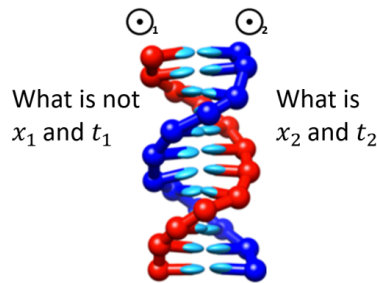# The Unification of Quantum Mechanics, General Relativity and Consciousness

Relativity of Consciousness

It is well known that, as directly sensed and experienced in consciousness, time is highly variable and relative to conditions (e.g., a given period may be felt to be short or long by different people, or even by the same person, according to the interests of the different people concerned). On the other hand, it seems in common experience that physical time is absolute and does not depend on conditions. However, one of the most important implications of the theory of relativity is that physical time is in fact relative, in the sense that it may vary according to the speed of the observer. What is crucial in the present context is that, according to the theory of relativity, a sharp distinction between space and time can not be maintained (except as an approximation, valid at velocities small compared with that of light). Thus, since the quantum theory implies that elements that are separated in space are generally non-causally and non-locally related projections of a higher-dimensional reality, it follows that moments separated in time are also such projections of this reality.

One must then go on to a consideration of time as a projection of multidimensional reality into a sequence of moments.

NOE postulates that time is quantised and that the Chronon $\odot$ is a 10 dimensional, superluminal, acoustic fracton that emerges from entanglement.

$\odot_1$ $\odot_2$

What is not   What is
x_1 and t_1 x_2 and t_2

At the simplest level, entanglement is the linking together of the 7th order spirillae from one entity to another and is analogous to the linking of the parents' base in a DNA strand. The chronon is intimately attached to the 7th order spirillae.

When a given moment, say t_2, is present and actual, an earlier moment, such as t_1, is past. That is to say, it is gone, non-existent, never to return. So if we say that the velocity of a particular now (at t_2) is $\left(v = \frac{x_2 - x_1}{t_2 - t_1} \right)$ we are trying to relate what is (i.e. x_2 and t_2) to what is not (i.e., x_1 and t_1).

Therefore, we define consciousness as:

$$\mathfrak{C} = \sum \left(\frac{\Delta x_i}{\Delta t_i} \right) = \sum \frac{V_i S}{m_i} = v_i$$

$$\theta_i = \frac{1}{6\pi\epsilon_i} \frac{e^2}{m_i c^3}$$

Where $\mathfrak{C}$, is consciousness, θ is the chronon (time $-t$), for a 'pilot wave' $\Psi(x_1, x_2 \dots, x_N, t)$ in configuration space, and the de Broglie guidance equation for particle trajectories $x_i(t)$ where the phase $S(x_1, x_2, \dots, x_N, t)$ is locally defined by $S = \hbar \, \mathrm{Im} \ln \Psi$ (so that $\Psi = |\Psi| e^{(i/\hbar)S}$) and by Snell's Law $c = n_{medium} \times c_{medium}$.

As an example, the Solar Logos has a heartbeat every 11 years. Science calls this the solar flare cycle. In reality the Solar Logos is pumping life into the solar system. We live, on average, in only 7 heartbeats for him. He measures time differently from us. Relative to human consciousness - *observer* (v) - *he has greater velocity* (v'). His consciousness lies in a higher plane. That is, the fractal structure, the hierarchy of vibrational modes, is a greater part of the substrate.

The Unification of Quantum Mechanics, General Relativity and Consciousness – An Excerpt from The Secret Doctrine Volume IV, The Nature of Everything[1]

The Five Point Definition of Holistic Quantum Relativity:

1. Holistic Quantum Relativity seeks to integrate Spirituality and Science and also the four forces -- gravity, electro-magnetism, strong and weak forces -- with the unifying fifth force.

2. Holistic Quantum Relativity consists of Einstein's General Theory of Relativity in its *original unaltered form*[2] but enhanced by the mathematical formulation of the well-established phenomenon of spontaneity or consciousness in nature as evidenced in the observed spontaneous expansion of the universe, spontaneous conversion of mass-energy in the wave-particle duality, and spontaneity or consciousness of the human mind.

