

General Relativity Vs Quantum Mechanics, Incompatibility Solved with Real Dimensions of Space-Time

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Abstract: The incompatibility between general theory of relativity and quantum mechanics is just a gap, which requires real dimensions of space-time to fill it. Scientific drawings based on real dimensions could connect general relativity and quantum mechanics in absolute. The drawback of relativity is nothing but the term 'relative' which holds the dependency factor between two considered things and hence explains, this object is relative to that object and vice versa, for the basic query of, what is fundamental for both? It is absurd to say 'relativity' is singular which serves the fundamental for entire existence.

Key points:

- According to Sir Einstein's interpretation, speed of light results in shortened distance called contraction in length and a time delay called dilation in time.
- In our previous journals, these two variations are clearly shown to be the aspects of space and time in terms of space contraction and time reduction respectively, constituting a reduced space-time scale, in case of light photon (size factor).
- Also, we have discovered two real dimensions of space-time hidden behind the variations of length contraction and time dilation. And again, the discovered dimensions are utilized in return to visualize the actual variations happening in space and time for an object moving with its speed. Thus, we knew, how length contraction and time dilation were wrongly assumed separately for shortening in distance and possibility of time travel respectively.

Keywords: Length contraction, time dilation, real dimensions, sp-ti 0, sp-ti waves, sp-ti womb, wave-particle, fundamental fields.

1. INTRODUCTION

- Theory of relativity is based on the fact that; it could not find any other clue except to relate the objects. And failing of which, blindly declares a human understanding at the level of stating, "everything is related to every other thing". Obviously, the theory works based on duality but moving towards singularity, it obviously fails at the stage of quantum science. And in the same way, even the theory of quantum mechanics (said to be fundamentally accurate) also fails moving further into space-time where theories, logics and calculations becomes nothing, means has to collapse into nothing (zero).
- This journal has solution for the above said problem through drawings (continues from Fig no.49 – previous journal titles available in reference section). These line drawings are indeed projected from general relativity (macro-objects) to reach the point of evolution of sp-ti 0 (Singularity) which is the deepest, even beyond quantum objects (Nano scale).
- In fact, one could not find the concept of relativity, as the fundamental drawings in absolute perspective, connects these two theories, wrongly assumed to be different from each other. Again, this difference is only due to lack of real dimensions which are also discovered and tabulated along with solutions.
- The truth is, fundamental study of everything, eliminates relativity.

1.1 Table of Real Dimensions

Table of new discovered dimensions in space science			
S. No.	Real Dimensions of space-time (In terms of Aspects)	Path / Nature	Object oriented dimensions in space-time (In terms of Measurements)
1	Wide	Curvilinear	Length L (Wide)
			Width W (Wide)
			Height H (Wide)
			Radius R (Wide)
2	Deep	Radial	Deep Radius r_d (Deep)

- The third dimension of space-time is important and shows how to connect general relativity and quantum mechanics diagrammatically. Though quantum science could be directly formulated by observing the particle behavior with modern equipment. This fundamental was found to be impossible to match with laws of general physics.
- Now, we start with, what is the need for third dimension? Also, if wide dimension could end with deep dimension radially towards sp-ti 0, where is the possibility of third dimension to occur? let us see how to arrive third dimension of space-time.

1.2 Space-Time in Wide Dimension

- ❖ Need for third dimension of space-time
 - If sp-ti 0 being the point of depth, it could begin from wide dimension and end with deep dimension, then what is the need for third dimension?
 - Unlike macro objects, behavior of fundamental particles are unpredictable and unexplainable. There are some unsolved mysteries to be revealed in particle science. For which we need to find the dimension associated with the particles close to sp-ti 0.



Fig 50 (Universe as a disc in wide dimension)

- Considering one dimension of wideness alone in space-time, Universe has a disc shape with a center point of sp-ti 0 and a boundary line with a duality of in & out sides of Universe.

1.3 Space-Time in Wide & Deep Dimension

- Space-time is a sphere with a core in deep dimension.

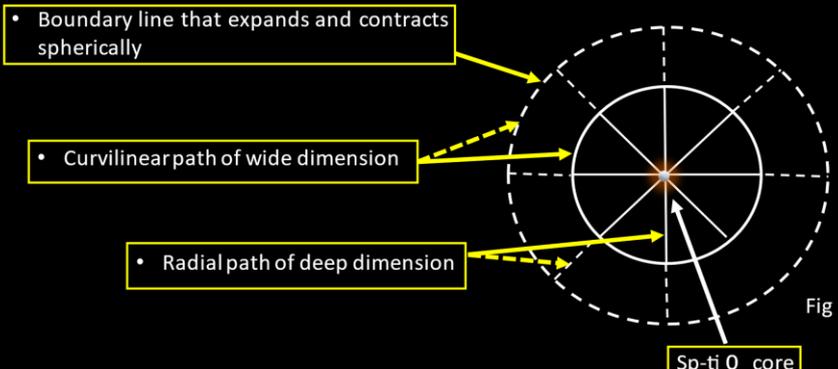
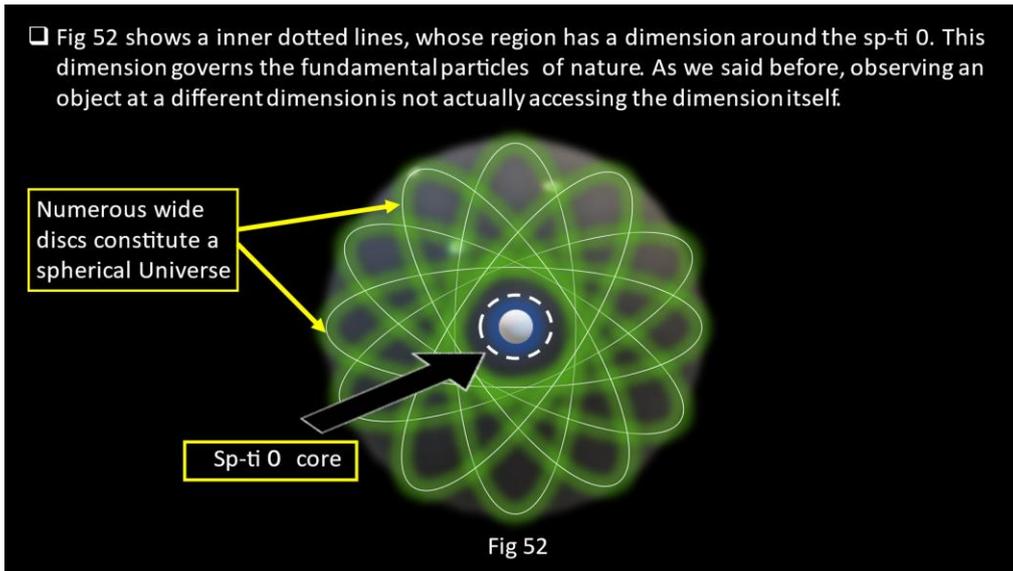


