Exploration

Total Consciousness in Total Simultaneity

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ABSTRACT
We will call the dimension outside the causal reality “Total Simultaneity”. We argue that the essential tool to experience reality is our consciousness which is entangled with Total Consciousness in Total Simultaneity which contains all possible universes gathered as availabilities. Matter and space-time, in this perception, are an emergent illusion created by Total Consciousness in Total Simultaneity. Each theory we can think about such as the the Big Bang is only one of an infinity of availabilities in TS that could become an emergent reality. To represent the emerging causal reality only as a dualistic digital entity consisting of only “yes” or “no” is to neglect all the grey-tones in between these extremities.

Keywords: Total Simultaneity, consciousness, eternal now, entanglement, emerging reality, time-travel, subjective simultaneity, neural coding, quantum consciousness.

1. Consciousness

1.1 Introduction

*I think Consciousness will remain a mystery* - Edward Witten

Before we can enter the Time-Monitor (catalyst) that is called Consciousness we have to understand the essence of our reality and look if it can be “handled”. We are using the down→top approach in which consciousness plays THE central role. In order to understand this approach you can follow us on our journey through observations made in actual physics of our emergent universe. The conclusions that we made, are of course not the final Truth, because the TOTAL TRUTH does not exist in our emergent universe. Theories will always change, new ideas will come up, so we are giving only another possible direction of future thinking and understanding. Our island of knowing is growing, but this includes that the length of the shores of our unknowing becomes larger.

1.2. Emerging Realities created by Consciousness out of Total Simultaneity

Gottfried Leibniz in his 1710 work: “Essays on the Goodness of God, the Freedom of Man and the Origin of Evil”

Leibniz was right when we realize that our life-form seems to be the only possible at the actual

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exact position around our sun, the vulnerability of our thin layer of atmosphere and the narrow boundaries of physical fundamental constants.

The materialistic reductionist \textit{top$\rightarrow$down} approach just will not be able to find the One and Only “Origin of Everything” (IF , there should be ONE) nor will it be able to make a forecast of the future. Any search back will lead to \textit{another origin and most of the times to zero or infinity}. Will we be able to change from time/life-line and eventually be able to travel consciously between time -moments of the past and the future ? The results of thinking in several time-lines as probabilities/availabilities, will help us to understand better our emerging reality. These kind of thoughts to explain reality have lead to for instance the Many World Interpretation (MWI).

The “MWI” perception gave scientists just an explanation for the apparent fine-tuning of our reality. We argue that this explanation might need a closer look in order to be brought back to its very essence and to be able to determine the origins of our reality. The recipe for this perception is the \textit{down$\rightarrow$top} approach:

*Throw ALL information (of the past and the future) of ALL the possible, known, unknown, impossible and parallel universes together in one basket .

*Stir and Shake this up to ONE non-causal unity (yes it seems like chaos, but a good mix gives the best taste).

*The result In this basket are an infinity of building blocks (Eternal NOW Moments (ENM’s)) of not “realized” realities” that are regarded as “\textit{availabilities}". These Realities are comparable to the stocked INFORMATION available on a USB stick, that is becoming “reality” after using the right soft and hardware. (here matter could be compared to the hardware and consciousness as the software, but here ends the whole metaphor).

*It is impossible to "describe” in our causal deterministic way these points of “reality availabilities” (or apples in the basket, when the apples are singularities, the basket is also a singularity, because it does not exist in our emergent universe), eventually it is also comparable to all the slices of all “block-universes” together (slices with no subjective flow of time) as \textit{non-realized realities of different universes}. The “dimension”of this basket is reached at the Planck length and time. (Planck length($l_p$) : $1.616252 \times 10^{-35}$ m and the Planck time : $5.39121 \times 10^{-44}$ s).
These slices on their turn, can be imagined as constituted of “Eternal Now Moments”, (ENM’s) available for an emergent consciousness, each ENM is UNIQUE. Why the limit of the Planck length and time? Because they are the limits of our causal universe, go deeper and there is no longer before or after, no causality, no time, no space, we will call this basket (dimension): “TOTAL SIMULTANEITY”

*Total Simultaneity BEGINS at the edge of the Wall of Planck so EVERYWHERE around and inside our four-dimensional emergent causal universe, but is NOT EXISTANT as length and time in our Emergent Reality.