   3. *Since the original formulation of general relativity remains unaltered, the Holistic Quantum Relativity retains all the validity and predictability of a vast array of scientific experiments and*

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[1] See Holloway, The Secret Doctrine Volume IV, The Nature of Everything (2017) 340-378,
https://docs.com/NOE_Theory/5283/secret-doctrine-volume-iv-the-nature-of-everything

https://www.researchgate.net/publication/316841580_The_Secret_Doctrine_Volume_IV_The_Nature_of_Everything

https://www.academia.edu/32937575/The_Secret_Doctrine_Volume_IV_The_Nature_of_Everything

[2] *Original Papers By A. Einstein And H. Minkowski,* Translated into English by M. N. Sara and S. N. Bose, Lecturers on Physics and Applied Mathematics, University College, of Science, Calcutta University, With A Historical Introduction by P. C. Mahalanobis, Professor of Physics, Presidency College, Calcu. Published by The University of Calcutta, 1920; Library of the Massachusetts Institute of Technology.

For a digital version please see:

Wikisource contributors. "On the Electrodynamics of Moving Bodies (1920 edition)." *Wikisource*. Wikisource, 18 Aug. 2013. 2016.
https://en.wikisource.org/wiki/On_the_Electrodynamics_of_Moving_Bodies_(1920_edition)

It is important to note that in the original 1905 paper Einstein referred to a particle of time. His exact words are frequently edited out in reproductions. Please see Figure 106 Pages 30 and 31 from Einstein's original translated 1905 paper.

10. Dynamics of the Electron (slowly accelerated).

Let us suppose that a point-shaped particle, having the electrical charge e (to be called henceforth the electron) moves in the electromagnetic field; we assume the following about its law of motion.

If the electron be at rest at any definite epoch, then in the next *"particle of time,"* the motion takes place according to the equations

$$m\frac{d^2x}{dt^2} = eX, \qquad m\frac{d^2y}{dt^2} = eY, \qquad m\frac{d^2z}{dt^2} = eZ$$

Where (x, y, z) are the co-ordinates of the electron, and m is its mass.

Let the electron possess the velocity v at a certain epoch of time. Let us now investigate the laws according to which the electron will move in the *'particle of time'* immediately following this epoch.

universe observations. *However, the enhancement or augmentation of general relativity by addition of an additional equation representing spontaneity or consciousness in nature not only resolves its known deficiencies and singularities, but also resolves all inconsistencies with quantum mechanics. Consciousness is quantised by Time and Energy, and then re-presented as Relativity as a Space-Time Continuum connected across multiple planes.* (see Figure 116 Relativity of Consciousness below).

4. Holistic Quantum Relativity provides a mathematical framework that explains the inner workings of quantum mechanics and resolves its own unexplained paradoxes such as the Quantum Measurement or the Observer's Paradox, parallel universe, Heisenberg's uncertainty, non-locality (infinite speed of light as indicated in Figure 115 Index of Refraction and the Speed of Light below) etc. Further, Holistic Relativity resolves the well-known paradoxes of cosmology such as the Big Bang singularity, superluminous inflation, dark energy, dark matter, the paradox of time and evolution, and future of the universe etc.