Fig 51

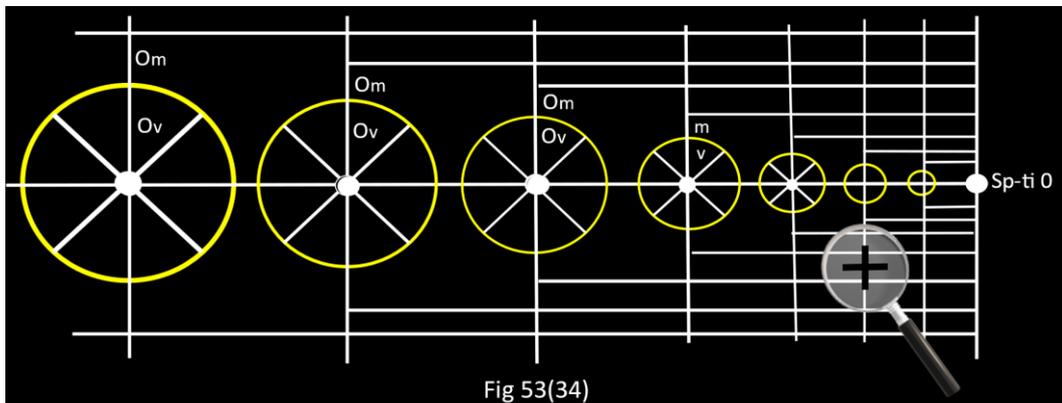
- Boundary line that expands and contracts spherically
- Curvilinear path of wide dimension
- Radial path of deep dimension

- This sphere could be understood to consist of numerous wide dimensional discs about a center. And this center then becomes a core of a spherical universe as in Fig 52.

2. LOCATION OF PARTICLES NEAR SP-TI 0

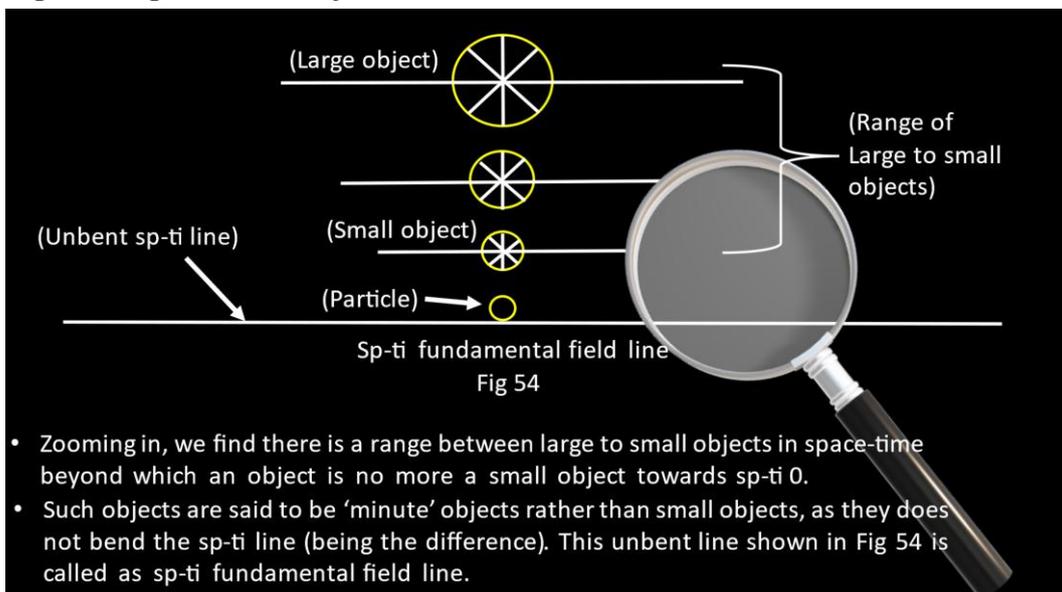


(Single line drawings shall be considered to have drawn in space-time itself)



