

Fourth Dimension of Space-Time - Study of Gravitation; Part-1

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Abstract: The fourth dimension of space-time is unimaginable from human point of view, as the human perspective is limited to visualize three dimensions only. However, there are only two more main aspects in fourth dimension, left for completion of space science study and so, we could manage to represent the same, along with three dimensions, discussed so far. From $sp-ti\ 0$, the first emerging dual aspects are gravitation and orbitation. We know it is impossible to draw a straight line in space-time, as sky is a curvature (wide dimension). As we have seen that $sp-ti\ 0s$ are distributed points in the entire existence, each point has a spiral line terminating to zero. We have solved the incompatibility between general relativity (Wide-deep) and Quantum mechanics (minute) through drawings based on three discovered real dimensions. This journal has fourth dimensional drawings and explanations, which is even beyond quantum science and thus contains the major study of physics called 'gravitation'.

Key points:

- (i) Same like space-time, gravitation-orbitation is also a dual aspect in fourth dimension such that one factor does not exist without the other.
- (ii) Gravitation and orbitation together is an orientation (like web network) at the background of three real dimensions constituting the objects. These dual aspects are perpendicular to each other in space-time, shall be compared with latitude and longitudinal lines for imagination.
- (iii) As there is no straight line in space-time, it is also true that there is no circle in existence. In fact, in fourth dimension, a line and a circle are same in terms of spiral winding, terminating to or emerging from $sp-ti\ 0$ (new for studies).
- (iv) Thus, for our understanding, we distinguish gravitation as a line and orbitation as a circle in the following drawings. Also, we see how the geometry of line and circle are said to be the same in 4D.

Keywords: Line of Gravitation, Circle of Orbitation, primal gravitation, great orbit, local gravity, local orbit, quantum gravity, quantum tunnel, quantum black holes, open black holes, $sp-ti$ bubbles, zero-dimension, singularity, dimensional $sp-ti\ 0s$, male-female $sp-ti$ waves, $sp-ti\ 0$, $sp-ti\ 0$ axis, $sp-ti$ grid.

1. INTRODUCTION

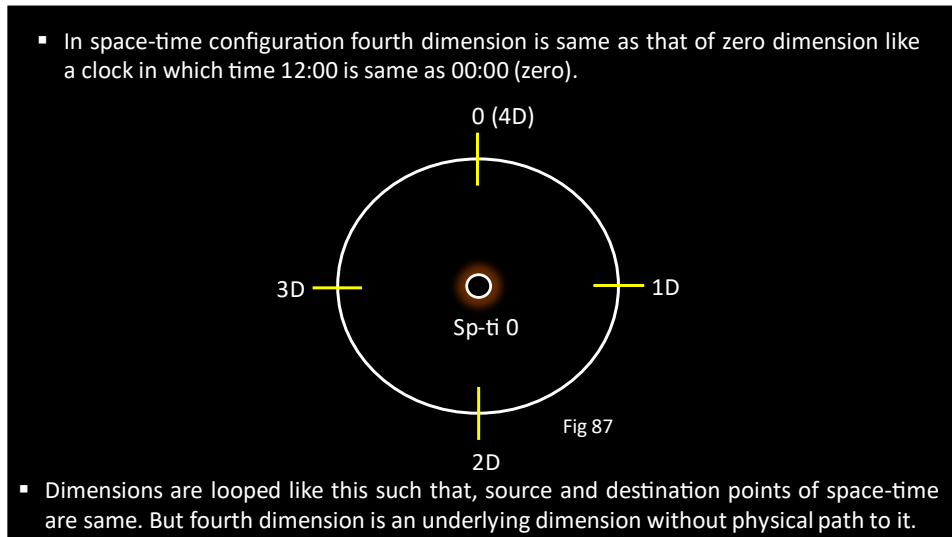
- What is fourth dimension? Is it about a new complicated geometry? Answer is no, fourth dimension is an underlying nature of space-time, blending the three real dimensions such as wide, deep and minute dimensions. It makes the three dimensions to exist undistinguishably.
- Gravitation and orbitation does not constitute fourth dimension. In fact, these two aspects arise or emerge out as duality (hidden), through the three blended dimensions.
- But existing studies imagine fourth dimension to be a projection of third dimension. For example, A cube in 3D is geometrically projected to obtain an object called 'tesseract' in 4D.
- In our journals, we are entering into fourth dimension by following the leads such as gravitation and orbitation whose existence is not physical, although experienced in life.

1.1 Representation of Four Real Dimensions (Fig NO.86 - PREVIOUS PAPER)

Important notes:

- The existing ideas of human, thinks for higher dimensions like fourth, fifth, sixth and so on, without a basic reason. Dimensions need not necessarily be imagined based on geometry. Thus, we have derived it in terms of aspects of space-time.

- We can clearly understand that gravitation is beyond the three real dimensions discussed so far and must be serving the background of existence. Hence considering these hidden aspects, we are further heading to fourth dimension, which in turn is found to be the source and destination of space-time. Drawings in this journal are self-explanatory.

