

## **Neuroquantology and the Cartesian Dualism: The bitter cleft of a closed mind**

The error was first introduced long ago by Descartes in order to preserve his life and position in the face of persecution like that brought to bear upon other scientists of his day. His clever "mistake," so rightly crafted as to save his skin, has poisoned the heart of science ever since: The Cartesian Dualism. How deeply all must have NEEDED to believe this impossible thing—as if one could even imagine for a moment that the body, the physical form, is somehow distinct and dis-related from the emergent result...the mental. Only a desperate and clever soul could have thought up such a thing. Only a fool could still believe it. All still seem to believe it...but for a few. Let us look at these few, evaluate their merit, and assess the possibilities ourselves. Perhaps there is a different way to envision reality...a model which is not poisoned with this bitter cleft. Perhaps there is a method to scientifically validate what seems unthinkable—that the thing which created us, is somehow related to that which it has created. I know, a silly sounding idea, to imagine that there could be any connection whatsoever between an object and its genesis. I must be quite mad to suggest it. Please bear with me. I will explain.

I am privileged to participate in several IQ groups. One has taken up the thread of Chris Langan's theory, the CTMU. Most insist that there is no real information in the paper, and, to see the over 400 comments, many acerbic, insulting the theory, and Chris, insisting his IQ is a fake, and his ideas, are just word salad, or, maybe created by a computer program so as to be devoid of meaning...one becomes curious. Has this idea, the idea of a universal connectivity between physical and mental processes been hatched here for the first time in the dubious mind of Chris Langan, or, have these notions found a home in other minds as well, and if so, are these worthy minds, or silly thinkers and fools? Here is a brief and incomplete history of some of these thinkers. Their ideas vary, but all share some portion of this vision, and not a small portion either! Look and see...are these intelligent men, or fools? Here are a few of the minds who have thought along these lines—I wish to thank physicist Lana Duze for her kindly help in collecting this information:

### **1) Consciousness creates reality:**

1) Niels Bohr model: consciousness creates reality through the collapse of the wave function - 1930. The interpretation of Copenhagen proposed by Niels Bohr and Werner Heisenberg, suggests a direct link between consciousness and Quantum Mechanics. According to Bohr and Heisenberg consciousness would be an immanent property of reality which exists before the creation of reality.

2). Nick Herbert: pervasive consciousness - 1987.

3) Roger Penrose and Stuart Hameroff: ORCH-OR, Orchestrated Objective Reduction - 1989.

4). Henry Stapp: Quantum State Reduction and Conscious Acts - 1993

## **2) Category quantum models of consciousness:**

Lotka (1924)

Bohm (1950)

Walker (1970)

Culbertson (1987)

Lockwood (1989)

Pitkänen (1990)

Kaivarainen (1996)

Bondi (1998)

## **3) Order principle:**

Fantappiè (1941)

Fröhlich (1968)

Umezawa e Ricciardi (1980)

Eccles (1986)

Marshall (1989)

King (1989)

Pribram (1991)

Yasue (1995)

Vitiello (1995)

Hu (2002)

I do hope the information is clear: The most intelligent minds to ever live have considered these ideas. From Bohr and Heisenberg to Penrose...all have considered. These are the most superior and worthy intellects in all of history. Period. In reply, I was told that even Newton dabbled in alchemy. Perhaps, but

look at them all! All of these fellows, could they all be silly fools? I doubt that even the most arrogant man alive could claim that without blushing!

Today the unfortunate label of Neuroquantology has been given to this discipline. I am sure Feynman would rightly condemn that name as "horrible"! Yes it is an ugly and forced label, but I contend, a worthy worldview—a worldview which is filled with exciting and new questions! How fascinating to construct the experiments which will answer them!

Here, let us indulge ourselves with a few impossible questions fit to tempt the likes of those few rare physicists who will consider rather than condemn. Never exclude any option which offers a simple solution! Never! Let an open mind create and let experiments exclude. First...Let us imagine! Ah! To imagine and wonder, then to test...this and this alone is the forge where new thoughts are hatched, raised and rightly tasted. Only then may we refuse, only then may we know! Here...can you imagine...this? Are you able? If we are correct in this approach, the following postulation is true: "Mental processes are akin to physical processes." So, let us think of the situation from cosmology down to ontology and psychology, or, from the micro, again, up to psychology, as a fractal relation; meaning it demonstrates self-similarity over micro to macro variations in scale. The *result*, in each case, at each level, reflects similar systemic complexity and structure represented at the formative level. So, we come of the universe and it is little surprise that we and our theories resemble her! If we examine one level, the mental, we can learn of the others, the physics, and their interactions. I have been able to uncover the hidden underpinnings of our mental processes.