With our five senses we are searching for the reference of reference, which cannot be found in our emergent causal material reality. Plato already indicated in his famous allegory of “The Cave” the difference between the level of appearance (in the emerging reality) and the level of the original fundamental source of reality. The last one is comparable to TS.

3. The Subjective Simultaneity Sphere

We all are experiencing a subjective reality that can be represented as a simultaneity sphere around our individual consciousness and call it The Subjective Simultaneity Sphere, SSS. This sphere can have any radius, the bigger its radius the more it is crossing other Subjective Simultaneity Spheres and collective experiences appear. In your daily life the radius of this sphere depends on your interests and experiences. The length of the radius of these sphere also indicates the future and the past of the specific observer. Regarding the incoming signals: the larger the radius: the further away in the future because the later these signals will arrive at the
observer regarding the past: the signals (actions) of the observer causes light-signals to depart from its core, so they will go away with the speed of light (c), the further in the past the larger the radius.

![Subjective Simultaneity Sphere (SSS)](image)

**Figure 2: Subjective Simultaneity Sphere (SSS)**

The cutting circles of the different Subjective Simultaneity Spheres around the percipients can be imagined as a foam (the origin of de-coherence) of objective mutual reality. This is the reason why the mutual interference of other individual spheres in our reality influences our own experiences.

![Cutting SSS’s of several individuals.](image)

**Figure 3: cutting SSS’s of several individuals.**
The colours on the bubbles around our individual emerging consciousness are changing with the rhythm of the Planck time \((5.39\times10^{-43}\text{ sec})\) because of their origin in Total Simultaneity. The origin of the moments of «reality» that are saved in our emergent memory are giving us the impression of “history” so TIME.

![TOTAL SIMULTANEOITY](image)

**Figure 4. Subjective Simultaneity Sphere in Total Simultaneity**

### 3. Alpha-Probablity

Total Simultaneity is the origin of an infinity of so called probabilities where we introduced the “Alpha-Probabilities” as the set of probabilities that could become reality in our own (alpha) group of emergent universes. Total Simultaneity can be compared to the “ULTIMATE HILBERT SPACE”\(^{(4)}\) in which there are an infinity of dimensions. The word “Space” does not mean the three-dimensional space that we are used to, but is an abstract mathematical structure , a way of indicating a “collection of things”. In our case the “ALL possible (and impossible) Hilbert Spaces”. This Ultimate Hilbert Space (UHS) can be divided into sub Hilbert Spaces such as the above mentioned “Alpha -Probabilities”. One of these α-P’s is specified as ALL the possible quantum states of our specific experienced emergent Universe including ALL the possible positions of ALL possible observable but also the until now unobservable particles of our eventual realities (Also the data reaching our Subjective Simultaneity Sphere that we cannot receive with our 5 senses or don’t have the right conclusions for its existence (dark matter)).

The causal time-line is the Emerging Universe that appears when Total Consciousness in TS “aligns” or “jumps to” an Alpha–probability with a new Eternal NOW Moment. Each “observer” is the origin of his own causal time lines with his own specific α-P and ENM’s. Free will is the ability of Total Consciousness entangled with the emergent observer to make a choice of an infinity of Eternal NOW Moments in the specific α-P. The essence of our causal emerging timelines is the availability of an infinity of probable α-P’s by Total Consciousness. Individual consciousness as we are aware of in the emerging reality is “entangled” with this specific α-P and ENM of Total Consciousness in Total Simultaneity. Each α-P has the “full information” not only of a specific time-line but of ALL possible time-life lines. If Total Consciousness jumps to
another time-line the emergent individual would NOT be aware of a change in his reality. **So we could at each Planck time “be moving’ to another life-line,** as for the life-line we are experiencing right now it would continue like nothing happened. Total Consciousness can create several emergent life-lines with an infinity of emergent “YOU’s” instantly, because “time” does not exist in Total Simultaneity.

![Figure 5](image)

**Figure 5.** The specific Alpha-Probability universe as one of the infinite Probabilities in TS.

Young’s double slit experiment\(^{(5)}\) has not only shown the wave/particle duality of what we experience as matter but has also shown that the emerging of a particle is created by conscious observers. These emergent particles and their positions are in reality immediately (after 1 Planck-time, \(5.39121 \times 10^{-44}\) s ) history (in our memory), so no longer substantial part of an emergent reality. This is the reason that Heisenberg’s uncertainty principle \(^{(6,7)}\) asserts there is a fundamental limit of the precision of position and momentum. (the complementary variables. of particles). Each specific Eternal NOW Moment that represents this emergent “particle” however is eternally “available” in TS. So the question arises what is matter in our emergent Universe?