5. Holistic Quantum Relativity builds a seamless bridge between science, spirituality, and religion resolving their long-standing conflicts related to creator, creation, purpose, meaning, and genuine happiness.
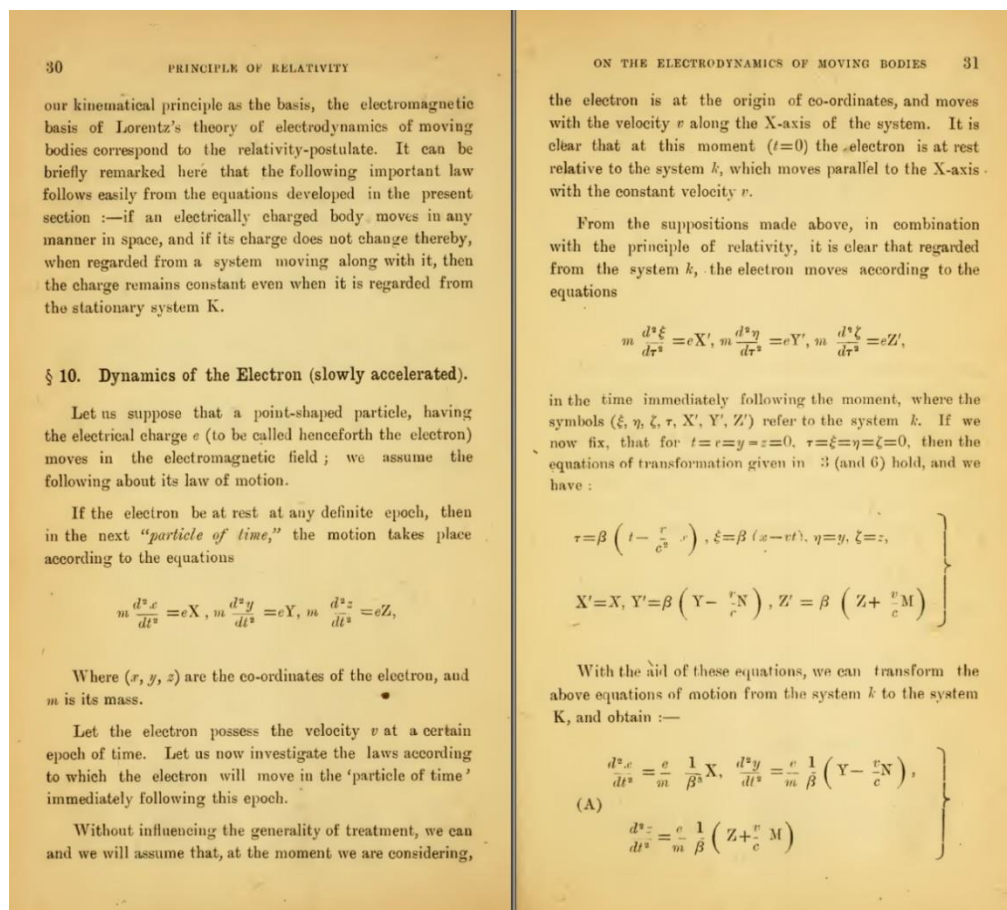

Figure 106 Pages 30 and 31 from Einstein's original translated 1905 paper

Albert Einstein and The Theory of Relativity

Albert Einstein said, "Herr Gott wuerfelt nicht! " which means, "God does not throw dice!" Einstein's theory of relativity deals with Newtonian physics when energies or velocities are near the speed of light. Relativity is usually thought of as modern physics since it was developed at the start of the 20th century and could only be tested in the realm available to scientists by high technology. However, relativity primarily completes the revolution that Newton started and is also highly deterministic as is much of classical physics.

In the holistic viewpoint of relativity theory, concepts such as length, mass and time take on a much more nebulous aspect than they do in the apparently rigid reality of our everyday world. However, what relativity takes away with one hand, it gives back in the form of new and truly fundamental constants and concepts.

The theory of relativity is traditionally broken into two parts, special and general relativity. Special relativity provides a framework for translating physical events and laws into forms appropriate for any inertial frame of reference. General relativity addresses the problem of accelerated motion and gravity.

Our previous posts have elaborated on the quest to unify the four forces -- gravity, electromagnetism (including light), strong and weak forces -- into *one Unified Force utilising the concept of Holistic Quantum Relativity, which hinges on multiple spiritual planes and consciousness levels*. The Great Spiritual Masters refer to multiple planes often: Physical, Astral, Causal (= The Universe); Par Brahmand (= Beyond Universe); and Sach Khand (= True Abode). Sant Mat (The Way of the Saints) has pointed to the Relative Permanence of visible and invisible worlds, and this is also worth noting.

