

Recently I have been reading the book by Oliver Sacks titled `\blockquote{Musicophilia}` dealing with various aspects of music experience. Humans as a species indeed have a very special relation to music. But is it really genuine characteristic of human consciousness? One can even ask whether consciousness emerges only in higher species or whether it could be in some form a characteristic of any living or even inanimate system? I am not the only quantum consciousness theorists forced to consider panpsychism in some form. In this framework one can ask whether music like aspects of conscious experience could be universal and only especially highly developed in humans?

In this chapter I restrict the consideration to those stories of `{\it Musicophilia}`, which I find of special interest from the point of view of TGD inspired theory of consciousness. The outcome is a more precise formulation for the general TGD inspired vision about brain based on basic ideas of quantum TGD.

Zero Energy Ontology (ZEO) implies a new view about the relation between geometric and experienced time and allowing to generalize quantum measurement theory to a theory of consciousness.

Strong form of holography implies the analog of AdS/CFT duality between 2-D representation of physics based on string world sheets and partonic 2-surfaces and 4-D space-time representations. This duality is not tautology and this inspires the idea that these two representations correspond to two modes for consciousness motivating `\blockquote{Left brain talks, right brain sings}` metaphor.

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`\item` Language and music could relate to two dual representations of conscious information – local and holistic, cognitive and sensory. Discretization of function/its Fourier transform as a collection of its values at discrete set values of time/frequencies would correspond local/holistic approximations of function. In principle any conscious entity – self- could utilize these two representational modes at appropriate quantum criticality.

\item The holistic \blockquote{musical consciousness} is assignable to right brain hemisphere and according to the stories of Sacks seems to be characterized by episodal sensory memories. TGD based view about memories relies on ZEO: the memories would be mental images with sensory input from geometric past, genuine sensory experiences of time reversed sub-selves! This picture simplifies considerably and one can see all memories – sensory, cognitive, or emotional – as analogs of phantom pain, which would be also a sensory memory and even more a genuine sensory experience. It is even possible that our biological bodies are used by two selves: right brain hemisphere sleeps when we are awake and vice versa. Even the experiences of epileptics about having double consciousness could be understood.

\item A more concrete realization of \blockquote{Left brain talks, right brain sings} metaphor relies on the assumption that \blockquote{magneto-anatomy} is universal. Only the \blockquote{magneto-physiology} characterized by the values of h_{eff} characterizing quantum criticality and defining a kind of intelligence quotient dictating the span of long term memory and planned action varies.

h_{eff} would differ for the magnetic bodies of various brain areas, and the spectrum of h_{eff} for right and left brain would differ and characterize their specializations. For instance, the value of h_{eff} would be large (small) for the cognitive areas of left (right) brain and small (large) for some higher sensory areas of right (left) brain. Magnetic bodies form a fractal hierarchy and one can characterize even individual cells and neurons by the value of h_{eff} associated with them. The spectrum for h_{eff} allows also to distinguish between members of the same species since it defines the skill profile. This obviously goes far beyond the genetic determinism.

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