### 4. Matter in our emerging Universe

De-materialization of nature began already with Michael Faraday (1791-1867) who indicated that physical reality doesn’t consists of matter but of “fields”. The atom of the Greek that was still a materialistic entity, like the old fashioned non-illusionary billiard ball was becoming uncertain.

We are already a long time aware that also the atom exists mostly of empty space, the idea that the constituents: protons \((1.7 \times 10^{-15}\) m) and neutrons (in the core). Electrons that go around this core like “planets”, as pure “matter” is already out of date.

Quantum Mechanics has changed our insights. Matter consists no longer of tiny “balls”. The matter we are seemingly experiencing can be regarded as: “FIELD”, (Sean Carroll in lecture at Fermilab\(^{(8)}\) Total Consciousness also can be interpreted as a FIELD. This Consciousness field
that is originating from Total Simultaneity is through the intermediary of entanglement creating “excitations” resulting in momentary observed (illusionary) “particles”. Entanglement of a Field is entanglement of ALL the possible excitations of the particles that can be emerged through Consciousness. The moment the particle is “excited “ however, it is already history in the perceived specific time-line because its excitation in TS “exists” only for the length of a Planck-time in our emerging reality (quantum fluctuations). This is the reason that the vacuum contains appearing and disappearing virtual pairs of particles, that are originating from TS.

We argued that the top-down deterministic approach (It→Bit) gives us no solution on the essence of “matter”. It inclines to reductio ad absurdum. We seem to be obliged to go on thinking until we reach a point ZERO...which has lead to the acceptance of the Big Bang...and the existence of singularities in our emerging reality. All these are interpretations of our interpretations occurring after analysing the data from our Subjective Simultaneity Spheres. History as we perceive it in this specific life-line taught us that the “visible” Colours from our SSS’s evolved from the acceptance that the earth was the centre of the universe, to the view that the sun was the centre and to the acceptance that we are somewhere lost in a vast entity. From Newton to Einstein to Quantum Field Theory (8), String theory(9) and Loop Quantum Gravity(10), ( both strings and loops start at the Planck length!) all are interpretations of the data received on our SSS, originating in a specific ENM’s in TS.

Figure 6. Consciousness as a Field
5. Spooky action at a distance

The emergent subatomic “particles” or “excitations” can become entangled, meaning their qualities are bizarrely linked. For instance if two photons are sent from a source in separated directions and encounter a two channel polariser, their spin will be linked the moment one of the particles is measured. No matter how far the entangled particles are, or how fast a particle is measured, or how many times they are measured, their states become inextricably linked.

Top→Down approach asks for an instantaneous action-at-a-distance which requires that the distant effect is simultaneous with the measurement. Without simultaneity at a distance this notion doesn’t make sense. We argue that the moment the measurement is made, this moment represents a specific Eternal Now Moment in Total Simultaneity. In this ENM the measurement is achieved the moment that the observer is making a choice, represented by its special ENM, so the emergent entangled particles have the same spin. The decision of Alice in TS (see illustration below) has an immediate result in our emergent universe. We need no longer non-local hidden variables (particles interchanging information at a velocity > c ) in our emergent reality. The Spooky Action at a Distance (Einstein) has vanished, its causation (the decision of the observer) is in Total Simultaneity.

Illustration 6 : Instantaneous action through Total Simultaneity on entangled particles.

Werner Heisenberg’s word “POTENTIALITY”(11) meaning “wave function” or “probability wave” is a quantitative version of the old Aristotelian expression “Potentia” describing objects as a status somewhere between the “idea” and “actual event”, which comes closest to our perception. (Heisenberg W. (2007). Physics and Philosophy. New York : Harper Collins)(12). The “idea” is placed in Total Simultaneity and the “actual event” in our emergent reality. That we become aware of empirically observable world.
In our emergent reality the observer has added one of these positions in his memory, each position has become part of his own emergent time-line. However we experience only ONE ENM from ONE alpha-probability each with its own information stock that represents an emergent reality. Every eternal NOW moment of a specific life-line (being unique for any individual because EVERY Subjective Simultaneity Sphere is different) is eternal and an infinity of life-lines is available in TS. Could we “travel between these ENM’s”, could we “jump” to a specific ENM from the life-line we are experiencing NOW, so time-travelling?

