

Entanglement and atemporal genesis: Homogenous dynamism vs. non-evolutionary cross-cancellation

I have previously offered up what I believe is becoming a more generally accepted notion: that time emerges from the evolution of entangled states.

<http://arxiv.org/pdf/1310.4691v1.pdf>

I believe that the linear evolution of Bohmian mechanics is correct. There are no live/dead cats (please recall Schrodinger's famous conundrum). There are *not*. That is a bit of mathematical formalism which is useful, and, not representative of reality. Specifically, applied within the context of entanglement: unity, entanglement of a coherent state, is not the sum of many broken pieces...it is not the sum of the many things which are each simultaneous embedded potential...it is not. It is unity. (More below on the specifics). The superpositional ideation is a translation, a false translation capable of usefully allowing the decoding of encoded information—a translation matrix between a frame of understanding which is temporal and one which is not (qualification of note below), but it is not a reality. The cat passes from life to death in a linear way, it is not simultaneously dead and alive, although it may be useful to describe the situation with mathematics which suppose a mixture of dead and living animals. Unity, entanglement of a coherent state, is as a vase before breaking...it is a complete structure...it may decohere, shatter into many bits, but you can see...that the shards are not the same as the vase (and perhaps, not all need exist...see below). It was not composed of broken pieces...it was unity.

The connective idea which landed in my head is as follows (please note the confusion is mainly linguistic): mechanical perturbations from MT structures (please recall the Orch OR) and chromophores indicate not superposition but alternation...real oscillation, not simultaneity or the superimposition of probability waves representing states, but specific perfectly balanced alternation and oscillation. (Entanglement...not superposition). A coherent entangled state appears to me, to be a collection of specific and perfectly balanced alternations...oscillations between two charge states. Physicist George Rajna calls it: "moving the electric charge from one side to the other side of the diffraction pattern," [Rajna, 2014, The Secret of Quantum Entanglement; retrieved from www.mindmagazine.net]. As a light switch clicking one way then the next...perfectly balanced to create a coherent state. You can see that to stabilize the situation...to choose a side of the pattern, to stabilize the entanglement just as choosing a position of the switch, does not imply any strange other world or parallel reality to hold the selection not chosen! There is no superposition, no "many worlds" either! The collapse of a coherent state is a stabilization...no more or less. The idea of superposition is valuable though! It is what allows all the quantum atemporal information to be understood to us! It does not imply the reality of simultaneous outcomes...only entangled phenomenon which are themselves distinct outcomes.

Now to the new fun! If I am correct in this, we can draw a fascinating conclusion: there is atemporal time! Yes, there is! Imagine yourself within a coherent entangled state. It must be atemporal as the entangled state in question is not evolving or resolved. Also, as an oscillation or repetitive character is present we have a new sort of time which is endemic to coherent states: homogenous time. With no frame of reference but homogeneous oscillation, all change is absent...atemporal. This is all created within the uniform oscillating context of entanglement! That means that we have a context which is uniform, atemporal, homogeneous, and also, defined contextually within the system by way of a uniform sample rate...an oscillation of uniform quality. We can infer: the atemporal quality of nonlocal quantum phenomenon is created not through the absence of time, but due to its homogeneity of expression.

Condensation: "Homogeneous time" emerges from entangled oscillatory self-invariant dynamism, a self-symmetrical state where the atemporal systemic condition is maintained by way of endemic dynamic homogeneous temporal division of the non-evolving entangled state.

However, this notion of homogenous time is based on the simplistic assumption of a mere two entanglements...and it is quite possible that a great number of such entanglements may exist simultaneously! In this case, the coherent system would again, of course, not be evolving, however, a non-homogeneous series of cross-cancelations must emerge from the interactions resultant of the many interfering vibratory perturbations caused by the oscillations, and so, a series of tiny sample units of varying size corresponding to the frequency of each entangled contributor, and, a larger scale set of interference patterns and cancelations is sure to emerge—providing a temporally variable standard of measure which would allow a true measure of time without an external context! The strange implication is: a coherent state formed of many entanglements will create an internal self-invariant atemporal dynamic, but generated *from this*, is a true self-defined self-comparative temporal standard! The units of sample may be compared to the interactively emergent units of cancelation to yield discernible comparative variation apart from entangled non-evolution itself! Time is being marked off in coherent states as above, and, there is an endemic emergent context of comparison present in the cancelation and interference patterns by which its motion can be assessed. Here, again, we see the paradox emerge even more strikingly: Atemporal Time. In this instance, the absence of time in the usual sense is entirely a function of the homogeneity of the self-invariant balance of coherent entanglement...time being clearly present in the dynamic *manifestations* of the state, but, *absent within the state itself*—as the self-referential phenomenon is not (internally) defined by systemic evolution of the coherent state. There is time *in the result*...but due to self-invariant coherent nature of the entanglement, the result is not part of the dynamic which created it: a case of static dynamic balance, a non-evolutionary cause, creating a separate, emergent, self-comparative temporal structure.

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