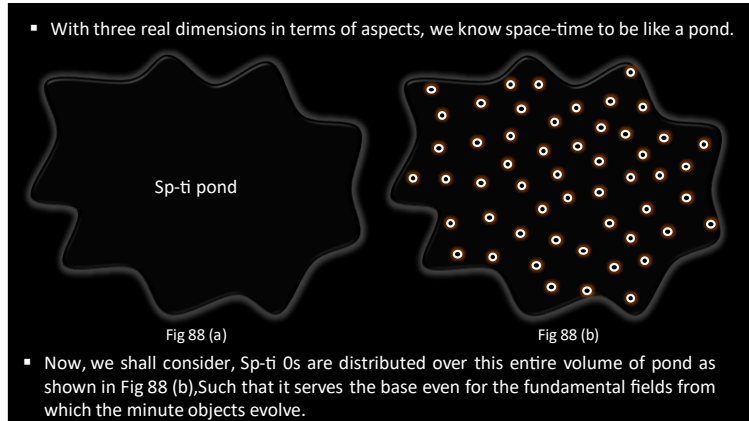


1.2 Table of Real Dimensions

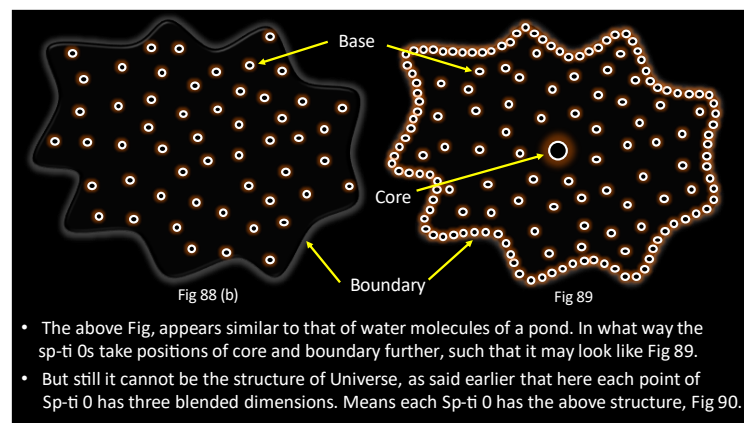
Table of new discovered dimensions in space science			
S. No.	Real Dimensions of space-time (In terms of Aspects)	Path / Nature	Object oriented dimensions in space-time (In terms of Measurements)
1	Wide	Curvilinear	Length L (Wide)
			Width W (Wide)
			Height H (Wide)
			Radius R (Wide)
2	Deep	Radial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

Table of new discovered dimensions in space science		
S. No.	Real Dimensions of space-time (In terms of Aspects)	Path through different positions of Sp-ti 0
4	Gravitation & Orbitation are the dual aspects of space-time in fourth dimension	Core
		Base
		Boundary

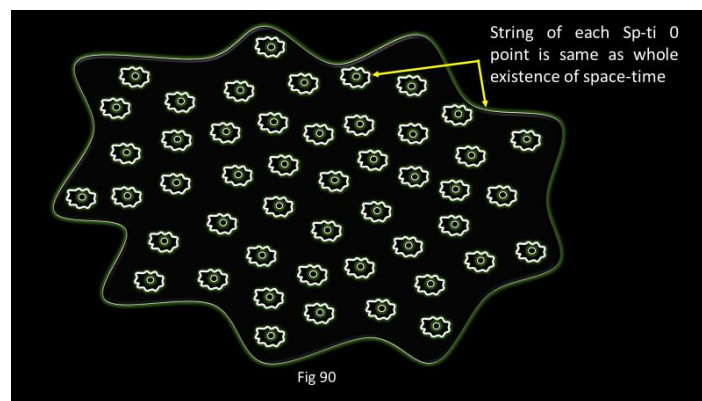
1.3 Positions of Sp-Ti 0s



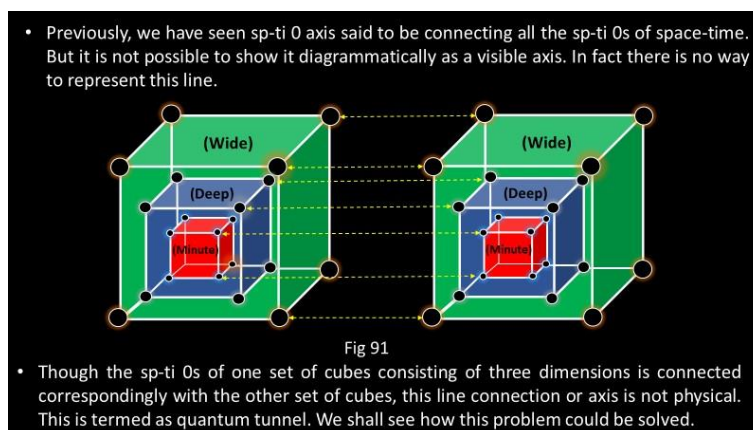
(Single line drawings shall be considered to have drawn in space-time itself)



2. EVERY SP-TI 0S & THE WHOLE EXISTENCE

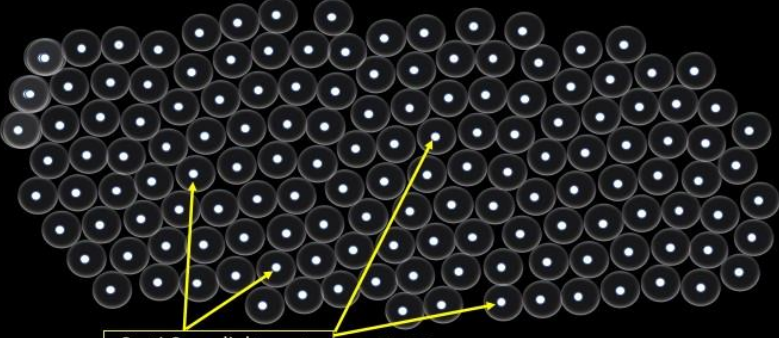


2.1 Connection Between Dimensional Cubes



2.2 Sp-Ti Bubbles

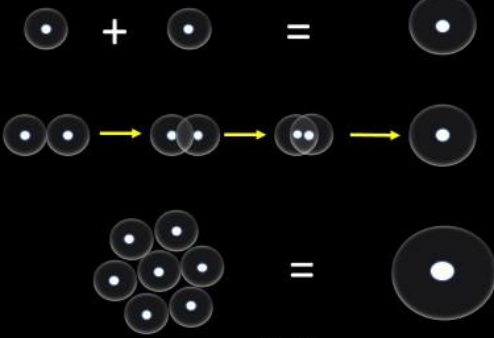
- For a fourth dimensional view, let us break this darkness into Sp-ti bubbles, with Sp-ti 0s at its centers as white dots means light spots emerging in darkness, as shown in Fig 92.