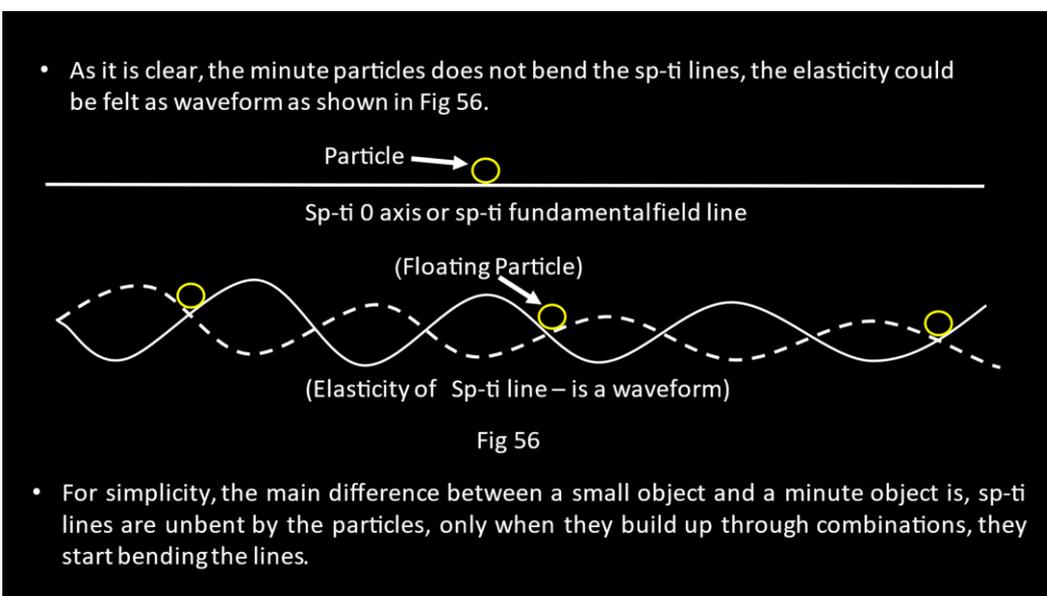
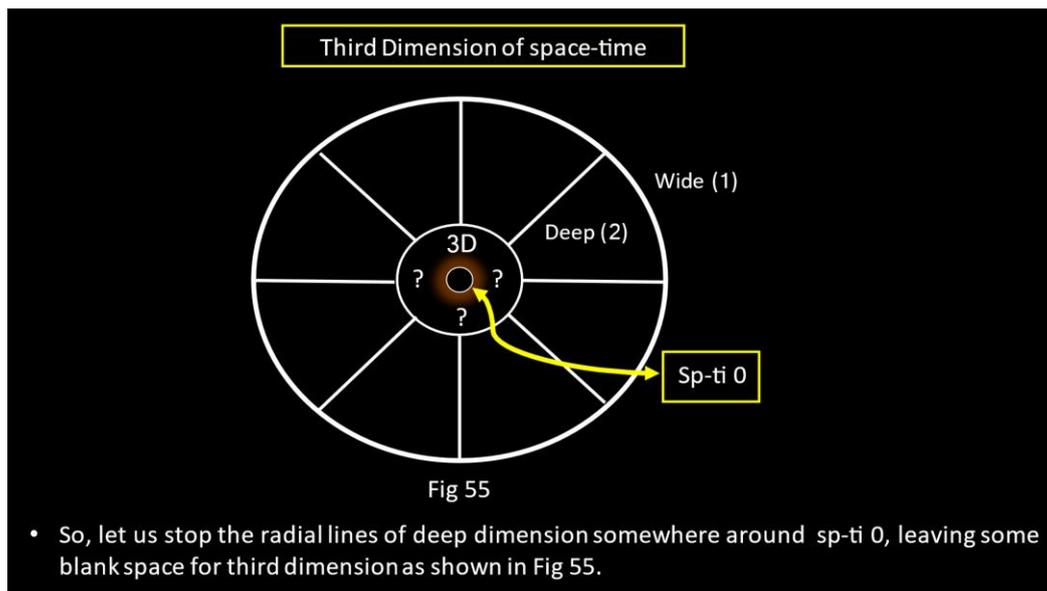
- To discover the third dimension, we shall again zoom into the diagram of volume of the objects in space-time.
- Thereby we find what could physically make the objects differ in terms of dimensions near sp-ti 0.

2.1. Range of Large to Small Objects

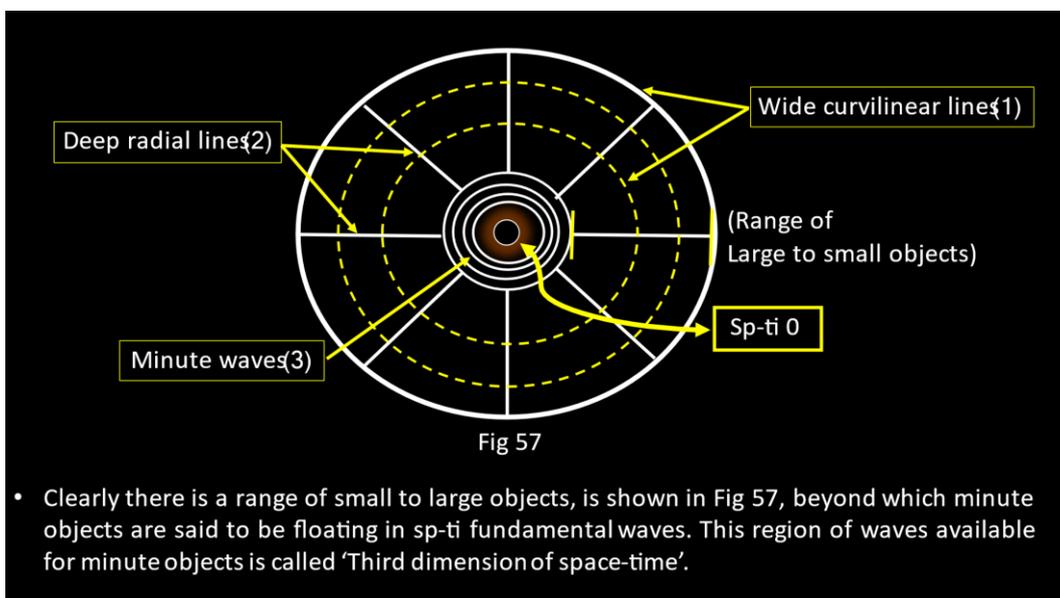


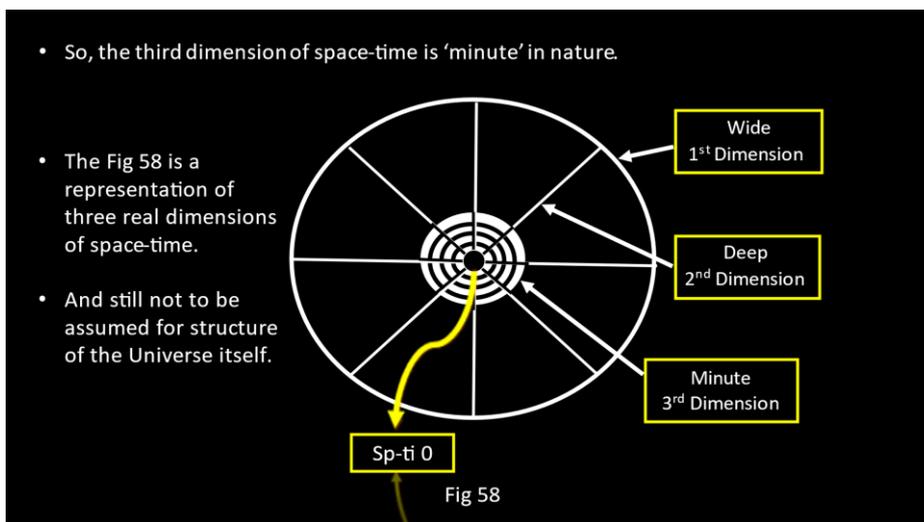
- Zooming in, we find there is a range between large to small objects in space-time beyond which an object is no more a small object towards sp-ti 0.
- Such objects are said to be 'minute' objects rather than small objects, as they do not bend the sp-ti line (being the difference). This unbent line shown in Fig 54 is called as sp-ti fundamental field line.