I will be specific: I have found these things in two stages. First, I had OCD and withdrew from the high doses of SSRI drugs. The result of this is a new situation, the ability to specifically lower neural 5-HT, is the removal of repression. Repression is 5-HT dependent (Norman, 2011).

<http://thejournalofunconsciouspsychology.com/blog/2013/12/21/5-ht-and-repression-the-key-indoleamine-the-unconscious-gateway-of-civilization-creativity-and-hell/>

This information is also available on this site under the title: 5-HT and repression: The key Indoleamine—the unconscious gateway: of civilization, creativity and hell.

The resultant illness revealed a new phenomenon only rarely observed in certain stages of OCD and some few cases of hysterical psychosis: undistorted unconscious content and processes become available to observation. A symptom reveals the underpinnings of normal mentation (Brown, 2010, p. 79). Here we see pre-processing...the ontological fractal representation of the quantum level. First we see the element of timelessness reflected, as here, the linear resolution of non-local entangled states is incomplete. Time is an entangled function of resolution through evolution [see link below; ie., the system avoids temporal stasis and achieves manifest resolution via entangled evolution]. The content reflects the situation at this level of processing to some degree but also disturbs the vision of the processes somewhat, as the sun obscures the effects of gravitational

lensing. Here we see hundreds of simultaneous expressions of sexual and aggressive drives...each associated with a different period of time in development and maturity...all running at once...all the past reactions (and below it memories) active simultaneously, and, fantasies which represent wishes, and those of course, are futures we would desire. This is a very shallow and un-detailed description of the unconscious in any human. Here we see hundreds of simultaneous atemporal expressions in non-spacial proximate contact: Entanglement/superposition at the fractal level of ontological pre-processing. This effect has been observed thousands of times.

Secondly, (do note I have observed this effect *only once*): Now that my self-psychoanalysis is over, the OCD cured and the drives redistributed, I retain the ability to circumvent repression (please ask for the details of my method of Native Psychoanalysis), so I can simply pierce repression and see the pre-processing at will. Now, the energy is greatly reduced, and if conditions are exactly right (the psychological equivalent of a solar eclipse in the search for gravitational lensing), I can observe—here we see all outcomes at once for the unfolding of an event out of any causal order. All together. Again: Entanglement/superposition at the fractal level of ontological pre-processing.

In order to make better sense of this strange idea, please consider the notions of quantum superposition and entanglement.

<http://curiosity.discovery.com/question/what-quantum-superposition>

[http://en.wikipedia.org/wiki/Quantum\\_superposition](http://en.wikipedia.org/wiki/Quantum_superposition)

[http://en.wikipedia.org/wiki/Schr%C3%B6dinger%27s\\_cat](http://en.wikipedia.org/wiki/Schr%C3%B6dinger%27s_cat)

Firstly, we must remember that we spring directly from quantum processes each moment, and are just as all of manifest reality, active and direct instantiations of special relativity...our mass created each moment as a function of virtual particles produced in the gluonic field, and in turn, also from the Higgs fields:

[http://media.wix.com/ugd/cf8614\\_b0596eaf80ff4507a52c69b28c7b646b.pdf](http://media.wix.com/ugd/cf8614_b0596eaf80ff4507a52c69b28c7b646b.pdf)

This information can also be accessed on this site under the title: Active Relativity—virtual mass: the mathematics of divinity.

As we and our minds come directly from these quantum processes, if a fractal relation exists, an inference may be drawn from physics to mentation and from mentation to physics...a function of fractal self-similarity. In the quantum description, we see time moving in both directions, and, objects are often in two or more states or places at the same time. This is a nonlinear description which appears atemporal and aspatial. Many states and outcomes may exist simultaneously and so, exist on a quantum level, out of any causal order. These states and objects are in simultaneous contact, seemingly, often enough with no respect to either linear time or distance! The quantum description of

reality seems to lack all normal logical, and classical contradiction, as we usually interpret the idea. Here, a deep connectivity is evidenced between the quantum and unconscious processes. The Freudian unconscious is a source of definitional transference, just as the quantum processes create all manifest physical reality. All manifest ontological reality is created by the symbolically condensed distribution of affect from temporally asynchronous sources stored in continuous energetic and informational contact [as entanglement and superposition]. No time is available, no contradiction, all information is ripe for symbolic condensation and projection to define reality, but, that information is unobservable [just as quantum processes]. It is sometimes supposed in physics, that many separate worlds must be created by decoherence so as to receive the many possibilities...but I have another conclusion I will articulate below...a final "resolution" of the problem.