- We said fourth dimension is same as zero dimension. But there could be a difference for our easy understanding. Fourth dimension here means a multiple reflection of Sp-ti 0 which is a singularity in zero dimension. Let us see how is this possible.

2.3 Fourth Dimension to Zero Dimension

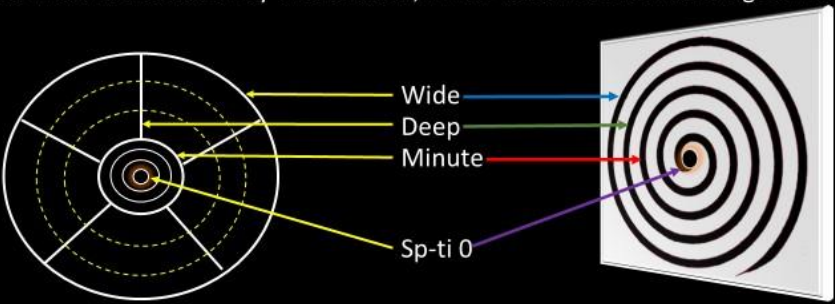
- Consider the darkness as Sp-ti bubbles as shown in Fig 93. This conversion is from fourth dimension to zero dimension of space-time. But Zero to fourth dimension involves evolution, through the path of three real dimensions(aspects) discussed earlier.



- However this time, starting from zero dimension, the first dimension would be minute(1) followed by deep(2) and then wide(3) dimensions.

3. BLENDING OF THREE REAL DIMENSIONS

- We have seen the three dimensions(aspects) of space-time with geometrical shapes such as line and circle. But in reality, one cannot draw a straight line or circle either. So, we should find the absolute way of evolution, which does not even have a geometry.



- Fig 94(b) shows that, all the three dimensions shall be indicated with the same spiral line evolving from Sp-ti 0. Suitable for blended dimensions without differentiation.

- Applying three blended dimensions for each Sp-ti 0 points, the existence of space-time appears like Fig 95.

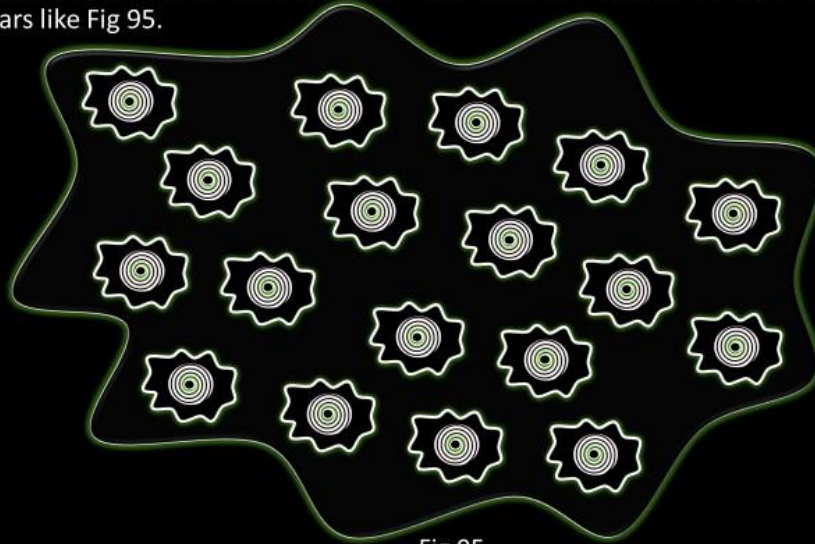


Fig 95

3.1 4d In Simple Zero-Dimension

- Now, the Sp-ti 0s with three non geometrical dimensions(aspects) in fourth dimensional view shall be imagined, as shown in Fig 96.

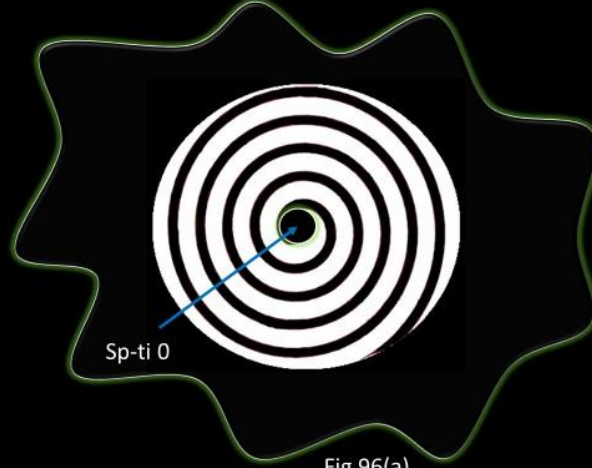


Fig 96(a)

3.2 Point of Separation

- Despite of all the Sp-ti 0s are connected to behave with oneness in fourth dimension, they must be somehow independent of each other so that different events, happenings are possible in the existence.