6. Time Travel?

There are an infinity of causes/effects and coincidences in the “maze” leading to our existence. Even to analyse the chance and coincidences that led to your being in front of a computer-screen to read this text is already a huge assignment. The chance that your parents met...is already one in several billion (surely for myself, my father being a Canadian soldier that came to Europe during the second world war and met my mother in Holland) and before that the coincidence that your grandfathers and grandmothers would have met gets up to a chance of one in \(10^{27}\). This also counts for the other way around. When you try to predict the future of your grand-children, it will be as difficult (or even more) as to predict the weather.

Could we travel back in the maze and time of our emerging reality to the same ENM as for instance for 1 second ago ? Mathematically it would be possible however when we envisage the ENM in the centre of a sphere from where an infinity of vectors can be drawn then:

![Figure 4. Both Alpha→Infinty Probabilities and Eternal Now Moments can be designed as spheres each with an infinity of vectors](image)

the odds to come back on the same vector after 1 Planck-time is already a chance of one to an infinity. So if we want to go back only 1 second we have to find back the specific direction between \(5.39\times10^{43}\) (!!!) ENM’s meaning \(5.39\times10^{43}\times\infty\) vectors, which is quite a lot of traffic signs. Only if our consciousness would be able to re-align the history of the ENM’s from our memory then it would be possible to travel back in the time that our memory has backed up as our actual no longer existing reality. The big question is however will it be possible? Thinking
of the infinity of probable ENM’s....the answer has to be: yes...because in the infinity of ENM’s there are also ENM’s available where this is possible....! For travelling in the future we have in our own emergent universe the possibility to achieve it through Einstein’s Special Relativity. For the possibility of reaching the future of other probable (and improbable) universes it is just the same game of jumping to another Eternal Now Moment, an achievement that has to accomplished by consciousness.

The definition of a wormhole or Einstein-Rosen bridge\(^{(13)}\) indicates a short-cut between two separate points in space-time. In the Total Simultaneity perception a wormhole is the connection between our emergent reality and Total Simultaneity. So from the limit of our universe to a dimension where ALL Eternal NOW Moments are gathered. If we should be able to reach this dimension, it would be quite a task to aim at a certain ENM from a reality with its specific place and time that we experience at that moment. It would be impossible to achieve this task with the use of “emerging matter (illusion)”. Like time-travelling it will only be possible with control over Consciousness. We should be able to make “use” of the entanglement between our reality and TS.

7. The emergent observer

The problem with the so called creation of reality by a conscious observer is that this observer itself is an emergent entity in his own reality. We are part of the limited level of appearance, the prisoners in the allegory of the Cave from PLATO.

When we analyse the “subjective reality” that an emergent “material” observer is becoming aware of, the following fact is important:

It takes your brain 200 milliseconds (The Information Transmission Delay = ITD) to become aware of what is perceived. We are only becoming aware of a no longer existing past.

Imagine an infinity of spheres around the observer, each sphere with a different radius and representing a different past of incoming and outgoing simultaneous signals. The minimum radius of a sphere around the consciousness of the observer, at which the data become “aware” is at the distance of 200 milliseconds. (ITD =10\(^{43}\) Planck times(!) = the above mentioned Information Processing Transmission Delay (ITD).

The « problem» here seems that conscious observation from an observer is always 10\(^{43}\) Planck-times BEFORE the “awareness”in the emergent reality (the difference between Awareness and Consciousness is 200 milliseconds=10\(^{43}\) Planck-times). SO The ACTUAL observation act has taken place in Total Simultaneity by a JUMP to another Eternal NOW Moment by Total Consciousness in a our specific Alpha-Probability. (see also : spooky action at a distance) It is because of the entanglement between Total Consciousness in the ENM and The Emergent
Individual Consciousness that we “observe” the so called collapse of the wave function.

Illustration 5. The “observation” lapse between Total Simultaneity and Emergent Reality.

