

Matter Creation Known Features (Analytical Study)

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Abstract

How the matter is created? Let's summarize the known features in following:

- 1- Lorentz Transformations tell us that – Particle length and Mass are effected (changed) with high velocity motion – which tells us that- Particle Data may be created relative to its motion.
- 2- Gauss Law tells us that – the net electric charges of conductor resides entirely on its surface –referring to that the matter geometrical shape is created relative to any electromagnetic field may effect on it.
- 3- Light reflection and refraction tell us that – the matter different types are created relative to light effects on them
- 4- Electric Field defines the motions direction – which tells that – the electric field was necessary for the solar planets creation to save planets motions unified direction around the sun
- 5- Planets Data shows That Matter Is Created Depending On A Period Of Time
- 6- Planets Diameters & Masses Show A Dependency On Each Other

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1- Introduction

How the matter is created?

This question is my basic one in all discussions and arguments...

Any way our effort to solve it doesn't go in vein

Many basic features concerning the matter creation, we have reach through different discussions, as mentioned in the abstract.

How we reach to these features?

We use the arguments in both sides...let's use an example for better explanation

Example No. 1

What's The Space Definition? **What's The Space?**

What feature we know about the space?! Is there any? Yes!

Space is a medium through which light travels with its max velocity =0.3mkm/sec

Someone may refuse the word "medium" .. but it makes no difference....

Space or vacuum enables light to travel by its highest velocity – and light through any other medium whether solids or liquids travels with less velocity – simply we have a feature of The Space –

By this same way we reach to the aforementioned features- and I wish in this paper to analyze these features as deep as possible to know– If really these features control The Matter Creation Process...

Let's review In this introduction only the feature no. 1 ...it tells us that:

Lorentz Transformations tell that – Particle length and Mass are effected (changed) with high velocity motion – which tells that- Particle Data may be created relative to its motion.

This feature depends on Lorentz Transformations – the basic difficulty here is created by the next question

Is Lorentz Length Contraction a real phenomenon occurred for particle own nature or found by illusion of measurements? The same question for **Mass Increasing**

We have discussed this question frequently and found that it's an arguable point where the physics textbooks contradict each other in its answer (in appendix No. 1 I refer to many physics textbooks comments concerning this answer to prove this contradiction).

We Accept That Lorentz Length Contraction Is A Real Phenomenon And Can't Be Illusion Of Measurements Why??

Because

- 1- The Physics Experimental Devices measure This Contraction And In Physics What's Measured = What's Real (By This Rule We Save The Physics Methodology Credibility)
- 2- If we claim that – the length contraction is found by illusion of measurements- that means simply – the particle data correct definition is found only when no difference in velocity between my motion and this particle motion – by such way I will be **The Universe Reference Point** – which is similar to a person looks a at mirror

The previous 2 reasons force us to accept that – length contraction and mass increasing are real changes occurred for the particle own nature resulting of high velocity motion.

This argument helps us to answer how the matter is created?

Because particle data is changing with high velocity motion – that tells us – particle data (almost) is created relative to this particle motion...

Any way this conclusion still face more difficulties... such as

- (1) **LENGTH CONTRACTION CONCEPT** can't be clear for us – where – in mass increasing explanation we have understood that – Particle mass is increased because more energy is provided to the particle through its acceleration – and this energy causes the mass increasing ($E=mc^2$) – but why the length is contracted? If the particle is provided with more energy that means more mass, more volume ...etc means particle length should be increased and not contracted! So why the length is contracted?! Still the analysis point is difficult because – while particle length and mass only are changed with this particle high velocity motion- we have no explanation why these 2 data only are changed by such motion? why not the density for example?! And still the analysis faces the complex question because – based on these changes we had to have an equation between any particle length and its mass – also this equation is still absent- And at end we don't understand why Einstein didn't interest for particle length and mass changes in his theory- instead – he uses space-time geometry to explain the distance & time changes by particle high velocity motion, ignoring the particle length and mass as if their equations were not found?!
- (2) If particle data is created relative to its motion – that causes complex situation with Newton concept of the sun gravity – because Newton told that the mass is the planet motion reason – but lorentz tells that particle data (and mass) is created relative to this particle motion- so the question is ...what's found first the planet mass or planet motion, otherwise we have to answer how does the planet move?

