

TGD Based View About Living Matter And Remote Mental Interactions

The book is intended to be a concise summary about the applications of TGD in consciousness theory, living matter, and remote mental interactions. The book begins with a very concise summary about TGD in the hope that it might help the mathematically oriented reader to gain an overall view: the notion of many-sheeted space-time and topological field quantization are of special importance for understanding biology in TGD Universe.

Quantum jump identified as moment of consciousness, the notion of self reducing to that of quantum jump, Negentropy Maximization Principle (NMP), zero energy ontology (ZEO), and the new view about relationship between subjective and experienced time are essential pieces of the vision. The identification of p-adic physics as correlate for cognition, the view about life as something in the intersection of real and p-adic worlds -matter and cognition - , and the notion of number theoretic negentropy are central in biological applications.

Magnetic body carrying dark matter and forming an onion-like structure with layers characterized by large values of Planck constant is a key concept of TGD inspired biology. Magnetic body is identified as intentional agent using biological body as sensory receptor and motor instrument. The role of magnetic body in various biological functions, and the new view about metabolism and its relationship to the generation of negentropic entanglement are discussed.

The applications to neuroscience are touched. The general model for the sensory qualia and for generation of attention and qualia leads to a view resembling the Orch OR of Penrose and Hameroff. Models for nerve pulse generation and EEG - or rather a fractal hierarchy of XEGs generalizing it serving as a communication tool in commutations between biological body and magnetic body - are proposed.

The mechanisms making possible for the magnetic body to control and receive sensory information from biological body apply can be regarded as those for remote mental interactions. Therefore also remote mental interactions are briefly considered in the proposed conceptual framework. Also tests for the general vision are also considered.