3. THIRD DIMENSION OF SPACE-TIME

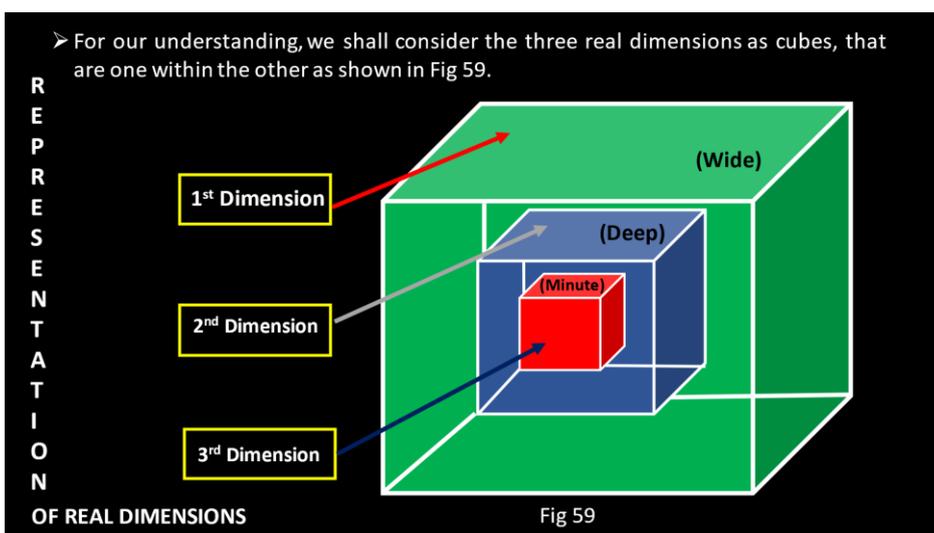


(Single line drawings shall be considered to have drawn in space-time itself)



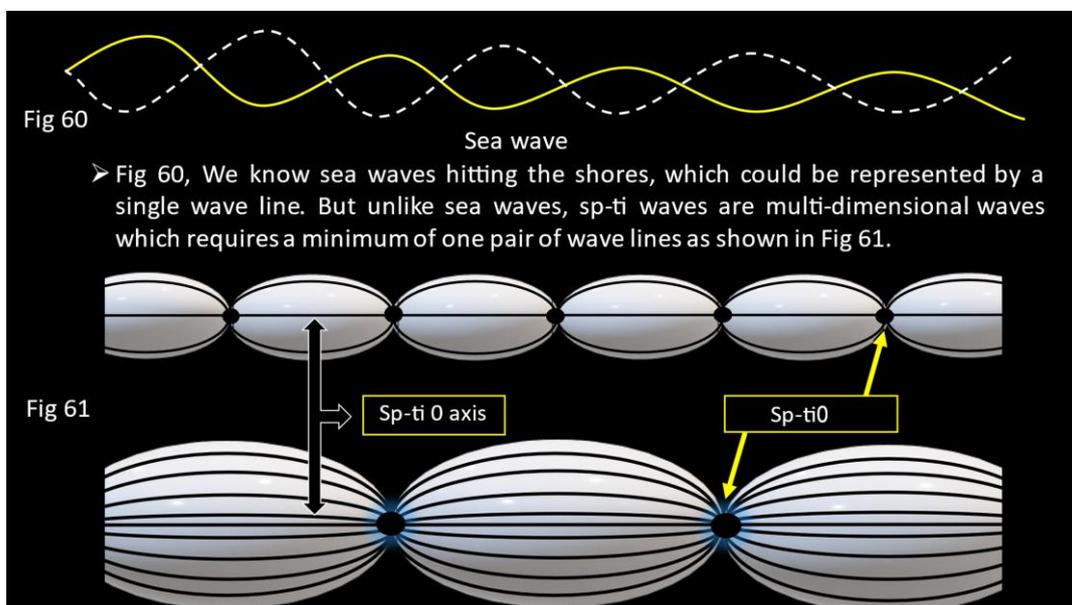


3.1. Representation of Real Dimensions

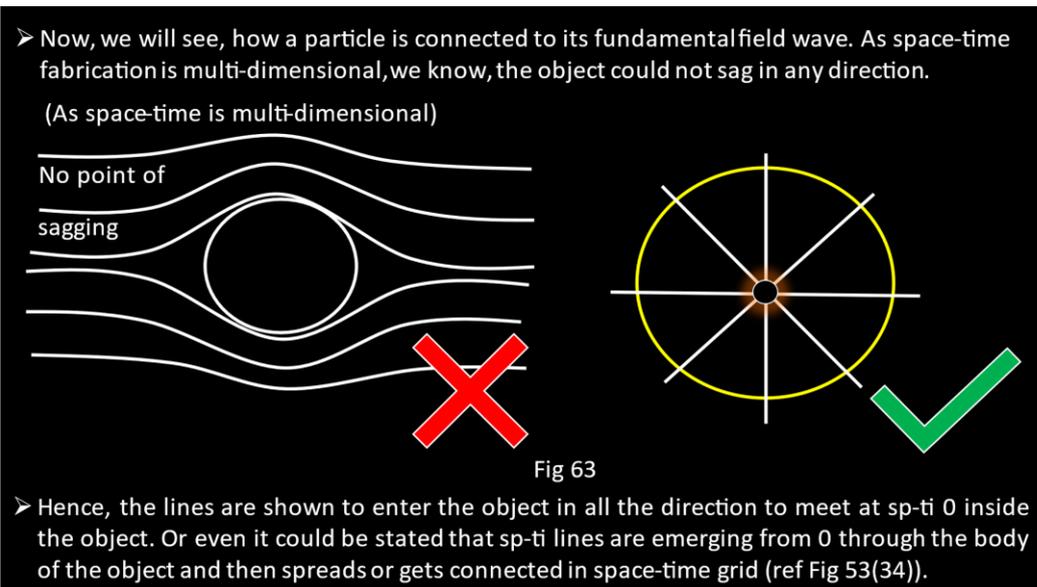
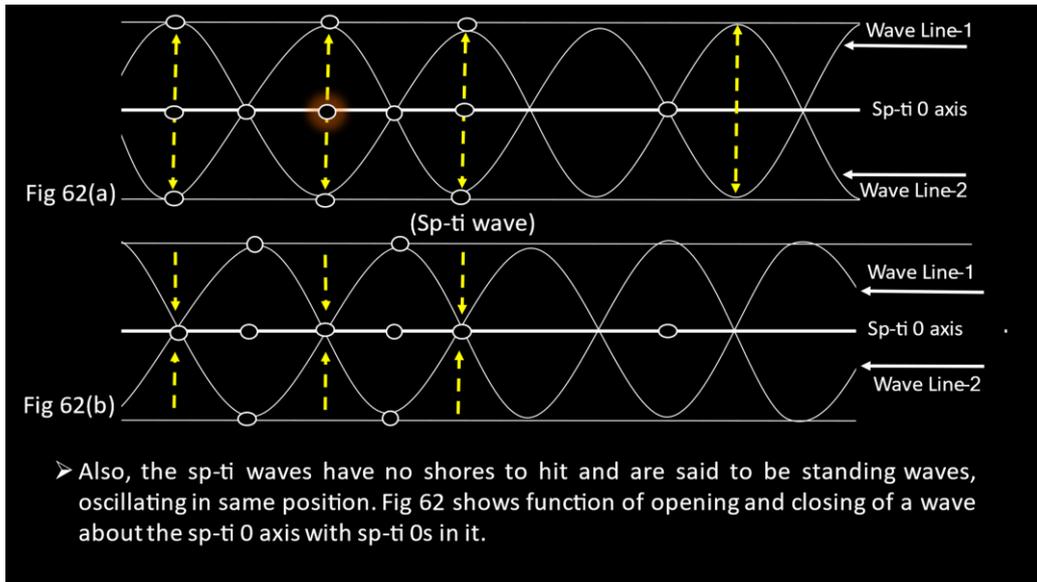