2- Methodology (Methodology Is Repeated In All My Papers) It's written in

Why Don't We Understand The Solar System Geometry? <http://vixra.org/abs/1911.0018>

3- Electromagnetic Field Effect on Matter Creation Process

3-1 Gauss Law analysis

3-2 The Solar System Electromagnetic Field

3-3 light refraction and reflection

3-4 Planets Diameters and Masses Creation

3-5 Planets Matters Are Created Depending On A Period Of Time

3-1 Gauss Law Analysis

The idea is clear and easy – Gauss told us that – the net electric charges of conductor resides entirely on its surface – based on that – Capacitors Geometrical Shapes change their capacities

i.e.

The Matter Should have Specific Geometrical Form To Produce Specific Capacity

Now

If we have an electric field passes through some materials – and specific capacity should be provided by these materials to complete the energy cycle – in this case these materials should be created in some geometrical form

That tells us why the geometry is found in our universe

The geometrical shapes are found not for additional or decorative role – but found for basic and essential one

But this idea supposes that an electric field is found necessary for the solar system motions –

But –for example – Earth magnetic field – isn't so strong to effect on the matter creation process! Means this idea may be an imaginary one

let's take a look on a double production experiment

Gamma rays (1.2 Mev) produce electron and positron – Now – Gamma rays (electromagnetic waves) produced electron (mass) + positron (mass) and these 2 particle have different charges and they have electric field between each other – so Is this electric field created based on the electron and positron charges a qualified field for the source energy from which the electron and positron are created?

Of course Not

So the matter is created by electromagnetic field effect but this field is hidden inside the produced matter- **Where This Matter Shows A Field Equivalent To Its Motion And Not To Its Creation...**

That tells us

Earth magnetic field –whatsoever– it can't express the real electromagnetic field from which Earth matter is created.

Shortly

Gauss tells us – the matter is created relative to any electromagnetic field effect on it

3-2 The Solar System Electromagnetic Field

Why the solar system need an electromagnetic Field?

Again let's analyze the double production experiment

Gamma rays (1.2 Mev) produce electron and positron

Electron is a negative charge and positron is a positive charge – they can create a direction for their field

The field total may be = zero, negative or positive values

Without electric field how to create a direction?

The components (electron and proton) cause the field direction –

No why the solar system needs a direction?

Because all solar planets should revolve around the sun in the same direction

That tells us more about how the matter is created

The matter is created to do some job with specific direction

The matter is created in specific motion with specific direction

Let's again explain how these arguments move... the next example may help us

What's a wall shadow?

It's a light passing by the wall and the wall prevented it– so we see its shadow...

I claim that's NOT happened – and what's happened is the following:

A light beam passes through some area and there's another light beam face it – now a coherence of light is occurred by these 2 light beams – this coherence of light we see as **A Wall**

But Young in his experiment didn't see that – he saw only bright fringes and dark fringes – that because Young was an outer observer – Young wasn't a light beam inside this coherence of light

But we are light beams inside this coherence of light because we have bodies – and these bodies (matters) bind us to the universe matter and every thing is occurred in this universe occurred also for us because we are share in its existence...

We are not outer observers

3-3 Light Refraction And Reflection

Light reflection and refraction provide more details about how the matter is created
Here again

We don't consider the matter is found and the light interference with the matter based on this matter (or medium) properties...

Instead

We consider that – the matter (or medium) properties are defined relative to the light effect on it

So this medium properties are defined relative to the light reflection or refraction in this medium – the player here is not the medium but the light

The question is

Why light refraction or reflection properties through this medium be as such?

Why light in light travels with less velocity than in vacuum?

The light is the player behind the medium properties creation

Please Review

Does Particle Data Depend on Its Motion? (Lorentz Transformations Analysis)

<http://vixra.org/abs/1912.0134>

Is There A Contradiction In The Physics Book?

