

TGD Inspired Theory of Consciousness

This book tries to give an overall view about TGD inspired theory of consciousness as it stands now.

The basic notions TGD inspired theory of consciousness are quantum jump identified as a moment of consciousness, self identified as sequence of quantum jumps analogous to bound state of particles, self hierarchy with sub-selves experienced by self as mental images, and sharing and fusion of mental images by quantum entanglement.

The topics of the book are organized in the following manner.

1. In the first part of the book TGD inspired theory of consciousness is discussed. There are three summarizing chapters giving a view about how ideas have evolved. There are also chapter about Negentropy Maximization Principle, about the notion of self, and about sensory representations.
2. The second part of the book contains two chapters about the relationship between experienced and geometric time. The first one is more than decade old. The second one - inspired by zero energy ontology and written quite recently - provides a rather detailed vision about how the arrow of geometric time correlating with the arrow of experienced time and the localization of the contents of sensory experience to a narrow time interval emerge. The chapter explaining TGD based view about long term memory is also included.
3. The third part of the book summarizes roughly decade old view about intelligence and cognition. p-Adic physics as physics of cognition and intentionality and many-fermion states as representations of Boolean statements are the key notions. In zero energy ontology also quantal versions of logical rules $A \rightarrow B$ realized as quantum variants of Boolean functions emerge at the fundamental level. A chapter about the role of dark matter hierarchy, in particular about topological quantum computation as a universal information processing tool, would be needed to make the picture more complete.
4. The fourth chapter is devoted to remote mental interactions. The theoretical motivation for taking remote mental interactions seriously is that exactly the same mechanisms which are involved with the interaction between magnetic body and biological body apply also to remote mental interactions in TGD Universe. One could also understand why these phenomena are rare: a kind of immune system making it impossible for foreign magnetic bodies to control and communicate with the biological body possessed by a particular magnetic body would be a highly probable (but perhaps not unavoidable) outcome of evolutionary process.