(Single line drawings shall be considered to have drawn in space-time itself)

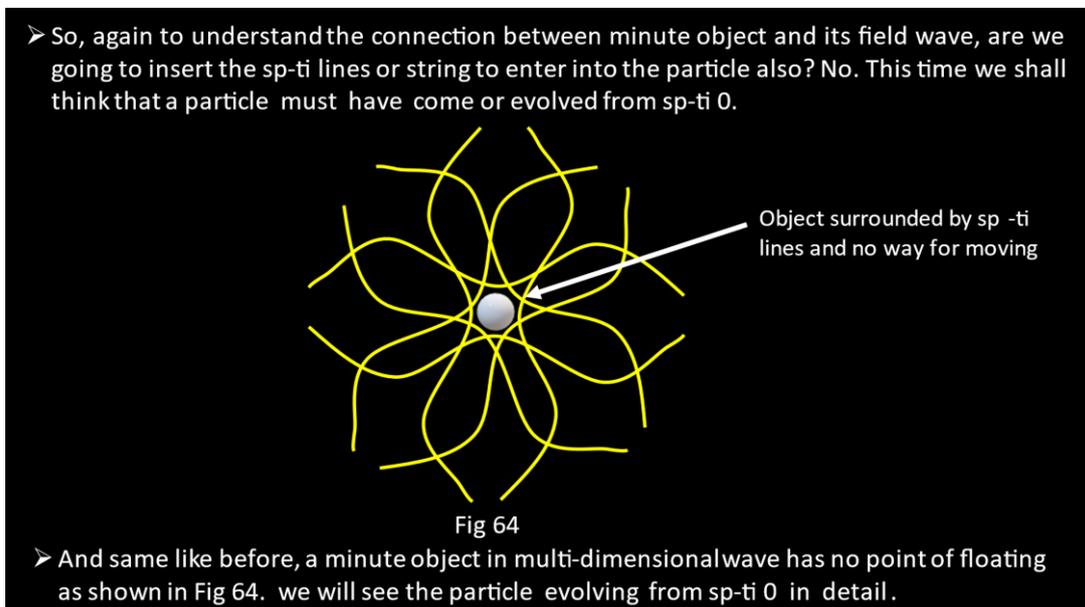
3.2. Sp-ti Waves



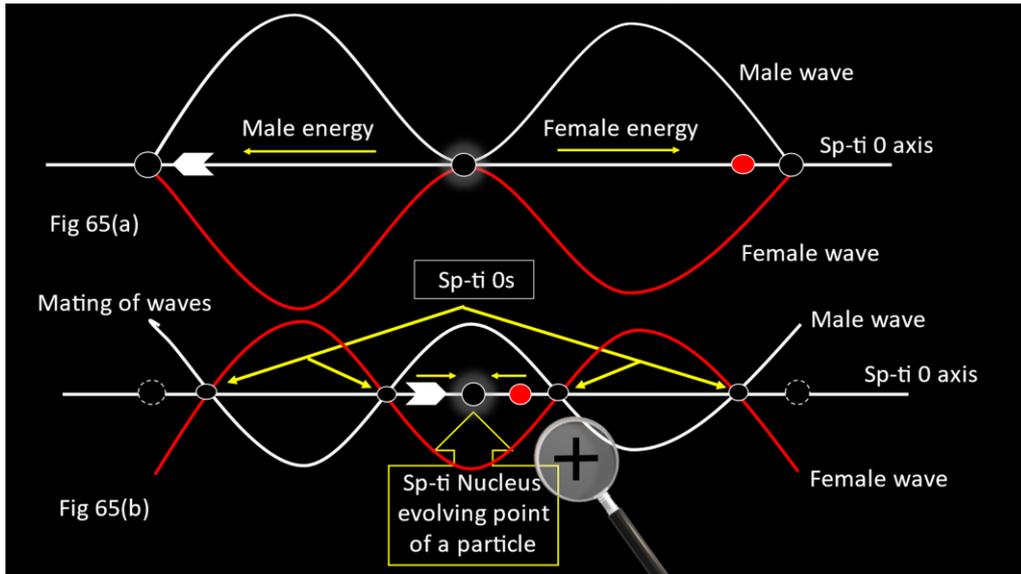
(Single line drawings shall be considered to have drawn in space-time itself)



