

What TGD is+

1. TGD represents a new world view motivated by deep problems in various branches of recent day science: physics, biology and neuroscience and consciousness
2. TGD consists of three parts: TGD as a unified theory of fundamental interactions, TGD inspired theory of consciousness and TGD inspired quantum biology.
3. TGD has also challenges and implications for mathematics. The preferred extremals of Kähler action are 4-surfaces of $M^4 \times CP_2$: one ends up with several mathematical conjectures concerning their identification. The "world of classical worlds" (WCW) is an infinite-dimensional geometry whose formulation and understanding represents a challenge for mathematicians. The huge symmetries of TGD involving generalization of the ordinary 2-D conformal invariance should be carried out rigorously. The generalization of quantum physics by introducing number theoretical universality brings in several mathematical challenges such as defining what p-adic manifolds and p-adic sub-manifold geometry are. The notion of infinite prime is purely TGD inspired notion.