In the ancient Spiritual texts of India and within the Abrahamic faiths, several concepts, metaphors and symbols are presented relating the individual to The Holy Trinity of spirit (Supra-Universal Consciousness, Universal Consciousness and Observer or Individual Consciousness) and to the four forces of matter, with seven the sum of both or the merging of spirit and matter. [3, 4]

Speed of Light Relative to Consciousness

We know that: (1) a human being has approximately 50 beats per minute or 300 heartbeats every hour[5], (2) from Blavatsky[6] that our Solar Logos has a heartbeat once every 11 mortal years, and (3)

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[3] Matai, DK, Holistic Quantum Relativity: Integrating Spirituality and Science (2007),
https://groups.google.com/forum/?hl=en#!forum/holistic-quantum-relativity-hqr

[4] Matai, DK, Holistic Quantum Relativity: Integrating Spirituality and Science (2007),
http://www.mi2g.net/cgi/mi2g/frameset.php?pageid=http%3A//www.mi2g.net/cgi/mi2g/press/140207.php

[5] Normal Heartbeats vary from 60 to 100 beats per minute but for this illustration I am using 50.

[6] Blavatsky, H., The Secret Doctrine, The Synthesis of Science, Religion, and Philosophy, Volume I, Cosmogenesis, Third and Revised Edition. (A. Besant, Editor, & Princeton Theological Seminary Library, Producer) Retrieved January 2, 2013, from Internet Archive, (1893),
https://archive.org/details/secretdoctrinesy01blav

Blavatsky, H., The Secret Doctrine, The Synthesis of Science, Religion, and Philosophy, Volume II, Anthropogenesis, Third and Revised Edition. (A. Besant, Editor, & Princeton Theological Seminary Library

from Ringermacher and Mead's[7] research the Unknown has a heartbeat approximately every 2 Billion years.

Assuming the Speed of Light is Constant on all Planes of Existence

Let's assume that the speed of light c is <u>constant</u> on all planes of existence. Then what is the relative speed of light to that consciousness?

1. Speed of light c *relative* to one human heartbeat where $c=1.08e9$ *km/heartbeat.*

$$\frac{1.08\times10^9 km/hr}{300\ heartbeats} = 3.6\times10^7\ kilometres\ per\ hour\ per\ heartbeat.$$

2. Speed of light c *relative* to one heartbeat of the Solar Logos

One Solar heartbeat = total number of human heartbeats in 11 years = $300\times24\times360\times11 = 28{,}512{,}000$ *human heartbeats*

$$\therefore \frac{1.08\times10^9\ km/hr}{2.8512\times10^7 human\ heartbeats} = 37.87\ kilometres\ per\ hour\ per\ Solar\ heartbeat.$$

3. Speed of light c *relative* to one heartbeat of the UNKNOWN

One UNKOWN heartbeat = total number of human heartbeats in 2×10^9 years = $300\times24\times360\times (2\times10^9) = 5.184\times10^{15}$ *human heartbeats*

$$\therefore \frac{1.08\times10^9}{5.184\times10^{15}} = 2.08\times10^{-7}\ kilometres\ per\ hour\ per\ UNKNOWN\ heartbeat$$

Table 1 Speed of Light Relative to Consciousness

Consciousness Type	Plane of Consciousness from Figure 22, page 118[8]	Heartbeats	Speed of light IF constant - kilometres per hour per heartbeat
Human	5th subplane of Cosmic Physical	300 per hour	3.6×10^7
Solar	Cosmic Mental	1 per 11 years	37.87
Unknown	Cosmic Adi	1 per 2 billion years	2.08×10^{-7}

Producer) Retrieved January 2, 2013, from Internet Archive, (1893), https://archive.org/details/secretdoctrinesy02blav

Blavatsky, H., The Secret Doctrine, The Synthesis of Science, Religion, and Philosophy, Volume III, Occultism, Third and Revised Edition. (A. Besant, Editor, & Princeton Theological Seminary Library, Producer) Retrieved January 2, 2013, from Internet Archive, (1893), https://archive.org/details/secretdoctrinesy03blav

Blavatsky, H., The Secret Doctrine, The Synthesis of Science, Religion, and Philosophy, Index to Vols. I., II. and III., Third and Revised Edition. (A. Besant, Editor, & Princeton Theological Seminary Library, Producer) Retrieved January 2, 2013, from Internet Archive, (1893), https://archive.org/details/indxsecretdoctri00blav