The illustration above is posing Total Simultaneity at the side of the Emergent Reality, this is done to give an idea of the time lapse between reality creation of Consciousness and the awareness of the individual observer. Because there is no TIME in Total Simultaneity the time-difference of 200 milliseconds between the emergent observation and the “actual” observation in TS is only experienced in the emergent reality as a “problem” it is our causal thinking that creates this problem. The specific observation ENM in TS is eternal. It is the decision of the observer in TS that “causes” the excitation of a particle in our Emerging Reality.

8. Intelligence versus Consciousness

We have however to make a difference between intelligence and consciousness. Intelligence is a stock of data (information) available for consciousness, and used for decision making. In our binary computers only calculate binary between two extremities (zero and one), the complexity of the quantum processors is not available. Quantum processors are using the infinity of grey-tones in-between two extremities. Its “complexity” is quite similar to the complexity of our brain. The question remains however IF this complexity of quantum processors will lead to a new kind of consciousness, so will it be a TOOL for creating another form of consciousness in emerging reality?

Consciousness/Intelligence can not be realized just by black and white thinking and by creating machines that are working on algorithm’s. An “algorithm” indicates a step-by-step operation, beginning with an initial state and input, followed by instructions describing the computations to realize, till an output is reached. The internet is not conscious, it is just a pile of binary information accessible for all kind of users. Each step in this algorithmic process is always between two extremes (in computation for example zero/ one and yes/no), the infinite tones of
gray in-between are not involved. **This is the reason why consciousness cannot emerge from this binary process.**

Are we able to create “intelligence” that will lead to consciousness or a complexity different from our biological complexity where consciousness could emerge? Should we be able to save all our memories from the specific life-line that we are experiencing through this specific ENM? Is this saving the reality of the HEREnow we are experiencing with our emergent consciousness? Could we try to escape the death of this specific life-line or would we be jumping just to another ENM (life-line)? Therefore we have to understand the processes in our brain leading to consciousness, one of these processes is the so called Neural Coding.

### 8.1 Neural Coding or the contact with our future past

*It is hard to see how one could begin to develop a quantum-theoretical description of brain action when one might well have to regard the brain as "observing itself" all the time!* - Roger Penrose

In the “reality” layer where our body and our brain have emerged through Consciousness we can find proofs of the Quantum Inter-connectivity inside our brain, a wet and warm tissue strongly coupled to environment that contains 170,000 km of nerve fibres, 86 billion neurons, together with $10^{14}$ synapses) and maybe represents the deepest layer of reality: consciousness.

In order to try to understand the emerging sequences that are forming our “reality” we need the illusion of time. Time is the illusion that our consciousness is creating by processing, ordering and interpreting all sorts of information, received by our five senses and represented in the emergent brain by the electrical and quantum activity in neurons, our memory.

The details of this representation called "neural coding" remain however mysterious. The question is how pulses (bits) of electricity get translated into thoughts and ideas (Phase transition may explain how brain neurons encode information). In neural coding the neurons generate electric pulses, or action potentials, to encode information and communicate with each other. At this stage information and communication are taking place between neurons who seem to be ordering and processing this information so that the “human consciousness being” can realize thoughts and become “aware of himself”. This form of consciousness is not only reserved for humanity but also for every form of animal and vegetable life on our planet. The consciousness of plants and trees which also have DNA is of course different but real. Each living entity that has a “WILL” (to survive, eat, procreate) is conscious.

**We argue that: Quantum Coherence in brain Tubules, may be at the origin of “entanglement” with the non-causal part of consciousness in Total Simultaneity.**

The question in our down→up approach is not if the neuron is conscious and/or is censoring our
thinking because the neuron is emergent and its excitation originates in our own non-causal consciousness. We have to work from down → up to come to the conclusion that consciousness as we are experiencing is not the result of the emergent “material” brain but a shadow of a greater origin: Total Consciousness. So it seems that our Ultimate REAL FREE WILL is not residing in our emergent universe (that seems to be causal and pre-deterministic) but in the non-causal infinity. Which could also be expressed as: “Free-Will is not an “illusion””. Our emerging Causal Consciousness is the result of the force of the Total Consciousness Field (origin of complexity, the counterforce of the entropy field ?). Our individuality, EGO is residing in an infinity of Eternal NOW Moments.