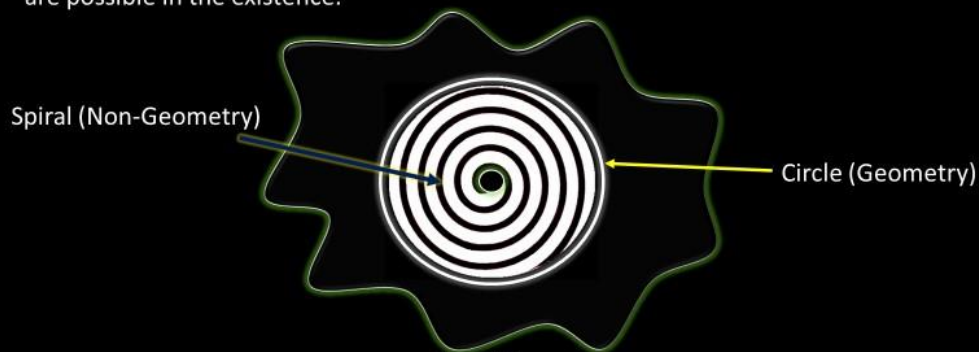


Fig 96(b)

- For which there must be a point that separates the geometrical and non-geometrical aspects of space-time. In fig 96, the evolving spiral line(Non-geometrical) must cut off, whose edge forms a circle(Geometry).

3.3 Representation of Dual Aspects

- From this cutting edge arises the main dual aspects of space-time called Gravitation and orbitation. These two main lines are multidimensionally perpendicular to each other at any point, constituting the space-time grid.

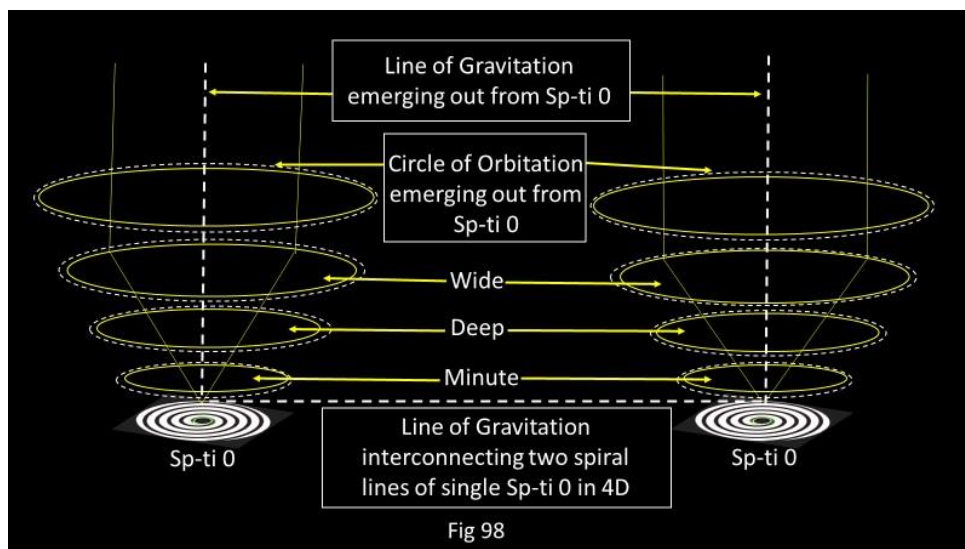
Gravitation(Line) Orbitation(Circle)

Emerging Sp-ti waves like hair split

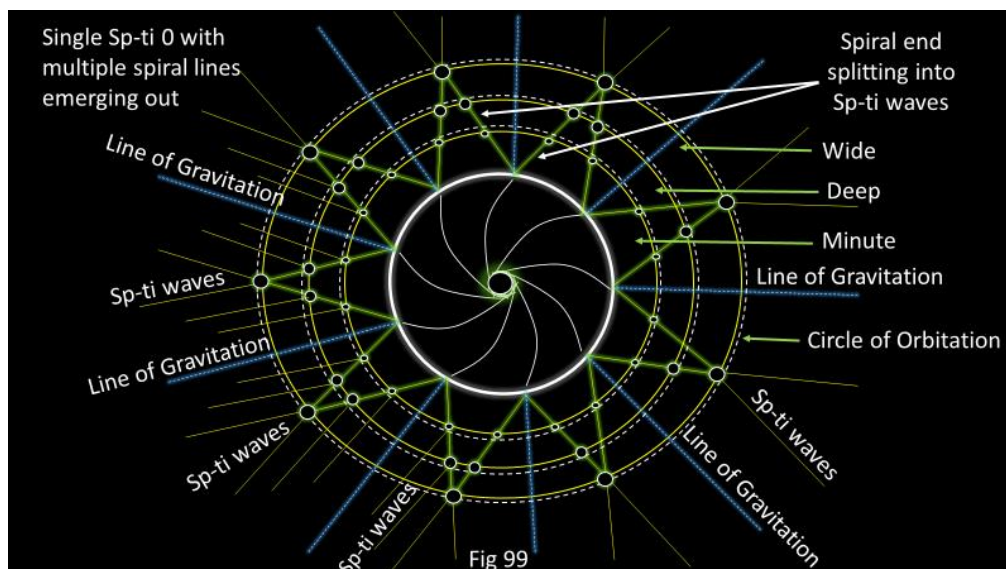
Fig 97

- Here the spiral line can be considered as a circle as well a line. So, for our understanding, consider the orbitation to be the circle and gravitation being the line. Circles are formed in concentric manner while the line of gravitation emerges from spiral end.