[7] Ringermacher, H. I., and Mead, L. R., Observation of Discrete Oscillations in a Model-Independent Plot of Cosmological Scale Factor versus Lookback Time and Scalar Field Model, 2015 April, *Astronomical Journal*, Vol. **149**, No. 4 137 dx.doi.org/10.1088/0004-6256/149/4/137, Arxiv: arxiv.org/abs/1502.06140 (2015)

[8] See Holloway, The Secret Doctrine Volume IV, The Nature of Everything (2017)

The above table illustrates that not only is length and time relative, as shown by Einstein's general relativity, but the speed of light is also relative. If c is constant for all planes of existence, then for the UNKNOWN light has nearly no speed relative to the E2 plane. However, the table also illustrates that for the speed of light on the Cosmic Adi plane, relative to a human, the speed of light is approaching infinity i.e. light has stopped moving for the Unknown but the speed is infinite for the observer. It should be remembered that we live in the Comic Physical Plane and by analogy relative to the Unknown, the index of refraction is similar to the Rubidium Bose-Einstein condensate of 17647. Note the discussion 'The Fiery' starting on page 305 of The Secret Doctrine Volume IV, The Nature of Everything (the book).

Also, note that the light on the physical plane is a reflection of light from the Cosmic Astral which pushes the light[9] into the physical plane as shown in Figure 115 Index of Refraction and the Speed of Light from the book and included below.

The consequence of this is that a major assumption by Einstein is not correct i.e. the constancy of the speed of light, or rather, it is only correct on the E2 plane. As stated in Neutrinos and Einstein[10]:

> "*Einstein's special theory of relativity would then be null and void.* It would need to be replaced by a new theory: one that encompasses faster than light travel. Einstein's relativity states that whether an object is at rest or in motion is highly subjective to the perspective of the person viewing that object and also that the speed of light is a constant, physical barrier and that to surpass it would take an infinite amount of energy. CERN's neutrino experiments are challenging some of those basic assumptions.

How to find a valid hidden variables theory?[11]

We wish to change QM from a statistical theory of observation into a dynamical theory of particle trajectories (that looks like classical statistical mechanics with an extra force?), without altering the predictions that the theory makes. What changes are required?

We simply drop the usual positivistic philosophical notions and look at the equations: in particular, we stop assuming that particles don't exist when no-one is looking at them. To do this, change the meaning of one word: probability. $|\Psi(x,t)|^2$ is now the probability of the particle (or configuration) being at x at time t, rather than the probability of being found there in a suitable measurement. This has implication that particles exist continuously and have trajectories, independently of being observed.

In doing this we are making a metaphysical commitment (defining an 'ontology'). Metaphysics is not a term of abuse - it means the study of reality; you specify 'what exists' - what is QM actually about?

Further, we need to define the wave function Ψ. We have seen that it is often claimed to represent 'information' or 'knowledge', but it seems clear from the fact that it can be directly manipulated by essentially optical instruments that it represents something real. 'Something' wave-like passes along the different paths in an

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[9] See Pushing Pressure of Light, starting on page 352, from the book.

[10] *Ibid,* 219

[11] *Ibid,* 361

interference experiment; to refuse to call it *'real'* is merely to play with words. We therefore say a wave field exists and this is represented mathematically by the usual QM wave function evolving according to Schrödinger's equation.

As shown in Photon (347-351 from the book)

<p style="text-align:center">both particles and wave exist!</p>

These are the only changes required to orthodox QM to get an apparently completely-valid hidden variables theory - the 'pilot-wave theory' of de Broglie. All equations and results follow directly from the established formalism of orthodox QM.

Required Changes to Einstein's General Relativity 1905 Paper[12]

To account for consciousness, mathematicians and scientists need to make the following changes to Einstein's original 1905 paper and build from the base as follows;

1. Material exists in 4 dimension as noted in Dinucleon of Hydrogen[13], and footnote 162 of the book. Einstein's equations originally included the 4th dimension but he noted "*The aid of a fourth space dimension has naturally no significance except that of a mathematical artifice*"[14] he therefore dropped the x^4 term which is necessary to describe matter.

2. A new definition for time is needed to the one noted by Einstein: "*Time is then defined as the ensemble of the indications of similar clocks, at rest relatively to K, which register the same time simultaneously.*" Time is shown to emerge from entanglement[15] as shown in Figure 58 - The Chronon Emerges from Entanglement in the book.