8.2 Quantum Computers in an emergent Universe

One of the possibilities to enhance further in a technical way our five senses maybe the use of future “quantum processors” that may allow us to achieve the extension of consciousness. The “qubit's” (unit of quantum information) superimposed state is comparable with the infinite possibilities of time/life-lines (Eternal NOW Moments) in the basket of TS. A quantum processor that would be able to store 1,000 qubits we will have $2^{1000}$ possible configurations ($10^{300}$) which is more as all the atoms in our universe, so it would stock $10^{300}$ solutions for $10^{300}$ problems. This does not only mean that every question (until now) can be answered, but maybe every question is already answered the moment we achieved the quantum-state of these qubits, even without putting it on power.

IF we are able to generate in this quantum-state a “parallel” consciousness it could eventually get entangled with ours in this emergent reality. This newly created consciousness is of course also an emergent one, but as our consciousness is entangled with Total Simultaneity it would give us the possibility to understand more of the dimension(s) that may reside behind the Wall of Planck. The road to eternity has widened...

9. Growing the emerging part of consciousness and proposal of an experiment

How could this be realised? To find the direction in which this search should be aimed, the following achievements are to be considered:

1. In the article “Quantum Coherence in Brain Microtubules...” 16 Nick E. Mavromatos, proposed that:

   For the first time there is concrete evidence for quantum entanglement over relatively large distances in living matter at ambient temperature, which suggests a rather non-trivial role of quantum physics in path optimization for energy and
information transport \(^{(16)}\)

A continuation of the research how neurons can encode both digital and analogue information is established by Nick E. Mavromatos who published in 2011 the article “Quantum Coherence in (Brain) Micro-tubules and Efficient Energy Information transport” \(^{(7)}\) where he described also the role of Quantum mechanics in Biology, and entanglement at ambient temperatures. \(^{(17)}\)

2. Quantum entanglement and de-coherence time, which are for the construction and the operational qualities of quantum computers the main issues, are already availabilities in our own brains inside the Cell Microtubules. (de-coherence = The particles that make up a quantum-computer interact with surroundings, so that information is spreading out, which means: this effect is spoiling quantum computations, (to decohere = lose their quantum properties)).

3. Regarding the “emergent” aspect: Experiments on atoms in salt crystals have shown that an amount of \(10^{20}\) atoms can be formed as a hugely entangled state. (Vlatko Vedral “Progress Article Quantifying entanglement in Macroscopic Systems” \(^{(8)}\) Scientists have also succeeded to retrieve coherent information for extended times (39 minutes) at room-temperature. See Kamyar Saeedi et al in “Room-Temperature Quantum Bit Storage Exceeding 39 Minutes Using Ionized Donors in Silicon-28” By combining the same kind of technique as our microtubules are using; namely Ca\(^{2+}\) Ions and applying the the technique to entangle salt crystals or maybe Ca\(^{2+}\) ions in a quantum processor, we would be able to establish an entanglement between these Ca\(^{2+}\) ions in the brain and in the quantum processor.

Conclusion: There are possibilities for our brains to perform quantum states and/or entanglement. If this property can be brought in coherence with a quantum processor, we will be able to achieve in our own emerging reality access to the for example \(10^{300}\) solutions that are offered in a quantum processor system. Our consciousness will be “enlarged” so the entanglement with the Total Consciousness widened (= more understandable data on our Subjective Simultaneity Spheres) This will result in an emergent universe where our comprehension of Total Simultaneity has grown.

We saw already that we did not even need to put the quantum computer “on”, it is comparable to entanglement: an immediate process without “processing time”. In order to achieve such a result the following points/steps should be considered:

1. The realising of a quantum processor, using as qubits the electronic and motional states of a single calcium ion, confirming the potential of trapped ions for quantum computation \(^{(19)}\)
2. Research for possibility how to produce entanglement between two quantum processors by magnetic fields.

3. Synchronising tissue from “brain” (the microtubulus with Ca$^{2+}$ions) with the quantum Processor and the testing if an entanglement on this scale between these two forms of processors can be realised by the magnetic field.

4. Research for a magnetic field that is both able to enhance entanglement with quantum processors and tissue from brain (without harming the last one)

5. Enlarging the amount of qubits in the quantum processor to achieve a complexity that receives consciousness and testing its entanglement with brains.