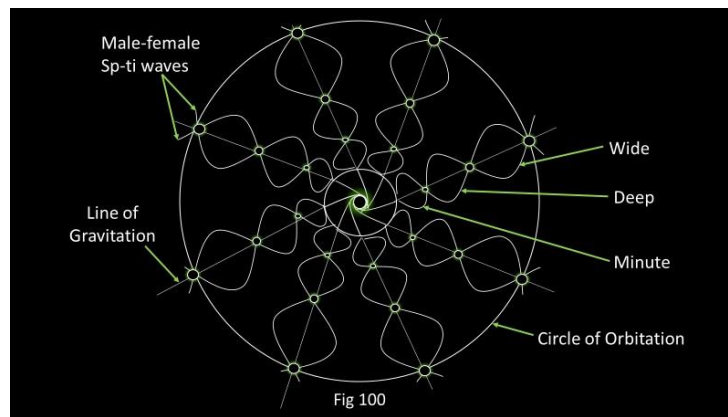
(Single line drawings shall be considered to have drawn in space-time itself)



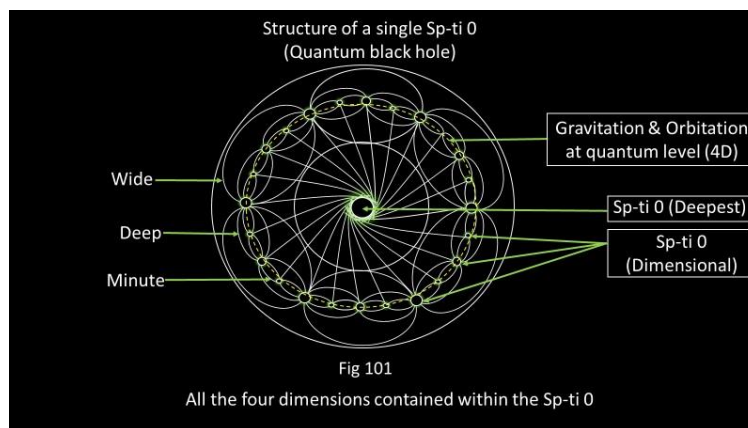
4. GRAVITATION (LINE-LIKE) - SP-TI WAVES – ORBITATION (CIRCLE-LIKE)



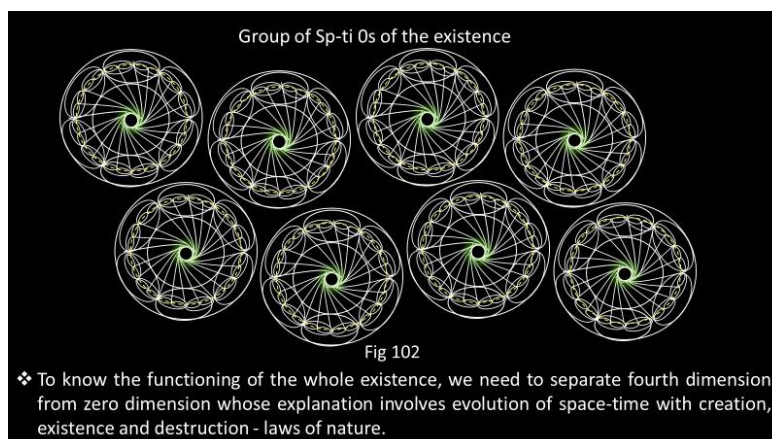
(Single line drawings shall be considered to have drawn in space-time itself)



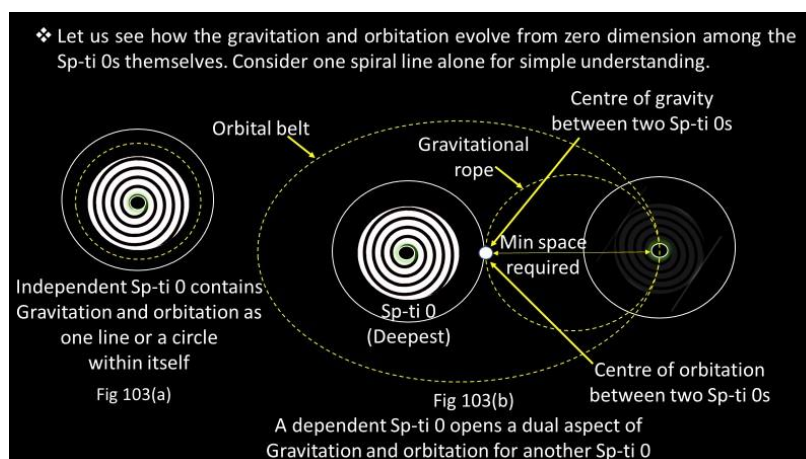
4.1 Structure of A Quantum Black Hole



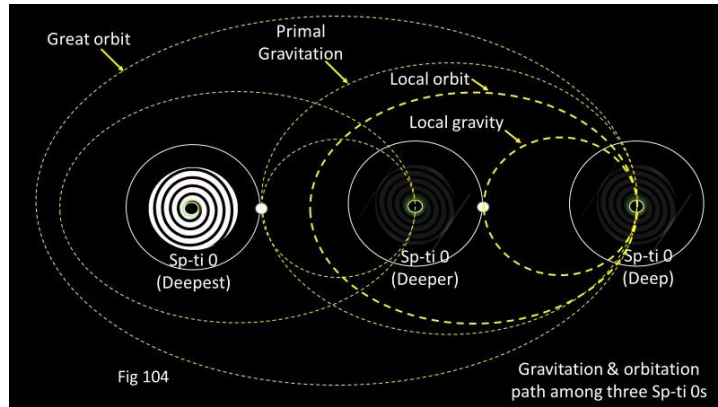
(Single line drawings shall be considered to have drawn in space-time itself)



