

Three new ideas—quantum energy, the temporal field, unconscious processes and black hole holography.

One of the supreme pleasures of writing for this forum is the free hand to discuss new ideas and thoughts with an audience which is predisposed to the enjoyment of such things. That is rare. I will present a few new thoughts which sprang into my head over the last week or so, and hope to encourage the community to contribute their ideas about these things. Who knows...perhaps we can figure it out and begin to make a difference in some vital areas? Many of these ideas are speculative, and I do not apologize for this fact. All new truths begin as a guess most creative. Revelation is a sudden houseguest who never brings credentials. If we have a fact, or a beautiful farce, is not known until the idea is explored and tested by experiment. So please permit me room to err, for all new facts, begin as a question. Here are some thoughts on clean energy production, a proposed primary temporal field responsible for the resolution of quantum states, and a hypothetical connectivity between unconscious processes and black hole holography as energetic universal instantiation.

Clean energy speculations:

Please read this paper on Time Crystals, and the Penrose/Hameroff Orch OR.

<http://arxiv.org/pdf/1202.2537v2.pdf>

<http://www.sciencedirect.com/science/article/pii/S1571064513001188>

Here we have another possible clean energy source (please see the earlier article on the amplitude compounding harmonic multiplier, or view the text on BlogIQ, "The Orch OR theory of consciousness and the amplitude compounding harmonic multiplier").

<http://blog.theultranet.com/2014/04/the-orch-or-theory-of-consciousness-and-the-amplitude-compounding-harmonic-multiplier.html>

The source is not quite what you might imagine though. In the case of time crystals and also of MT structures specified in the Orch OR (and the presence of those mechanical vibratory perturbations are not so controversial as the Orch OR itself), we see low energy mechanical output stemming from greater source energy...much greater. The time crystal is often referred to as almost a sort of perpetual motion machine. Now we must not be too surprised at that, indeed we are all virtual perpetual motion machines as is the universe! By this I mean that we are a sort of holography, a term thrown around most carelessly, which in this case means we, and all the manifest universe of objects, are an active demonstration of special relativity each and every moment! Our mass is entirely virtual...mostly created from the gluonic field, partly from the Higgs fields, each and every moment as a function of virtual particles! Here is a link to demonstrate the truth of this:

http://media.wix.com/ugd/cf8614_b0596eaf80ff4507a52c69b28c7b646b.pdf

You may also reference that information from this site under the title, "Active Relativity—virtual mass: the mathematics of divinity." The implication is that we are actively created each and every moment from the energy density of the vacuum! Each moment! We are direct instantiations of special relativity. So we can see that the source energy of the vacuum all around us is massive...a square yard box is enough to destroy the universe or solar system depending upon how closely the calculations approach the Planck length and energy.

It is clear that the beat frequency energy, the vibratory mechanical energy in MT structures, or, the tiny regular vibrations of a time crystal, are indications of much greater energies from which these effects spring. Now, I have proposed that one might collect these tiny amounts of manifest mechanical energy by way of mechanical phase synchronized amplitude compounding. A seemingly silly idea! A mechanical device? It may not be so silly. It seems that a similar device utilizing a thin vibrating metal plate has been constructed and allows one to remove the quantum fluctuations responsible for the uncertainty relation.

<http://www.caltech.edu/content/tricking-uncertainty-principle#sthash.9h81VCdW.dpuf>

Now it gets interesting! If we can remove the interference created by the source, we should be able to reverse that, and collect it! The source is of course the fluctuations of the vacuum itself! How? I am not exactly sure...perhaps you can connect these threads together.

1. Consider the idea from string theory which states that the energy/mass from a particle is sourced at the Planck scale as massive, and only by way of very perfect vibratory cancelations to the tune of parts in well over a million or more is mass/energy reduced to produce the array of light manifest particles. Could these patterned cancelations be disrupted or removed? If so, massive quantities of energy are available. Huge amounts. Could the output of the device which removes uncertainty be adjusted to cancel the vibratory regulatory mechanism at the level of the string? In string theory, even an object as heavy as a top quark which is 189 times as heavy as a proton, has most all of its mass/energy canceled out by way of vibrational flux so precise as to account for one part in one hundred million billion! The precision of these negative energy cancelations is astounding! If string theory is correct here, then, the massive amount of Planck-scale energy should be available if we can disrupt this precision. The result should be massive amounts of energy. a. Can you do the string theory math? If so, is it possible to discover the frequency of these cancelations? Then, it should be possible, if the energy is achievable, to send a pulse of some sort into a particle, and interfere with the cancelations liberating the Planck-scale mass/energy. Is it possible to determine the vibrational frequency of these negative fluctuations in association with even one specific type of particle? And if so, can such energies as to create resonance and disruption be achieved? The likely problem with this idea is the amount of focused energy required to produce the disruption pulse. Someone who can do the string math must determine the least energetic component which will cause destabilization of the particle's manifest mass via disrupted

