
Similarities between TGD and string models

1. Cosmic strings that is string like objects idealizable as string world sheets in spacetime are predicted to dominate early cosmology and thicken later to magnetic flux tubes carrying monopole flux and playing a key role in various scales, especially so in elementary particle physics, nuclear physics, biology, and cosmology so that TGD physics is much more "stringy" than that predicted by string models.
2. Well-defined em charge for modes of induced spinor fields requires their localization to string world sheets inside space-time surface so that elementary particles hadrons, etc. correspond to string world sheets and magnetic flux tubes containing them.
3. Spontaneous compactification leading to landscape catastrophe is not needed in TGD but has as counterpart $M^8 - H$ duality defining "number theoretic compactification" and giving for $M^4 \times CP_2$ and standard model symmetries number theoretic meaning. This duality generalizes to $H - H$ duality leading to the conjecture that preferred extremals form a category with arrows defined by the dualities.
4. Strong form of General Coordinate Invariance suggests strong form of holography suggesting effective 2-dimensionality meaning that partonic 2-surfaces are basic dynamical objects and perhaps having string world sheets as dual objects meaning highly "stringy" description but this only in given UV and IR resolutions due to the non-determinism of Kähler action.