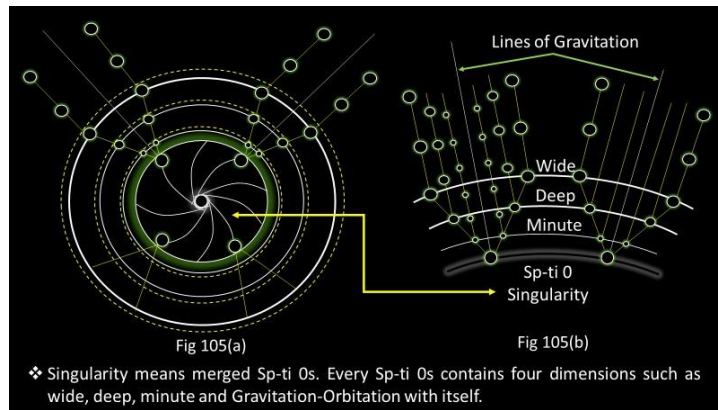
4.2 Primal Gravitation and Great Orbit



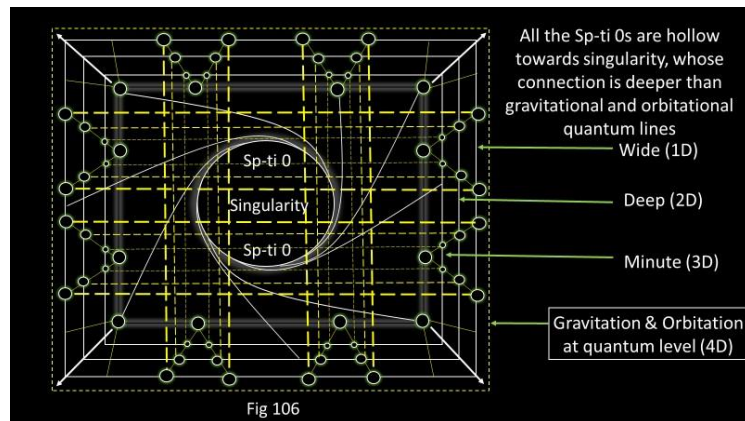
[The content (drawings and explanations of gravitation) of this journal is a self-discovery]



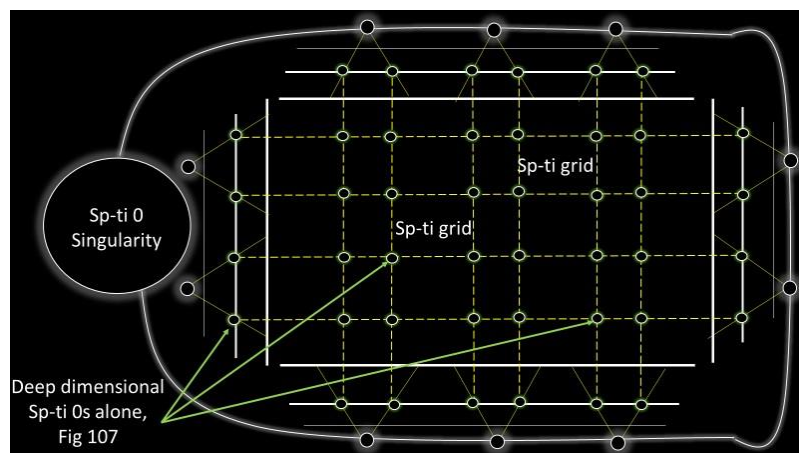
5. SINGULARITY



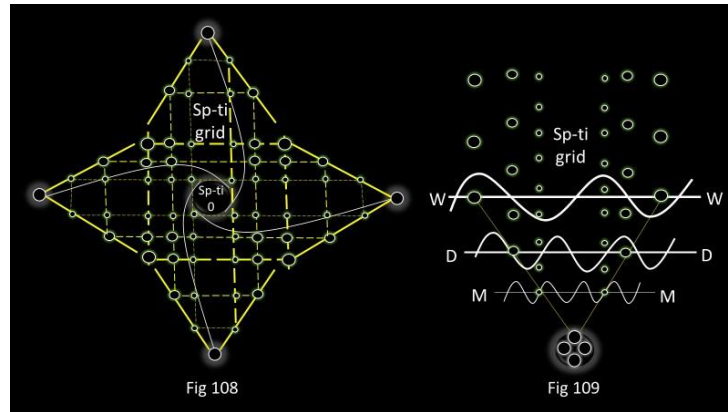
[The content (drawings and explanations of gravitation) of this journal is a self-discovery]



