
Differences between TGD and string models

1. Induced field concept implying geometrization of classical fields and of quantum numbers, and sub-manifold gravity plus powerful constraints between classical fields. This implies
 - (a) problem due to the lack of linear superposition and solved by superposition of effects of fields made possible by many-sheeted space-time.
 - (b) problem due to the lack of linear superposition and solved by superposition of effects of fields made possible by many-sheeted space-time.
2. String world sheets in 10/11-D spacetime are replaced with 4-D space-time surfaces so that 4-D space-time is present from beginning rather than resulting by spontaneous compactification or as brane.
3. TGD predicts also string like objects and string world sheets carrying fermion fields. TGD strings however differ from those of string models: strings/string world sheets can become knotted in 3-space/4-D space-time giving rise to TGD predicts also string like objects and string world sheets carrying fermion fields. TGD strings however differ from those of string models: strings/string world sheets can become knotted in 3-space/4-D space-time.
4. In string models spontaneous compactification gives rise to huge number of target spaces and leads to landscape catastrophe and loss of predictivity whereas in TGD imbedding space is non-dynamical and expected to be highly unique from the mathematical existence of WCW metric.
5. 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 $M^4 \times CP_2$ and standard model symmetries number theoretic meaning.