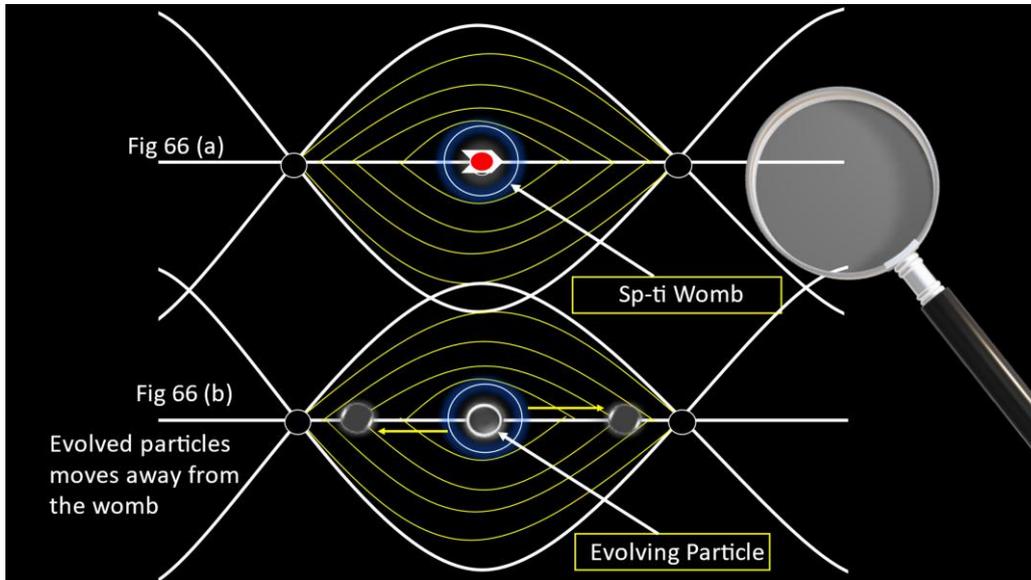
3.3.No Point of Floating in Space-Time



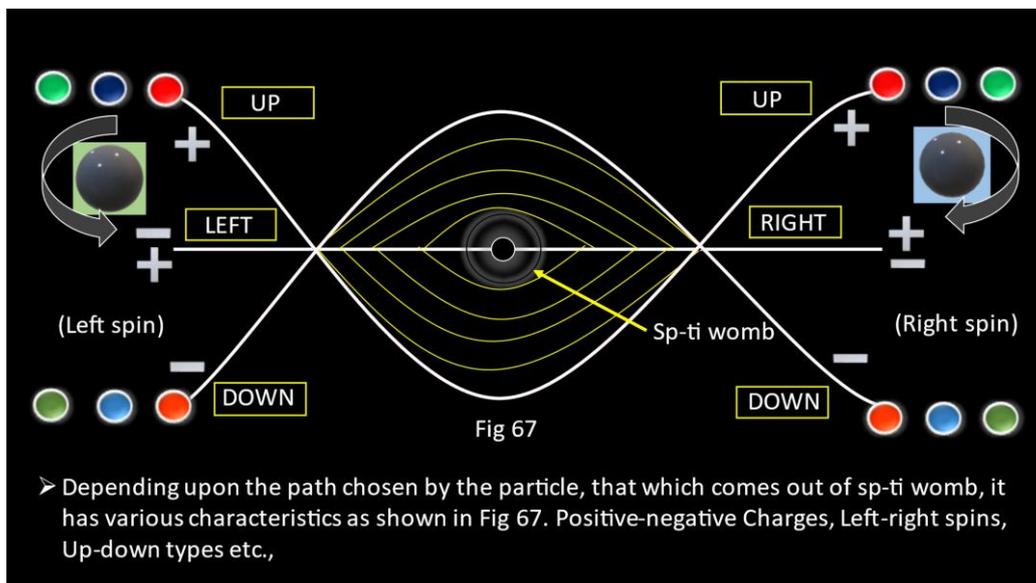
3.4. Point of Sp-ti Nucleus Formation

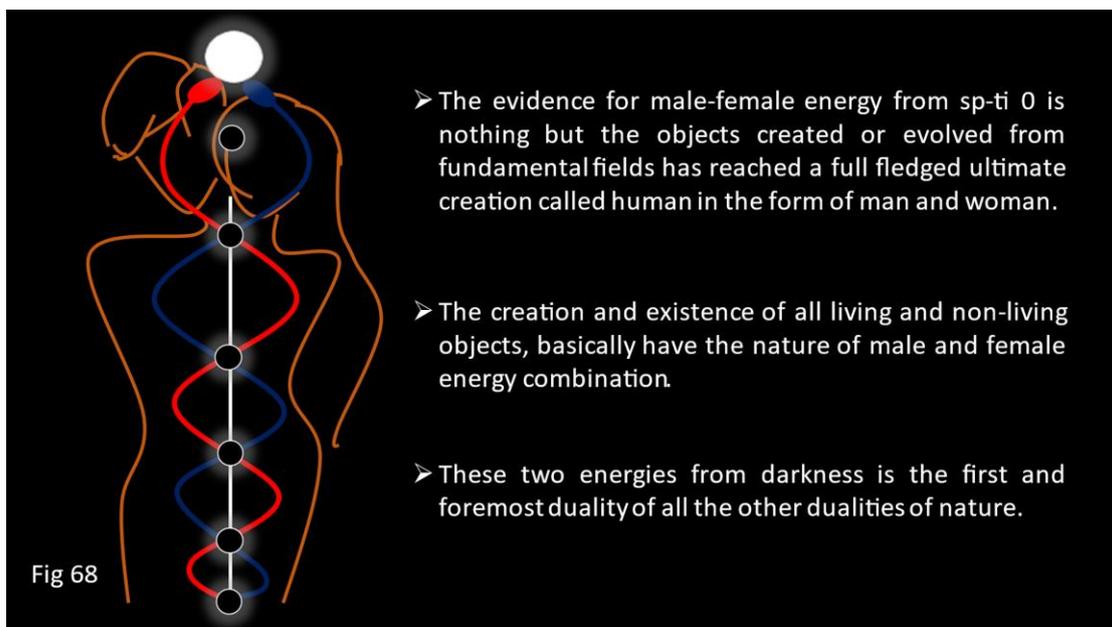


4. PARTICLES EVOLVING FROM SP-TI WOMB

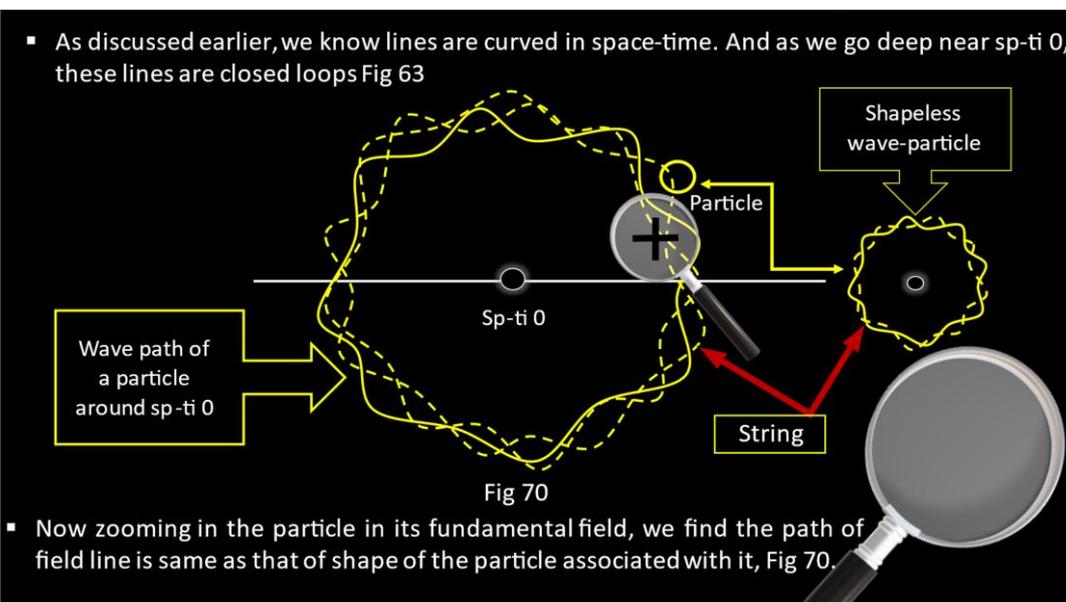
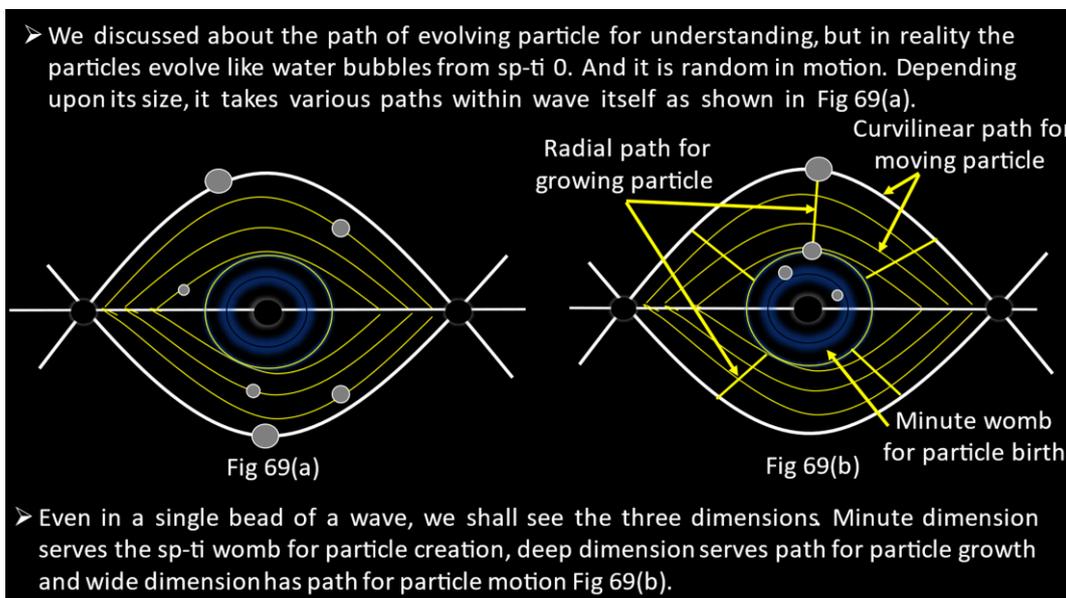


4.1. Characteristics of evolving particles





4.2. Path of Evolving Particles in Space-Time