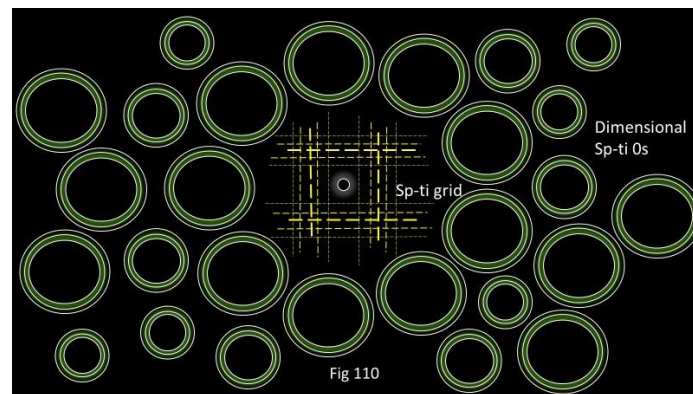
5.1 Formation of Sp-Ti Grid



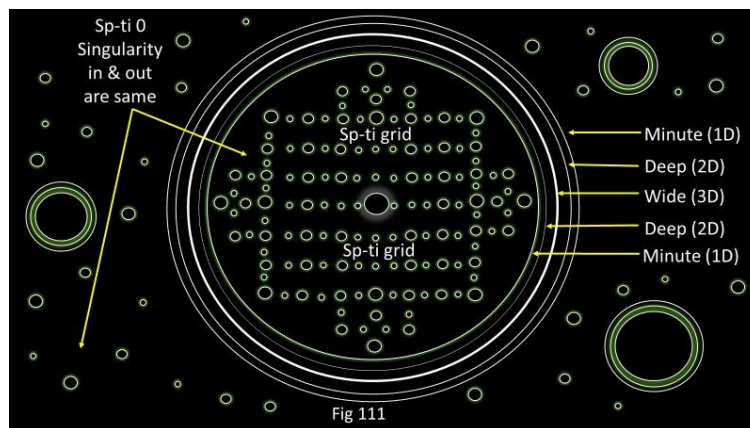
[The content (drawings and explanations of gravitation) of this journal is a self-discovery]



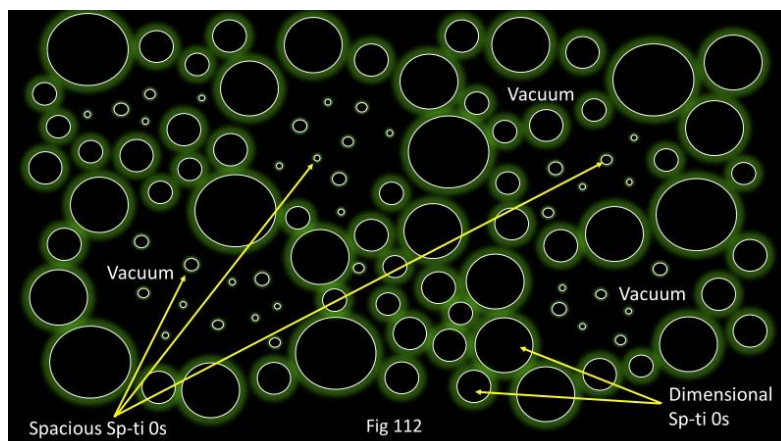
5.2 Boundary of Space-Time – Duality Is Solved



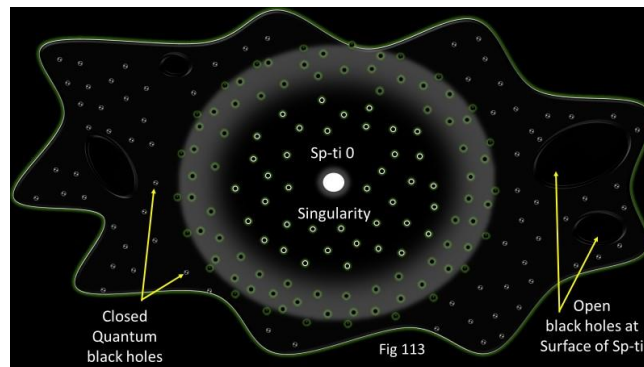
[The content (drawings and explanations of gravitation) of this journal is a self-discovery]



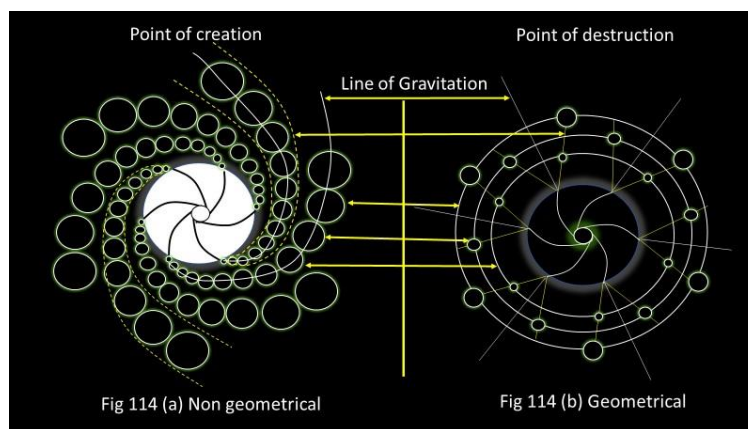
5.3 Vacuum and Black Holes



[The content (drawings and explanations of gravitation) of this journal is a self-discovery.]