If these steps are successful completed and an entanglement is realised between the two entities and the result is positive for the data transfer between them, the following stage would be to create the processor with 1,000 qubits and entangle it to the human brain. If the 1,000 qubit processor is achieving a form of consciousness through its complexity, it would demonstrate proof for our perception of Consciousness.
Of course there are still a lot of problems to be resolved. Important is that the specific magnetic field needed to reach the entanglement in the salt crystals will have the same effect on our brain-structure without harming them. The results of the realising without decoherence $10^3$ qubits in a quantum processor will give us insight on its complexity and where and when emerges consciousness in this process. The point where the processor will exhibit “Will” and or EGO is decisive.

10. Conclusion

An infinite amount of “YOU’s” is “available” eternally

We argued that “matter” is only an illusion from the past. A past that does not exist any more in our emerging universe but is eternal in Total Simultaneity.

What does this mean for the actual life we live between our birth and death?

Your causal birth and future dying in this time/life line is just one of infinity of births and deaths. Your non-causal consciousness is eternally and timeless wandering between these endless availabilities (ENM’s) of all pasts and futures that are possible (non-material, non-realized) realities.

Unlike the Many Worlds Interpretation that proposes at each choice two more material realities, we indicate that ALL choices are eternal availabilities (comparable to the availability of information) that only need to be “jumped on” by Total Consciousness in TS.

We introduced an infinity of probable “Emergent Universes”. Each emergence has its “origin” in Total Simultaneity, so the “essence” of our so called REALITY is not Existing in the illusionary Material way. Total Consciousness in Total Simultaneity can be compared with a Field that becomes like the philosophical concept described by Aristotle, it moves all other things but it is not moved itself by any prior action and is called “UNMOVED MOVER”. (20) This consciousness field could be the counterpart to what we are experiencing as “entropy” in our reality. The origin of COMPLEXITY (life and its observers) is in Total Consciousness. Our emergent universe is treated here as a “closed system”.

The infinite availability of YOU’s does not mean that the understanding of your present life-line creation is not important, because it is your actual (in Vito) conscious reality. Each causal consciousness has to search for development from its own life-line on towards a more intensive contact with its non-causal part, in order to be able to receive more understanding of the essence of reality. In this way achieving more “control” and so be able to create a “better” universe. The steering of the future lies in a deeper understanding of our consciousness! Like in the Vedic concept this means a deeper understanding of the unmanifest reality (which is conceived of as a
realm of “Perfect Forms) in the emanated manifest world of appearance Maya (universe of illusion). Also Immanuel Kant distinguished two fundamental aspects of “objects” : their “appearance” (emergent reality) and “the thing in itself” (Total Simultaneity), the last one he stated was unknowable (noumenon, object of the mind in The Critique of Pure Reason (German: Kritik der reinen Vernunft, KrV) by Immanuel Kant\(^{(21)}\).

The YOU, with its birth and surely its death in the unknown future is only one aspect of the infinity of YOU’s together forming the ULTIMATE YOU in Total Simultaneity. Your actual life line is one of the infinite number of ILLUSIONS, each of these illusions are representing one colour of the infinite number of colours in the rainbow of the ESSENCE. However even without this little part of the spectre, it is not Complete. The Eternal Now Moments forming the chain of your life-line are eternal and always residing as availabilities in TS. Death is the ENM that indicates the end of only one illusionary memory-line. However this “END” is also an Eternal NOW Moment of The REAL memory-line that will Eternally be present in Total Simultaneity. We (our emergent ego’s) will ALL be freed as prisoners from the CAVE, leave Mäyä (illusion) and enter Purusha (the eternal).

The one Eternal Now moment, that you became conscious of 200 milliseconds ago, is just one of an infinity of ENM’s (apples) in the basket, but it is THE moment we shared together in our perception and the creation of the image of THIS specific reality. Let us try together to make the right choices and prepare for the promised Eternal Conscious, being aware of our own eternity. See you in another life-line....and hope that our Subjective Simultaneity Spheres may converge to experience a widened comprehension of our reality.

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11. Interview with Werner Heisenberg was conducted by David Peat (DP) and Paul Buckley (PB) in the early 1970's for broadcast as part of a CBC radio documentary series entitled Physics and Beyond. The interview was later published in
Glimpsing Reality: ideas in Physics and the Link to Biology, a collection of interviews with leading scientists of the Twentieth Century. The book is available for purchase through Amazon.com.

14. Sir Roger Penrose: (Ch. 10, Where Lies the Physics of the Mind?, p. 447.)
20. Aristotle: Book 8 of “the Physics” and Book 12 of “the Metaphysics”