5. SP-TI POND

- Thus, as both particles and the fields have waveforms, the space-time could be represented as sp-ti pond, Fig 71.



Fig 71

- But to differentiate between various particles and fundamental fields of space-time we shall use colors as shown in Fig 72.

5.1. Wave-Particle Duality

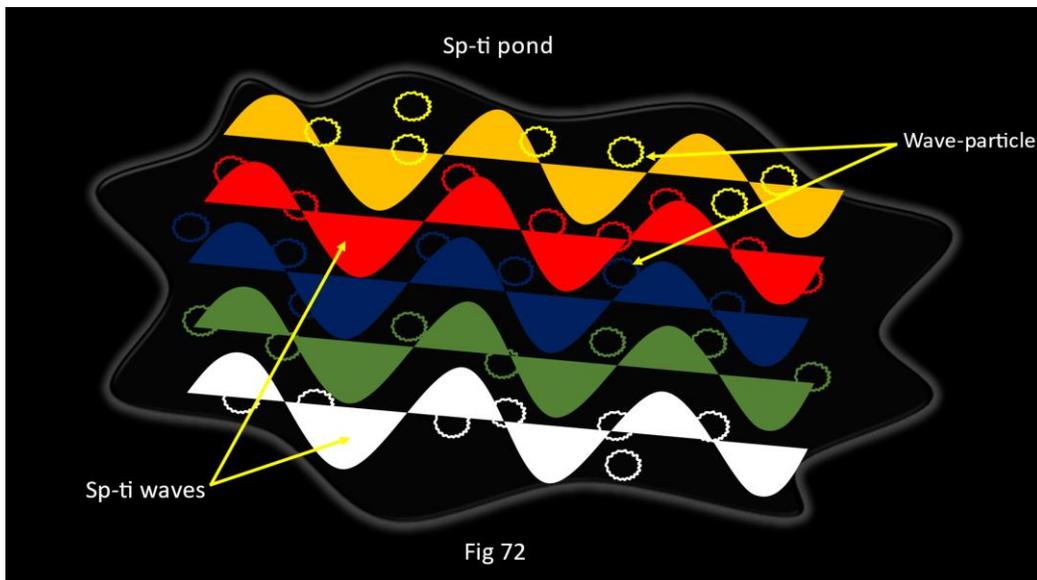


Fig 72

- Sp-ti pond looks like mixed color paints in a pool of water.