    By setting the Lorentz transformation:

    $$l = ct \tag{1}$$

    to replace time, the only outcome is the appearance of the radical in Einstein's equation (29)[16]:

    $$\sqrt{1 - v^2} \tag{2}$$

    which restricted the material velocities however this is only true for the E2 plane as shown in Figure 115 Index of Refraction and the Speed of Light from the book and shown below.

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[12] *Ibid,* 376

[13] *Ibid,* 130

Spyrou, A., Kohley, Z., Baumann, T., Bazin, D., Brown, B., Christian, G., . . . Volya, A., First Observation of Ground State Dineutron Decay: 16Be. in American Physical Society, Physics, *Physics Review Letters*, **108**(10), 4. doi:10.1103/PhysRevLett.108.102501 (2012), https://people.nscl.msu.edu/~brown/brown-all-papers/481-2012-PhysRevLett.108.102501.pdf or http://phys.org/news/2012-04-neutrons-discovery-dineutron.html

[14] Einstein, A. (1921). *The Meaning of Relativity*. New Jersey: Princeton University Press, 5th Edition, 104

[15] See the book, Quantum Entanglement and the Spirilla Theory, starting on page 133, Figure 35 Binary Closed Loop Quantum Entanglement, Figure 42 The Subquark, Spirillae and Quantum Entanglement, Figure 43 Magnetic Fields Surrounding the 7th order spirillae (see Note (c)) and Particle of Time starting on page 253.

[16] Einstein, A. (1921). *The Meaning of Relativity*. New Jersey: Princeton University Press, 5th Edition, 38

3. To account for the relativity of consciousness add the following:

$$\mathfrak{C} = \sum \left(\frac{\Delta x_i}{\Delta t_i}\right) = \sum \frac{\nabla_i S}{m_i} = v_i \tag{3}$$

$$\theta_i = \frac{1}{6\pi\epsilon_i} \frac{e^2}{m_i c^3} \tag{4}$$

Where $\mathfrak{C}$, is consciousness, θ is the chronon (quantised time *(t)*), for a 'pilot wave' $\Psi(x_1, x_2 \ldots, x_N, t)$ in configuration space, and the de Broglie guidance equation for particle trajectories $x_i(t)$ where the phase $S(x_1, x_2, \ldots, x_N, t)$ is locally defined by $S = \hbar \operatorname{Im}\ln \Psi$ (so that $\Psi = |\Psi|e^{(i/\hbar)S}$) and by Snell's Law $c = n_{medium} \times c_{medium}$ as shown in Figure 116 Relativity of Consciousness from the book and shown below.

Note:

i. $|\Psi(x,t)|^2$ is now the probability of the particle (or configuration) being at x at time t, rather than the probability of being found there in a suitable measurement.
ii. A wave field exists and this is represented mathematically by the usual QM wave function evolving according to Schrödinger's equation.[17]

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[17] Mike Towler, "*Pilot waves, Bohmian metaphysics, and the foundations of quantum mechanics*", lecture course on pilot wave theory by Mike Towler, Cambridge University (2009) and various papers by Antony Valentini and his book; Guido Bacciagaluppi, Antony Valentini: *Quantum theory at the crossroads: Reconsidering the 1927 Solvay Conference*, Cambridge Univ. Press, 2009, ISBN 978-0-521-81421-8. A list of works consulted in the preparation of the works is available here References for Louis de Broglie and the Pilot-wave Theory.

