$\operatorname{Out-of-body}$ experiences (OBEs) are often understood as experience of

seeing oneself from a position outside of the body. OBEs are poorly understood in the framework of neuro science and pose a challenge for the

reductionistic world view.

In TGD framework the notion of magnetic body provides an attractive starting point in attempts to understand what OBEs and related experiences

are. The basic idea is that magnetic body serves effectively as a mirror

defining a third person view as a cognitive representation also in ordinary

wake-up state and that during OBEs this representation becomes sensory

representation. Magnetic body need not always be a personal magnetic body

but could correspond to a magnetic body receiving information from several

brains (collective consciousness), magnetic body of another person, or be

even associated with \blockquote{dead} matter.

The progress in identifying dark matter as a phase of matter with large

value of Planck constant making possible macroscopic quantum coherence has

led to the vision about dark matter at magnetic flux quanta as quantum

controller of ordinary matter in living systems. The Bose-Einstein condensates of dark photons decaying via decoherence to ordinary photons

mediate interactions between ordinary and dark matter and the hypothesis is

that dark photon \blockquote{laser} beams from body and brain reflected at magnetic

flux quanta give rise to third person aspect of consciousness which in OBEs

and related experiences are realized as sensory representations. The identification of bio-photons as end products of the de-coherence of dark

photon beams is natural.

Zero energy ontology and the notion of causal diamond (or CD defined roughly as the intersection of future and past directed light-cones) brings

additional quantitative ingredients to the model. Sub-CDs define imbedding space (\$M^4\times CP_2\$) correlates for selves and by holography

the 2-D partonic 2-surfaces at the light-like future and past

boundaries of

CDs are the ultimate space—time correlates for mental images. The moduli

space for CDs makes possible a more detailed view about sensory representations.

A further new element is the vision about life as something in the intersection of real and p-adic worlds. The most important outcome is that

the notion of number theoretic entanglement negentropy making sense in this

situation is positive so that entanglement carries conscious information.

The fusion of selves (in particular mental image) by negentropic entanglement is experienced as expansion of consciousness. It is negentropic entanglement between parts of biological body and corresponding

parts of the magnetic body and biological body which makes living system

living. This negentropic entanglement between magnetic body and biological

body is important also for OBEs.

The model leads also to a model for dreams, hallucinations, sensory feedback from brain to sensory organs, and directed attention.

Concrete

models for how dark photons can give rise to experiences in various sensory

modalities such as vision, hearing, olfaction, and tactile senses, are

proposed.