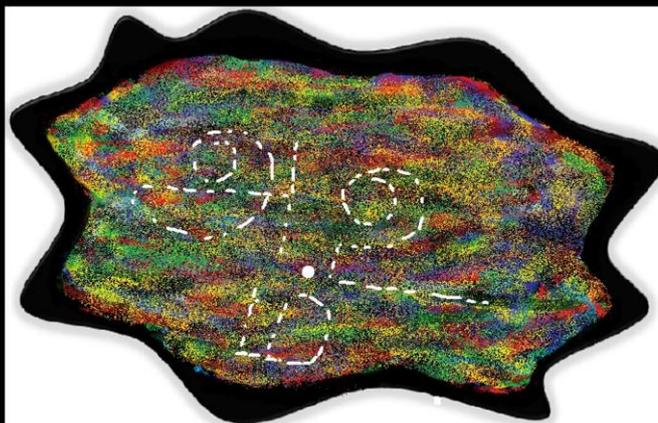
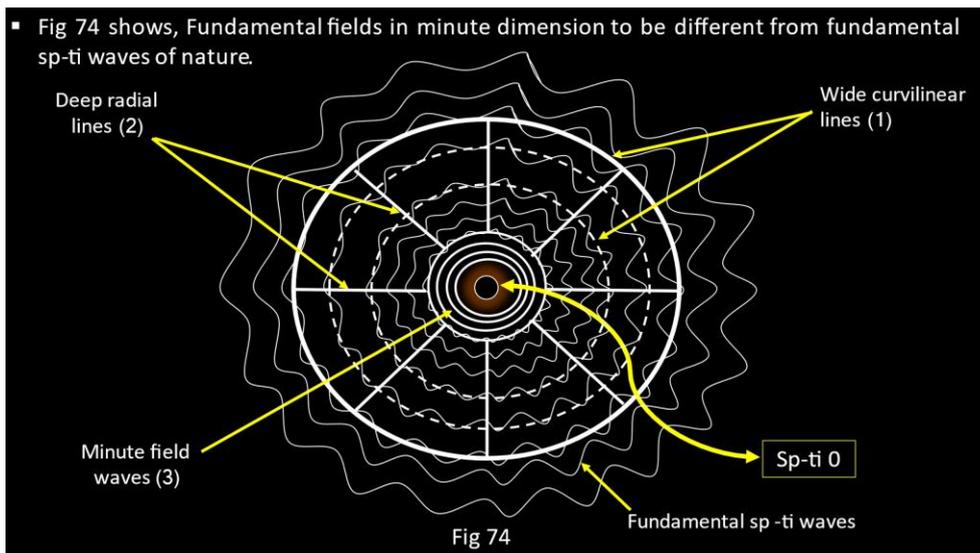


Fig 73

- Letters written in the pond denotes fundamental sound (basic notes) associated with dimensions.

5.2. Representation of Three Real Dimension in Space-Time



6. TABLE OF REAL DIMENSIONS SHALL BE FURTHER FILLED OR EXTENDED AS FOLLOWS

Table of new discovered dimensions in space science			
S. No.	Real Dimensions of space-time (In terms of Aspects)	Path / Nature	Object oriented dimensions in space-time (In terms of Measurements)
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			Radius R (Wide)
2	Deep	Radial	Deep Radius r_d (Deep)
3	Minute	Oscillation	Waveform (Minute)

7. DISCUSSION AND CONCLUSION

Points to remember

- 1) What is the actual incompatibility between general relativity (applicable only for macro-object) and quantum mechanics of nano objects or fundamental particles?
- 2) Gravitation of macro-objects could be formulated for studies on assumptions and known observations. But the gravity at particle level is unknown, as it is not extended with the same working from large scale objects.
- 3) In the above study we have seen the drawings showing the particles evolving from sp-ti 0 and its path of motion in existence. Also, particles are said to evolve like bubbles from fundamental fields of sp-ti pond. Means, quantum gravity is not beginning with creation and motion of fundamental particles but must be even beyond this working.
- 4) Quantum gravity shall be discussed in detail in fore coming journals with complete study of gravitation. Now, what are the other reasons for incompatibility? It is nothing but the behavior of objects or particles at quantum scale which is totally different from large scale objects obeying general laws of physics.
- 5) The mysteries of particle science such as dual nature of a particle to behave as a particle as well as wave, wave collapsing to particle when observed, super-position, quantum entanglement etc., shall be revealed with real dimensions of space-time and hence the

difference between general physics and quantum physics is solved in absolute (to be published as continuation study).

- 6) Sp-ti waves exist in pairs as male-female waves responsible to carry male and female dark energies from sp-ti 0 to conceive the fundamental particles.
- 7) Third dimension of space-time actually implies the distribution of sp-ti 0 points to fill the entire existence which in turn means, the three real dimensions are blended and exists at every point of space-time.
- 8) The in and out; boundary of space-time is still not solved, even with third dimension, shall be taken forward to arrive the solution with fourth dimension. However, space-time is explained to be a sp-ti pond which is a pool of mixed colors representing fundamental fields.
- 9) **Important note:** Sp-ti waves are differentiated from fundamental fields as medium of space-time, holding the essence of particles as shown in Fig 74. Means sp-ti waves are primordial base for fundamental fields of particles (minute dimension).
- 10) A particle prior to its combination with other particles to become or grow into a destined macro-object is called as 'wave-particle' associated with its field, this is in fact the dual nature of a particle, which shall be discussed with more detailed drawings.
- 11) **Conclusion:** Now, in this journal we shall conclude that macro-objects are bending the space-time lines whereas the particles are not bending it and visualized to be floating along space-time lines (waves).
- 12) Thus, the incompatibility between general theory of relativity and quantum mechanics is solved through scientific drawings based on real dimensions of space-time.

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[4] Self-reference2: Length contraction and time dilation are experimental but non-physical variations in space-time, Volume-9, Issue-8, 2022. (International journal of advanced research in physical science (IJARPS) – www.arcjournals.org).

AUTHOR'S BIOGRAPHY



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With self-reference, I have my original research work (Fundamental drawings) of "Particle physics based on real dimensions of space-time"

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