So I infer that non-locality is quite real, a universal unconscious function if you will (see below), which indicates the underlying process and is observable in the manifest domain due to lack of field resolution. I will explain that below. Imagine the result, causal linear reality as a super-structure based upon a hidden quantum energetic process. Below, in the unconscious— at the quantum level— there is no distance...there is no breaking of Einstein's law of light speed as a maximum...no...the objects are together! Think of the two as definitions of the same thing...like the math in M-theory or string theory which seems different but describes the same thing. Think of it as two inertial frames which need a transformation to be understood to each other. In psychology it is referred to as "condensation from numerous mnemonic/affective sources to form symbolism via affective assignment":

<http://thejournalofunconsciouspsychology.com/blog/2014/01/26/the-system-of-affective-assignment/>

Eg., a chair has a certain curve and its wood also reminds me of many things...women, hatred, men, love, pain, so many things! These give by rapid energetic/informational combination, the affective/experiential definition of the chair, and, demonstrate the way all conscious thought is created...logic last of all! So analogously, in one "inertial frame" we have a chair, in the next, many, many atemporal energetic and informational factors in proximate ideational contact all summed in an instant (and attached to a visual image), and, these two definitions are identical. So both are the case, the manifest result of location *and* non-locality, and as the process is not entirely resolved, we see some "Magic" phenomenon too in the manifest domain...evidence of entanglement piercing through...as a bit of the unconscious made manifest in a slip of the tongue, symptom or a joke. Magic is revealed preprocessing...and is not magic. It simply reveals the underpinnings of manifest reality.

Here is the bit about the temporal field, temporal mass, and field resolution [measure of entanglement in manifest domain] which explains why quantum experiments vary outcomes to be measured, and relates self-aware beings and super-massive objects like black holes. Temporal mass and the temporal field may yield an experimental approach

to test these theories. (I am working on this).

[Interesting note: There are theories which suppose wormholes may connect entangled manifestations.

<http://resonance.is/spacetime-as-information-an-ordering-principle-for-living-systems/>

I propose that one might test this hypothesis by creating an entangled state between two distant micro-particles and testing for the presence of Casimir negative energy.

This energy holds the wormhole open. If this negative energy density is absent, the theory is false. Here is a web address for Casimir negative energy:

[http://www.newscientist.com/article/dn25596-skinny-wormholes-could-send-messages-through-time.html?utm\\_source=NSNS&utm\\_medium=SOC&utm\\_campaign=facebookgoogletwitter&cmpid=SOC|NSNS|2012-GLOBAL-facebookgoogletwitter#.U64prqjUFCd](http://www.newscientist.com/article/dn25596-skinny-wormholes-could-send-messages-through-time.html?utm_source=NSNS&utm_medium=SOC&utm_campaign=facebookgoogletwitter&cmpid=SOC|NSNS|2012-GLOBAL-facebookgoogletwitter#.U64prqjUFCd)

Please note also, that black holes may themselves be structured exactly as micro particles! [Greene, 1999, p. 320]. How's that for micro to macro connectivity?

These last pieces of the puzzle which follow, the temporal field and temporal mass, were first published in a slightly different form in an article recently published here and on BlogIQ "Three new ideas—quantum energy, the temporal field, unconscious processes and black hole holography":

The temporal field: development and implications.

Next, I would like to introduce the notion of a temporal field.

I have just read an article which seems to imply the possibility I have inferred some time back of an observer-based temporal field that underlies quantum fluctuation.

<http://www.preposterousuniverse.com/blog/2014/05/05/squelching-boltzmann-brains-and-maybe-eternal-inflation/>

Here is a piece of text from the article which is important: "...we therefore sometimes speak as if the system is fluctuating around even when we're not looking at it — as if an electron is actually bouncing around in the vicinity of the nucleus of an atom, and its orbital represents the likelihood of it being in one place or another. But that's not right: the orbital (the wave function) *is* the electron, it doesn't represent our knowledge of it. And when nobody is observing it, literally nothing is fluctuating."

It seems to me that there must be a fundamental field, a field which is responsible for the other fields...the one responsible for time itself...for quantum resolution of entanglement. Photonic coupling and other ideas of temporal sourcing would then be subservient under their proper source, as second order manifestations under the province of time, manifestations of the temporal field. This hypothetical temporal field then, is that energetic field which is responsible for the resolution of entanglement. Experiments

equate time itself with entanglement and its resolution:

<https://medium.com/the-physics-arxiv-blog/quantum-experiment-shows-how-time-emerges-from-entanglement-d5d3dc850933>

This explanation seems logical to me.

