

Wave-function as onto-physical transference: Collapse—an abstract encoding pt.1

I have derived a new and deep understanding of wave-function collapse through study of the work of Elio Conte in the context of my theories and affective neuro-scientific analysis. I wish to share this thinking over the next few articles. To grasp the import of these ideas, one must traverse several areas of scientific discipline, and come full circle, from neuroscience, to physics, to psychology and back. To understand these ideas, it will be vital to read the linked and referenced material.

I will begin by defining the affective basis of human consciousness anatomically:

### **Affective basis of human consciousness:**

Evolutionary biology, and neuropsychanalysis correct the typical idea, that cortical tone is consciousness. Yes, conscious experience has a clear relation to energetic distributions which extend from the ARAS to create a cortical tone, and a waking state. However, this is a later adaptation which is demonstrably secondary, and the true root of conscious experience is far older. The REM system is older than the sleep onset system yielding SWS, and, it is older than the waking system itself (Panksepp, 1998, pp. 125-143). *REM...this core system is lower, and older, than the waking system.* The highest concentration of REM initiating neurons are caudal to the ARAS. The Basic Rest Activity Cycle (BRAC) demonstrates the embedded REM cycle (Panksepp, 1998, p. 129). All that implies from many directions, that REM was once primary consciousness (Panksepp, 1998, pp. 133-135).

Also, remember the fact that EMOTION, the primary element of dreams (Stickgold, 2001; Hobson, 2002) is also demonstrably primary in maintaining consciousness: the periaqueductal grey, the locus of emotion and the primitive affective motor "self" (at its intersection with the superior colliculi) (Panksepp, 1998, p. 312)...this piece of tissue, the PAG, is the smallest bit upon which consciousness is dependent (Solms, 2013). Our consciousness is an emotional one...a consciousness of affect.

Please note this further role of the embedded REM system as it performs functional dynamics associated with an evolutionarily primary consciousness:

The FTG neurons, the giant neurons of the reticular tegmental fields which mediate rapid movement while awake, exhibit storms of spiked activity during REM (eg., PGO spikes), indicating their probable role participating in that same capacity, as orienting reflexes, associated with a primitive conscious REM (Panksepp, 1998, pp. 133-135).

We see the underlying older system revealed in dreams. The Dorso Lateral Prefrontal Cortex (DLPFC), is demodulated in REM. Emotion is released. The hidden emotive definitional processes are amplified as well (hyper-modulated limbic system), allowing us to watch. "This would be in keeping with the proposed role in waking of these structures in the identification of mismatches between expected and actual behavioral outcomes (122–125) and would also explain the similarities seen between cholinergic and

PGO activity in the amygdala during REM on the one hand and during alerting and orienting responses in awake animals on the other (126–128)" (Stickgold, 2001, p. 1056). The DLPFC is inactive, logic curtailed. So in REM, the brain is aminergically demodulated (low noradrenergic, serotonergic and histaminergic activity), and along with predominant acetylcholine modulation, the primary underlying system is revealed.

So, the underlying REM system, which is older than the waking system was once primary consciousness for our evolutionary ancestors, and this primary conscious source, can be revealed as ego structure and logical processes are curtailed, as in REM dreams, where the DLPFC is demodulated, or, by way of linear (ego) destructuralization revealing primary processes fostered by extensive meditative practice, or, to some extent as well, in psychedelic drug use (Carhart-Harris and Friston, 2010).

Now, let us consider the cortex in its relation to affect. Neuropsychanalysis has allowed us not inconsiderable insight here. *Libido*, is the undifferentiated affect which powers our modern waking state. Think of libido as undifferentiated systemic potential, mediated by precious few recombinations of neurochemical distribution, issuing from the ascending reticular activating system so as to create cortical tone (Kaplan-Solms & Solms, 2002, pp. 264-267).

We may rightly conclude, consciousness is affective at its primary process formative level, and, affective at the level of the cortex as well. *Human consciousness is entirely affect dependent.*

Next we must consider the encoding of an abstract mathematical object, in its relation to wave-function collapse as defined by the Clifford algebra of Dr. Conte (2013, 2015). First the definition of an abstract mathematical object:

". . . abstract objects are constituted by the properties through which we conceive or theoretically define them and therefore are connected to those properties in a way that is very different from the way ordinary objects bear their properties. I may say that mathematical objects encode these constitutive properties, though they may exemplify or even necessarily exemplify, other properties independently of their encoded properties. On the contrary, ordinary objects only exemplify their properties. As mentioned by Nodelman and Zalta, as example, ordinary triangular objects (as example, the faces of some physical pyramid, triangles) exemplify properties like having sides with a particular length, having interior angles of particular magnitudes, being made of a particular substance, and so on. By contrast, the mathematical object, such as the Euclidean triangle, does not exemplify any of these properties indeed, it exemplifies their negations. Instead it encodes only the theoretical properties implied by being triangular, such as being trilateral, having interior angles summing to 180 degrees and still more. The Euclidean triangle encodes no other properties than those implied by being triangular. Therefore, although classical logic requires that exemplification mode of predication exclude objects that are incomplete, the encoding mode of predication allows us to assert the existence of abstract objects that are incomplete with respect to the properties they encode."

[From: Cognition and Consciousness as manifested in the quantum model of reality realized by using Clifford algebra, pp. 113-114, Elio Conte, (2015)]

Next, please closely review the references (Conte, 2013, 2013a, 2015). Now we can easily see that reality is projected from the pre-space into a sub-space. This pre-space is quantum.

The ideas of nonlocality, superposition and entangled phenomenon are the basis of quantum theory. This quantum basis is the potential from which linear reality springs. There is no distance or time in the usual sense, communication may be instantaneous between objects, and all things are expressed additively, instead of oppositionally, one might say in terms of "and," rather than "or," as a function of superposed compounding of wave-function. The unconscious is self-similar if not isomorphic to the nonlocal pre-space. From the unconscious, we "project" *by way of transference* (Norman, 2013, p. 9) to give reality its quality, in both pathological and healthy cases. I assert: *The unconscious is our perceptual ontological quantum genesis: the "primary process." The projection into a subspace to create reality, is the micro-quantum level of the transference itself. Wave-function collapse leading to perception, is itself: the transference.* Here is the definition of primary process unconscious mentation:

"The cathectic intensities [in the Ucs.] are much more mobile. By the process of displacement one idea may surrender to another its whole quota of cathexis; by the process of condensation it may appropriate the whole cathexis of several other ideas. I have proposed to regard these two processes as distinguishing marks of the so-called primary psychical process." . . . "exemption from mutual contradiction, primary process (mobility of cathexes), timelessness, and replacement of external by psychical reality" (Freud, 1915e, p. 186-187).

I hope the reader can clearly see the relation, the lack of contradiction (primary process thinking creates compounded symbols, compromise formations symbols (Freud 1900), additions, *superpositions/entanglements*, never either/or contradictions), linear distance is not available as all is in proximate associative contact, and so may transfer instantly masses of cathexis, the lack of linear time, and in the case of dreams and psychotic symptoms, the hidden associative nonlinear encoding process itself becomes manifest, and replaces the external reality it is meant to define.

I have now defined the affective basis of human consciousness and defined the process of projecting mathematical abstract objects from the pre-space as akin to the transference which creates ontological reality. Next week the topic of wave-function as it relates to the knowledge factor and consciousness will be articulated.

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