negative cancelations. b. Can a complex compound wave which in part contains the same patterned frequency resonance be used at less energetic expense? Perhaps the excessive energetic expenditure can be ameliorated by creating such a compound wave, formed by generating an interference pattern between two lesser frequencies which produce via their cancelation, compounding and interference a waveform which in some part contains the correct frequency. c. Could a non-homogeneous asymmetrical or alternating field be created, something akin to a variable refractive index which affects vibrational expression, an asymmetrical field, perhaps even with shifting variance in its density so as to destabilize the cancelations across a particle by placing part of the particle in one field density, while another part of the particle is simultaneously interacting with a variant density? d. Could non-locality itself be used to disrupt the negative cancelations...eg., if two or three massive particles were entangled and placed in various divergent energy densities, or, even each suspended in an asymmetrical or alternating energy density field, would the cancelations then destabilize?

2. A source of difficulty in harvesting vacuum energy is its homogeneity. It is everywhere. Can we clear away the field energy density? If so the result is too obvious for words. How? Can we use what Hawking found around black holes...negative energy density? Is it possible to create a sort of negative energy density via magnetism...and could we use this to clear away the field and still get more than we put in?

3. Is it possible to harvest the vacuum fluctuations directly? Can the frequencies be collected and summed directly from the fluctuations? If Inflation found a predictable pattern strewn across the sky...fluctuations made into prediction, then, the fluctuating tangle should be resolvable, and a series of frequencies and amplitudes to be compounded can be separated, and extracted.

The temporal field: development and implications.

Next, I would like to introduce the notion of a temporal field. I will spell out the ideas in the way they arrived, so you may assess each piece in turn. You may find one formulation more useful than the other, although I am sure the second appears to me to be more correct.

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. (Perhaps the vacuum energy density itself in fluctuation is the temporal field?...or evidence of it is seen in the activity of fluctuation?) Double the field strength, and time would move more quickly in that area. 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 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."

You may also view the text on BlogIQ. Here is the link for that:

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

That is the first formulation. 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 is defined. Potential for all things and states—the simultaneity of entanglement 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.

Lastly, I wish to present a brief idea which connects together the notion of black hole holography and unconscious processing:

The holographic projection is as the Freudian transference... or a dream. [REM/BRAC (as protoconsciousness) cycles under consciousness to provide reality with affective definition and quality (Panksepp, 1998); PGO system in waking and REM mediates limbic affective definition (for reality) implied by (Stickgold, 2001), etc.]. The commonality between a black hole and the Freudian unconscious, is almost exact. This will allow another connectivity between mentation and physical processes, and suggest experiments. Ie. The Freudian unconscious as a source of definitional transference: All manifest ontological reality is created by the symbolically condensed distribution of affect from temporally asynchronous sources stored in continuous energetic and informational contact. No time is available, no contradiction (a property only endemic to projected virtual "3-d" contextualized definition of reality?), all information is ripe for symbolic condensation and projection to define reality, but, that information is unobservable. A black hole also has these qualities. (Temporal mass completes the connection).

I hope these ideas are interesting to you. Please feel free to comment and help me find the experiments and approaches which will best demonstrate or disprove these ideas. Thank you.

References:

Panksepp, J. (1998). *Affective Neuroscience: The Foundations of Human and Animal Emotions*. New York, NY.: Oxford Press.

Stickgold, R., Hobson, J., Fosse, R., Fosse M. (2001).
Sleep, learning, and dreams: Off-line memory reprocessing.
Science, 294, 1052 – 1057. doi: 10.1126/science.1063530

This work is the sole property of the author, Rich Norman © 2014, and is used by this forum with both permission and gratitude.