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 absoluto. 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-ki 0, sp-ki waves, sp-ki 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-ki 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.

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1.1 Table of Real Dimensions

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<td></td>
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</tr>
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- 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)](image)

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

![Fig 51](image)

- 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

Fig 52 shows a inner dotted lines, whose region has a dimension around the sp-ti 0. This dimension governs the fundamental particles of nature. As we said before, observing an object at a different dimension is not actually accessing the dimension itself.

Numerous wide discs constitute a spherical Universe

Fig 52

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

Fig 53(34)

- 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

(Large object)

(Unbent sp-ti line)

(Small object)

(Particle)

(Range of Large to small objects)

Sp-ti fundamental field line

Fig 54

- 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

- So, let us stop the radial lines of deep dimension somewhere around sp-ti 0, leaving some blank space for third dimension as shown in Fig 55.

- As it is clear, the minute particles does not bend the sp-ti lines, the elasticity could be felt as waveform as shown in Fig 56.

- For simplicity, the main difference between a small object and a minute object is, sp-ti lines are unbent by the particles, only when they build up through combinations, they start bending the lines.

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

- Clearly there is a range of small to large objects, is shown in Fig 57, beyond which minute objects are said to be floating in sp-ti fundamental waves. This region of waves available for minute objects is called ‘Third dimension of space-time’.

Figure 55: Third Dimension of space-time

Figure 56: Sp-ti 0 axis or sp-ti fundamental line

Figure 57: Deep radial line(2) Wide curvilinear line(1)

(Range of Large to small objects) Minute wave(3)

Sp-ti 0
3.1. Representation of Real Dimensions

> For our understanding, we shall consider the three real dimensions as cubes, that are one within the other as shown in Fig 59.

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

3.2. Sp-ti Waves

> Fig 60, We know sea waves hitting the shores, which could be represented by a single wave line. But unlike sea waves, sp-ti waves are multi-dimensional waves which requires a minimum of one pair of wave lines as shown in Fig 61.

(Single line drawings shall be considered to have drawn in space-time itself)
3.3. No Point of Floating in Space-Time

➢ Also, the sp-ti waves have no shores to hit and are said to be standing waves, oscillating in same position. Fig 62 shows function of opening and closing of a wave about the sp-ti 0 axis with sp-ti 0s in it.

➢ Now, we will see, how a particle is connected to its fundamental field wave. As space-time fabrication is multi-dimensional, we know, the object could not sag in any direction.

(As space-time is multi-dimensional)

No point of sagging

➢ Hence, the lines are shown to enter the object in all the direction to meet at sp-ti 0 inside the object. Or even it could be stated that sp-ti lines are emerging from 0 through the body of the object and then spreads or gets connected in space-time grid (ref Fig 53(34)).

➢ So, again to understand the connection between minute object and its field wave, are we going to insert the sp-ti lines or string to enter into the particle also? No. This time we shall think that a particle must have come or evolved from sp-ti 0.

➢ And same like before, a minute object in multi-dimensional wave has no point of floating as shown in Fig 64. We will see the particle evolving from sp-ti 0 in detail.
3.4. Point of Sp-ti Nucleus Formation

4. PARTICLES EVOLVING FROM SP-TI WOMB

4.1. Characteristics of evolving particles

- Depending upon the path chosen by the particle, that which comes out of sp-ti womb, it has various characteristics as shown in Fig 67. Positive-negative Charges, Left-right spins, Up-down types etc.,
4.2. Path of Evolving Particles in Space-Time

- We discussed about the path of evolving particle for understanding, but in reality the particles evolve like water bubbles from sp-ti 0. And it is random in motion. Depending upon its size, it takes various paths within wave itself as shown in Fig 69(a).

- Even in a single bead of a wave, we shall see the three dimensions. Minute dimension serves the sp-ti womb for particle creation, deep dimension serves path for particle growth and wide dimension has path for particle motion Fig 69(b).

- As discussed earlier, we know lines are curved in space-time. And as we go deep near sp-ti 0, these lines are closed loops Fig 63

- Now zooming in the particle in its fundamental field, we find the path of field line is same as that of shape of the particle associated with it, Fig 70.
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](image)

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

![Fig 72](image)

5.1. Wave-Particle Duality

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

![Fig 73](image)

- Letters written in the pond denotes fundamental sound (basic notes) associated with dimensions.
General Relativity Vs Quantum Mechanics, Incompatibility Solved with Real Dimensions of Space-Time

5.2. Representation of Three Real Dimension in Space-Time

![Diagram showing fundamental fields in minute dimension to be different from fundamental SP-TI waves of nature.](image)

6. **Table of Real Dimensions Shall Be Further Filled or Extended as Follows**

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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 absolution (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.

**REFERENCES**

[1] Physics text books of high school and college syllabus, referred for the scientific terms such as length contraction and time dilation, discussions on incompatibility between macro and nano objects etc., in the existing studies.


**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”

**Citation:** Prabhakaran Natesan (2022) “General Relativity Vs Quantum Mechanics, Incompatibility Solved with Real Dimensions of Space-Time” International Journal of Advanced Research in Physical Science (IJARPS) 9(9), pp.1-11, 2022.

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