The temporal field, should it exist, we can deduce by thought experiment, could be cleared away, and the events in that region would cease...time would halt. The delightful philosophical result is that we and all of reality are just virtual particles created by the temporal field! Then...as temporally bidirectional space-time creating objects...we can unconsciously alter the outcomes! This is temporal mass. Please read the article on this site titled, "What if Roger's right? a. Reality and the quantum basis of affect—b. Entangled intra-connectivity and universal cognition—c. Temporal Mass."

<http://blog.theultranet.com/2014/05/what-if-rogers-right-a-reality-and-the-quantum-basis-of-affectb-entangled-intra-connectivity-and-uni.html>

Here are a few adjustments to the aforementioned theorizing which bring the picture into sharper alignment with the physics as we know it, while removing the improbable solipsistic elements, and avoiding the troubling conclusion of the many worlds hypothesis. Please review the above information in detail, then, adjust the picture as follows:

1. For the idea of human observation let us substitute the idea of informational exchange, which is essentially identical. Now, this is usually reserved for particles exchanging state information, so, we have a paradox if we accept this limited view of processes and entanglement as resulting from micro particulate interactions, an egg created before the hen, and indeed this is not the case. If we substitute the more fundamental idea of thermal exchange in the early universe, then we have a self-observing system. That implies the field energy density is therefore in fluctuation. That energy in fluctuation is therefore the temporal field made manifest. Now we can define the field properly.
2. We are all given mass by virtual particles as made manifest in the gluonic field, and the Higgs fields...everything is composed as an instantiation of special relativity—we and all the rest of reality is virtual. A particle is a ripple in an energetic field. So if the entire of the most basic field from which all others spring, the fluctuating energy density itself, is in field-wide fluctuation, that *homogeneous* fluctuation, as a system-wide ripple, we can conclude the temporal field is itself an undifferentiated virtual particle. A proto-particle from which any and all may emerge. A universal stem cell if you will. Proto-reality...that from which entanglement and superposition is defined. Potential for all things and states—the potential simultaneity of entanglement and superposition of all outcomes. The temporal field.

I will state the definition of temporal mass which is implied by temporal field theory: Temporal mass is the ability to increase the probability outcomes of unlikely events. Temporal mass is that influence exerted upon the temporal field by way of increased informational exchange/observation and or bidirectional temporal mobility which increases the probability outcomes (manifest resolution) of unlikely events. [Of course, bidirectional temporal mobility itself increases informational exchange.]

Super massive objects like black holes exhibit this property and generate unlikely events all the time, they exhibit negative energy density, time is absent in them, light can not escape...impossible stuff! The information in them is in constant proximate exchange and also, they have temperature and radiate, distributing information and immense interactive gravitation into space. Self-aware objects also generate temporal mass as systemic observers with bidirectional temporal mobility. Measuring devices exert temporal mass by way of observational informational exchange.

Implications for quantum theory:

Now the result of this theoretic adjustment can be understood: All outcomes we observe are the result of wave-function collapse, as the temporal field is undifferentiated. A quantum experiment then, is in all cases the end result of such a collapse, and indeed represents a complete outcome. The reason we observe a different result in quantum experiments under measurement and observation now flows easily from the theory and is quite rightly expected. To observe, we have added additional temporal mass (from increased informational observation/exchange) to the experiment over the previous configuration of the self-observing system, and as a result of this increase is the increased *resolution resultant of the field*, and indeed, this is exactly what we see, as the outcome is even more precisely defined. So a quantum experiment in all cases demonstrates a fully differentiated outcome as something other than the field in fluctuation is observed, and, such an experiment SHOULD demonstrate increased resolution to be measured or further observed, as this increases the temporal mass contributing to temporal field, and hence, its manifest resolution. All outcomes are complete second-order outcomes of the temporal field. Only the field's strength to create further resolution is in variance. I believe this solves the mystery of the effects of observation upon quantum experiment.

A Preliminary conclusion: Think of the unconscious as the non-linear entangled/superposition part of ontological pre-processing, and the non-linear entangled/superposition stage of quantum activity, as the universal unconscious pre-processing from which the manifest domain springs. The temporal field then, is as the neural system wide potential...the ARAS down to the most basic energetic contributors like glutamate, etc.

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