http://www.tcm.phy.cam.ac.uk/~mdt26/pilot_waves.html

Figure 115 Index of Refraction and the Speed of Light
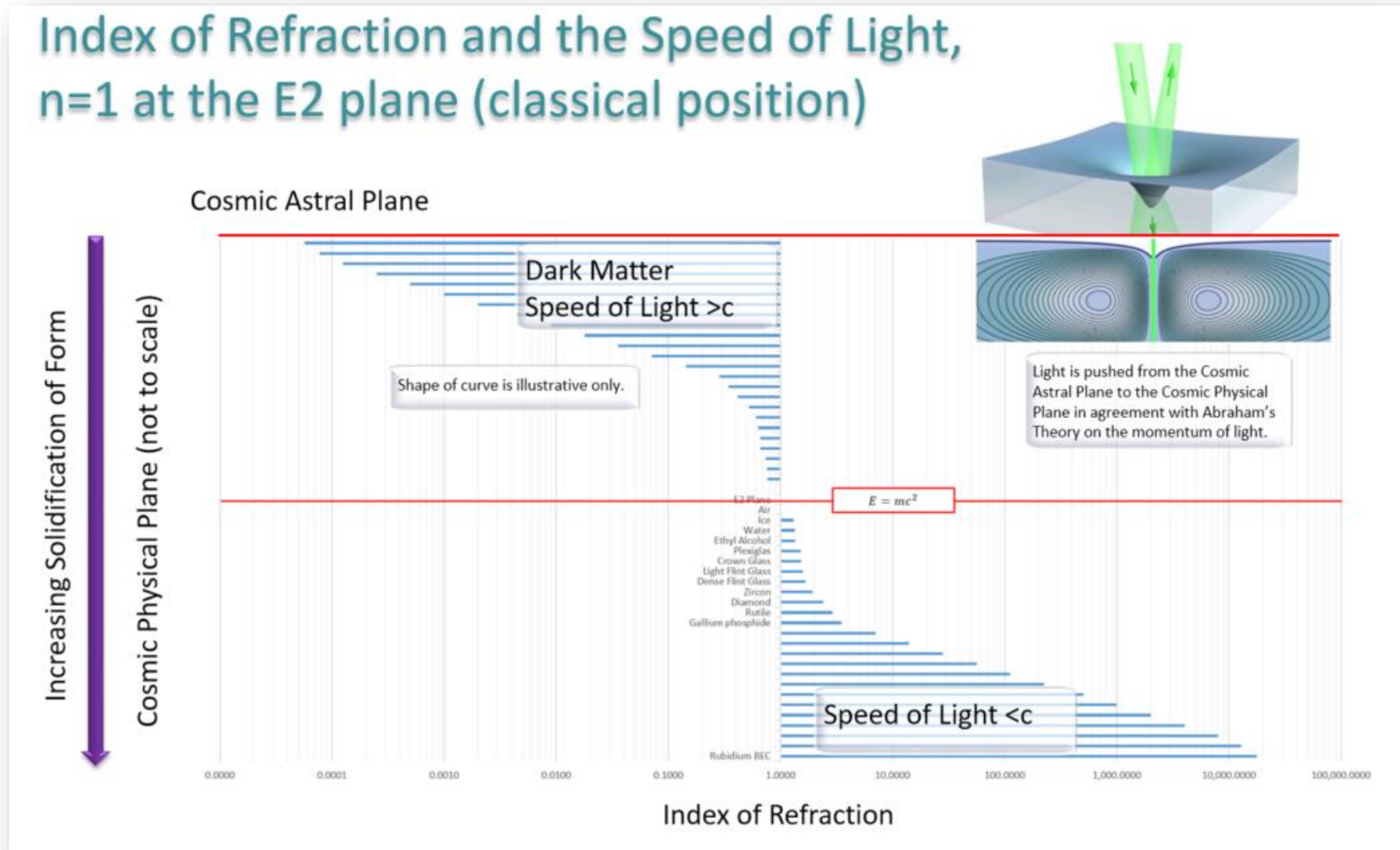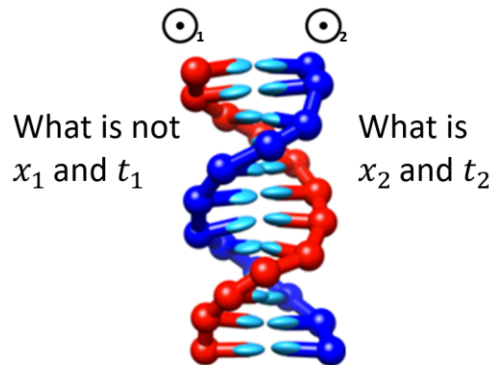
Figure 116 Relativity of Consciousness

Relativity of Consciousness

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