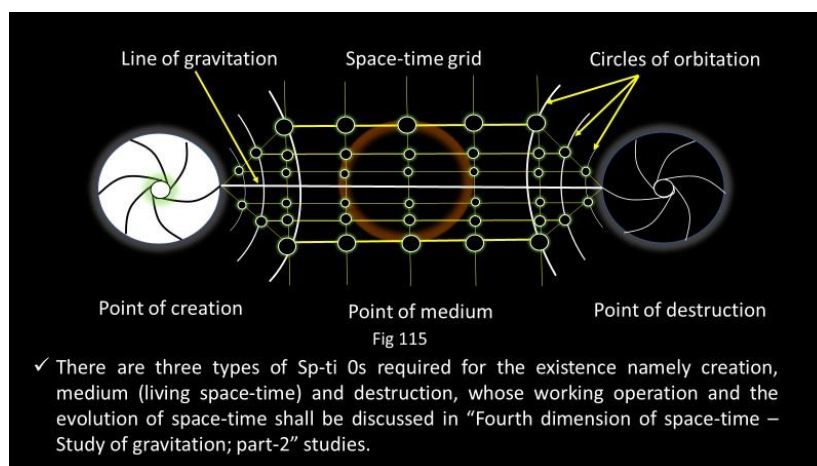


6. GEOMETRY FROM NON-GEOMETRICAL RAW NATURE OF SP-TI



[The content (drawings and explanations of gravitation) of this journal is a self-discovery]

6.1 Sp-Ti Medium with Hidden Points of Creation and Destruction



6.2 Re-Arranged and Completed 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 perspective in space-time (Physical understanding)
0	Space-time	Zero / Singularity	Base (0D)
1	Minute	Oscillation	Waveform (1D)
2	Deep	Radial	Deep Radius rd (2D)
3	Wide	Curvilinear	Length L, Width W (3D)
			Height H, Radius R (3D)
4 (a)	Gravitation	Line	Rope (4D)
4 (b)	Orbitation	Circle	Belt (4D)

7. DISCUSSION AND CONCLUSION

History about gravitation

- Earlier, objects thrown up in the air, falling back to the ground was thought to be a gravitational force exerted by the earth to keep the objects close to it, even the ocean and atmosphere surrounding the earth.
- When it comes to earth and the moon in outer space, it was described that gravitational force is common between the objects. And masses of the two objects m_1 and m_2 are considered for gravitation, along with the distance between the objects also, to be a factor affecting this force.
- Later, space-time was discovered to be a single entity and imagined like a fabric holding the objects. Gravitation was imagined as a bending field due to the curve(sag) in the fabric caused by the objects with varying masses, where the object of less mass has a tendency to fall into the more massive object or revolve around it, if it is beyond certain limit.
- Hence, now mass of only one object is considered, that which causes a gravitational effect over other objects of less masses, could be shown in the existing studies. And distance is not necessarily a factor, unless orbitation of secondary object is accounted.

New proposed study

- Now, this journal contains the new study of gravitation, which does not require mass or even the object to exist, as gravitation is independent of objects in space-time. And mass of the object is just being a factor to experience gravitation. Gravitation is understood at point level (quantum gravity) in terms of sp-ti 0s.

Important Notes:

- Gravitation is a line emerging from singularity at depth to the surface, to hold the floating objects in space-time and thus constituting the life. At no point, gravitation is a wave or ripple in space-time even at quantum level whose more drawings are available in part-2.
- Considering space zero (Sp-ti 0) which starts even from the edge of a black hole, means there is no space available for the objects to enter into it. Thus, black hole is hollow for space-time structure only and not for objects. Hollowness has processing dark matter.

Points to remember

- Fourth dimension is thought to exist, to understand mainly the mystery of quantum entanglement between two particles. The above study shows gravitation and orbitation along with it.
- Nature of fourth dimension is a background play behind three blended real dimensions and it is associated with every point of space-time (sp-ti 0s).
- Fourth dimension shall show all objects of the existence to be different from each other in terms of characteristics, size and color, eventually every object to be same in singularity by neglecting those differences in them. Means it is the possibility of one absolute object (God nature) to exist everywhere.
- Raw nature of space-time is non-geometrical with blended dimensions but its working is geometrical through circle and line.
- Vacuum constitute the sp-ti medium in which space-time grid is assumed. Nature of vacuum is a gaseous form of darkness in which sp-ti 0s are significant points with mobilization, more basic studies available in part-2.
- Obviously, there are points of separation to exist as loop holes between non-geometrical nature and geometrical behavior of space-time. These loop holes constitute the path for invisible aspects such as gravitation and orbitation connecting the holes, as lines and circles respectively.
- These loop holes also enable, disappearing of particles at one point and its reappearance at some other point in space-time. Also, the quantum entanglement between the particles.

- The group of sp-ti 0s merged together to constitute big sp-ti 0s called open black holes. Whereas the individual sp-ti 0s constituting sp-ti medium are said to be closed black holes and structure of one such quantum black hole is shown in this journal.
- The boundary line, wrongly assumed with the duality of in & out of observable Universe is solved in singularity. Also, the existing way of imagination in scientific studies fails at the point where observer and the observing object are same, as observer is captured to be one of the objects in sp-ti frames, explained in previous journal already (particle physics).
- How gravitation and orbitation build up from the depth of sp-ti 0 is shown, leaving behind 'Primal gravitation' and 'Great orbit' respectively. Means these two aspects are rooted from the depth of space-time (sp-ti 0) to the surface of existence holding the objects.
- Human perspective to assume space-time (life) to be well within a circle, has all kinds of geometry for empirical calculations and expressions. However, if non-geometrical nature is considered, laws of physics meet a point beyond which it fails, as it has to collapse into zero (singularity).

8. CONCLUSION

Loop holes are yet does not mean the special holes, to be found in space-time. These holes fall as gap behind evolution of geometrical patterns (shapes of life) that gets detached from raw nature and then whose picture evolve to the surface of space-time like bubble. All the secrets of life such as unpredictable events, unknown causes, purpose, destiny and path to absolution are preserved in fourth dimension, which are more than a physical science. More detailed drawings in part-2 studies, to be continued...

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With self-reference, I publish my original research work (Fundamental drawings) of "Fourth dimension of space-time – The complete study of gravitation"

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