<http://vixra.org/abs/1911.0470>

Lorentz Length Contraction Is A Real Phenomenon & Not Illusion Of Measurements

<http://vixra.org/abs/1911.0468>

Lorentz Length Contraction (More Discussion)

<http://vixra.org/abs/1911.0431>

Lorentz Length Contraction Analysis (SR Discussions) (Part III)

<http://vixra.org/abs/1911.0234>

Lorentz Length Contraction Analysis (SR Discussions) (Part II)

<http://vixra.org/abs/1911.0205>

Lorentz Length Contraction Analysis (SR Discussions)

<http://vixra.org/abs/1911.0181>

3-4 Planets Diameters and Masses Creation

Planets Diameters

Table No.1		No Error More Than 1.5%
The Relationship	The Rate	
Earth Diameter / Venus Diameter =	=	A
= Mars Diameter / Earth Radius =	=	
Mars Diameter / Venus Radius =	=	A ²
= Venus Diameter / Moon Circumference =	=	
= Moon Radius * π/ Mercury Diameter =	=	
= Pluto Circumference / Mars Diameter =	=	
= Uranus Circumference / Jupiter Diameter =	=	
= lunar apogee radius / lunar perigee radius =	=	
Pluto Circumference / Earth Radius =	=	A ³
= Mercury Circumference / Earth Diameter =	=	
= Earth Diameter / Moon Circumference =	=	
= Uranus Radius / Mars Circumference =	=	
= Jupiter Diameter / Saturn Diameter =	=	
= Saturn diameter / Uranus Diameter =	=	
Venus Radius / Mercury Diameter =	=	A ⁴
= Uranus Diameter / Earth Circumference =	=	
Uranus Diameter / Venus Circumference =	=	A ⁵
Jupiter Radius / Uranus Diameter =	=	A ⁶
= Mercury Diameter / Moon Diameter =	=	
= Mars Diameter / Mercury Diameter =	=	

Discussion

Planets Diameters tell that they are created relative to each – they are not created by any random process (Big Bang Theory) – on the contrary – they are created to be complementary and relative to each - for more discussion- please review

The Big Bang is a Mystery (SR Proves)

<http://vixra.org/abs/1911.0312>

Planets Masses

Planets Masses we have discussed deeply before –

Please review

Mass Is Distributed Through Solar System

<http://vixra.org/abs/1909.0022>

we can here refer to one point only in following:

Earth Mass = total masses of (Mercury + Venus+ Earth Moon + Mars) (Error 1%)

i.e.

Earth Mass = The Rest Inner Planets Masses Total

Gamma rays (1.2 Mev) produce electron + positron

The same idea

Great Gamma Ray Produce a great electron (Earth) + A great positron (all 4 planets)

So

Earth = The Great Electron

What's does that mean?

That means, Earth atom has a positive nucleus and electron (-) orbits this nucleus

4 planets together = a great positron! What does that mean?

That means

These 4 planets atoms have a negative charges where a positron (+) orbits these nucleus –

Based on that – the force between these 5 planets are originated based on electric changes and not masses gravity as Newton told

The previous example tries to show that –

the matter really can be created of electromagnetic waves

The Conclusion

The Matter Is Created Of Electromagnetic Waves

3-5 Planets Matters Are Created Depending On A Period Of Time

Pluto moves a distance = 406000 km per solar day
Solar planets diameters total = 406000 km

Based on the previous data I have supposed that – the solar planets diameters were created as a result of Pluto motion for one solar day
This idea was so complex in discussion because – I suppose that – light motion for 1 second causes planet motion for 1 solar day – this hard discussion can't be repeated here – so please review that argument

Matter Creation Principle (Part V)

<http://vixra.org/abs/1908.0367>

Matter Creation Principle (Part IV)

<http://vixra.org/abs/1908.0289>

Matter Creation Principle (Part III)

<http://vixra.org/abs/1908.0257>

Matter Creation Principle (Part II)

<http://vixra.org/abs/1908.0206>

Matter Creation Principle

<http://vixra.org/abs/1908.0196>