
Nature of time

TGD view about the nature of time

1. answers several open questions such as how
 - (a) the flow of experienced time emerges
 - (b) the arrow of geometric time is induced from that of subjective time
 - (c) the localization of contents of sensory experience to finite time interval results
2. relies on TGD view about state function reduction (SFR) based on Zero Energy Ontology (ZEO) and Negentropy Maximization Principle (NMP)
3. explains the experience about flow of time in the following manner:
 - (a) In ZEO state function reduction can occur at both boundaries of CD but can occur repeatedly at given CD boundary
 - (b) In the repeated reduction the already reduced positive/ negative energy state remains the same just as the state function remains invariant in ordinary SFR
 - (c) Second boundary corresponds to a wave function in the moduli space of CDs and changes: since the distance between the tips of CD is one moduli the average value of this distance tends to increase just as it does in diffusion
4. explains the arrow of time in terms of repeated state function reductions at same boundary and the localization of sensory experience inside short time interval of order .1 second in terms of subCDs of duration of about .1 seconds assignable to electrons.
5. explains self as a sequence of state function reductions occurring at the same boundary of CD and act of free will as the first state function reduction changing the arrow of time at some level of self hierarchy.
6. predicts that the arrow of time can change
 - (a) NMP should dictate whether it can occur
 - (b) The models of memory, remote metabolism and realization of intentional action rely on negative energy and require change of the arrow of time for these signals.
 - (c) Phase conjugate laser light beams serve as good candidates for this kind of signals
 - (d) Already physicist Fantappie introduced the idea that the arrow of time is not fixed in living matter and introduced the notion of syntropy identifiable as entropy but with opposite arrow of geometric time