relationship is inversed while time get dilation but length became contracted! Why?

We have here another reversed relationship between Mass and time – While time get dilation but mass increased! Why?

I mean – I don't consider each feature is changed independently – instead – I consider them (3 features) are changed together depending on each other and because of one reason behind – but we don't know this reason – why? because we don't know how the particle is created? How it gets its data?

In my study concerning the solar system – I interest in the geometrical analytical questions – such as why moon diameter = 3475 km? all answers here are historical answers – no one sees what effect of this diameter **NOW** on the solar system- simply the moon diameter enable us to see the sun disc = the moon disc – and based on that the total solar eclipse is occurring – all this story is found by pure coincidences – based on historical reports we have to believe!

Let's make the question is clear as possible in following....

While we don't know how the particle is created or how it got its data – SR tells us that this data is changed by high velocity motion – now we have to consider some change in Particle Length, Time and Mass

Now we ask if these changes are done for the particle own nature or for our vision where we usually saw the mirage but never believed it has water

When we asked this question –we have found that – it's not easy one and we have to define the universe reference point before to answer

Now we have equations (lorentz equations) to show these particle properties change but we neither understand why nor know how particle got its original data?

That's why we make a deep analysis to see what's under table..

The only conclusion we can reach is that –

Conclusion

Light Velocity must be a player in Human Realization Process

4- Preferred Reference Frame

"The Special Theory of Relativity"

by Herbert Dingle

D.Sc., D.I.C., A. R.C.S Professor of History and Philosophy

University College – London 10th November 1940

The author tells us that

"Any Observer may use Any (Frame) System"

(1) I move with Earth velocity

(2) I have a body (matter)

We know that

"The laws of physics are the same in all inertial frames of reference"

But

Can I use any frame system?

We consider Earth velocity is so low and can't effect on our frame of reference– this is another question! Theoretically Earth motion forces us to move in specific reference frame – I try to show that we are controlled in specific frame of motion and have to see specific vision – not only because of Earth motion but also because we have bodies (human mind has body) which bind us to the matter world - this is a very powerful argument against the direct observation as astrophysics research method where we live in prison and see directed data.

still the complex questions prevent us to perform any progress – if light velocity is independent from the universe motion – that means – it must be independent from us also – and how we realize it? the human body has electric pulses and it may produce electromagnetic waves by thinking – know the human must be consisted of 2 players – the matter (body) and light velocity (in his mind – conclusion) to what frame the human belongs?

5- Observer effects On Observation Results

Let's ask

Why an electron or a subatomic particle would behave like a particle and not wave when it is observed?

Because human mind realization and thinking process may use (and produce) electromagnetic waves – means – human mind may use light velocity – if we accept that particle nature changes by light velocity effect we can find easily the connection by which observer effects on the observational results

The human may produce light beams by his thinking and realization

And by this light beams the human effect on the (entity) and makes it a particle after measurement (observation)

Note Please/ this also is a powerful argument against the direct observation as astrophysics research method – because we will never what's the entity before observation where it changed already

OBJECTION

This previous idea must be very imaginary one– because the universe doesn't change each minute based on the human thinking process...! How to solve this dilemma?

The change is done based on quantized measurements- the human thinking energy (light beams) is stored and makes the change based on the quantized measurements...!What does that mean?

Based on public knowledge the universe reacts –

I have discussed that in my previous paper

Research Paper "The observer effects on observation results (SR tells)"

<http://vixra.org/abs/1911.0040>

or

https://www.academia.edu/40829783/The_observer_effects_on_observation_results_SR_tells

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