

The True End of Theoretical Physics

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Abstract: The Theory of Everything (ToE) is the ordinary sum of the Scale-Symmetric Theory (SST), General Theory of Relativity (GR) and Quantum-Physics/Standard-Model (QP/SM). The SST causes that GR and QP/SM transform into the coherent theories without infinities, singularities, approximations, mathematical tricks such as the mathematical indeterminate forms and others, and free parameters. Moreover, within SST we can partially unify GR and QP/SM and show that unification of these theories within the same methods is impossible - it does not follow from incompleteness of such ToE but from the fundamental property of spacetime. Here we listed the basic problems that are solved within such ToE - such list overlaps with the list of unsolved basic problems in cosmology, GR, general physics, QP, high-energy physics, particle physics, astronomy, nuclear physics, high-temperature superconductors, and so on. Scientific journals should not validate incoherent theories because it misleading scientific community and radically increases entropy in physics i.e. radically increases mess in physics.

The Theory of Everything (ToE) is the ordinary sum of the Scale-Symmetric Theory (SST) [1], [2], General Theory of Relativity (GR) and Quantum-Physics/Standard-Model (QP/SM). The SST causes that GR and QP/SM transform into the coherent theories without infinities, singularities, approximations, mathematical tricks such as the mathematical indeterminate forms and others, and free parameters. Moreover, within SST we can partially unify GR and QP/SM and show that unification of these theories within the same methods is impossible – it does not follow from incompleteness of such ToE but from the fundamental property of spacetime.

The SST shows that the succeeding phase transitions of the superluminal non-gravitating Higgs field during its inflation (the initial big bang) lead to the different scales of sizes/energies [1A]. Due to a few new symmetries, there consequently appear the superluminal binary systems of closed strings (entanglons) responsible for the quantum entanglement (it is the quantum-entanglement scale), stable neutrinos and luminal neutrino-antineutrino pairs which are the components of the luminal gravitating Einstein spacetime (it is the Planck scale), cores of baryons (it is the electric-charge scale), and the cosmic-structure/Protoworld (it is the cosmological scale) that evolution leads to the dark-matter

structures (they are the loops and filaments composed of entangled non-rotating-spin neutrino-antineutrino pairs), dark energy (it consists of the additional non-rotating-spin neutrino-antineutrino pairs interacting gravitationally only) and expanding Universe (the “soft” big bang due to the inflows of the dark energy into Protoworld) [1A], [1B]. The electric-charge scale leads to the atom-like structure of baryons [1A].

Below is the list of the basic problems that are solved within such ToE – this list overlaps with the list of unsolved basic problems in cosmology, GR, general physics, QP, high-energy physics, particle physics, astronomy, nuclear physics, high-temperature superconductors, and so on [3]:

- Origin and history of the Cosmos, shape of the Cosmos
- Baryon asymmetry
- Processes that cancel out the zero-point energy of the vacuum
- Dark matter and dark energy
- Problem of time, arrow of time, entropy
- Why quantum gravity does not exist
- Non-locality
- Fundamental physical constants

The seven fundamental forces (the force resulting from dynamic viscosity of non-gravitating tachyons, the directional superluminal entanglement, volumetric confinement, gravitational force, electromagnetic force, weak force and nuclear strong force)

- Mass gap
- Wave-function collapse
- Black holes, supermassive black holes, jets
- Higgs mechanisms for neutrinos and other Principle-of-Equivalence particles, neutrino mass
- Hierarchy problem, Planck mass
- Magnetic monopoles
- Crisis of proton spin, proton muonic-radius puzzle, anomalous magnetic moment of muon
- Modified supersymmetry
- Generations of matter
- Colour confinement
- Strong CP problem
- Galaxy rotation problem
- Supernovae
- Ultra-high-energy cosmic rays
- Dipole anisotropy of CMB
- Space roar
- Quantum chromodynamics, nuclear force, plasma physics
- Temperature superconductors, and so on.....

$$\text{ToE} = \text{S-cales} + \text{QUA-nta} + \text{RE-lativity} = \text{“SQUARE”}$$

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References

- [1] Sylwester Kornowski (2015). *Scale-Symmetric Theory*
- [1A]: <http://vixra.org/abs/1511.0188> (Particle Physics)
- [1B]: <http://vixra.org/abs/1511.0223v2> (Cosmology)
- [1C]: <http://vixra.org/abs/1511.0284> (Chaos Theory)
- [1D]: <http://vixra.org/abs/1512.0020> (Reformulated QCD)

- [2] Sylwester Kornowski (2012-2016; but foundations of SST were published already in 1997: see [1A])
http://vixra.org/author/sylwester_kornowski
- [3] https://en.m.wikipedia.org/wiki/List_of_unsolved_problems_in_physics