Flaws of Modern Physics

Misleading Assumptions:

- 1. Time is homogeneous; all the fundamental parameters of Nature are universal constants.
- 2. Einstein's GTR is applicable to large-scale cosmology.
- 3. At the subatomic level, gravitation and electricity operate at the same mode at which they operate at the macroscopic level.
- 4. The gravitational mass of a massive particle is proportional to its inertial mass, and photons possess gravitational mass.
- 5. An origin can be physically affected only by its past cone.
- 6. Rutherford's atomic model is essentially correct.
- 7. In addition to gravitation and electricity, there are also strong and weak interactions.
- 8. A false rule that is derived from the above misleading subatomic dynamics: Coexistence of quarks and leptons in one sub-atomic particle is excluded.
- 9. Space-time is four dimensional.
- 10. A macroscopic body can be in a state of superposition.
- 11. A decrease in the entropy of a cosmological system never takes place; there is no inverse cosmological process to thermonuclear fusion.
- 12. The cosmological red-shift and the cosmological background radiation result from a universal expansion; Hubble's law is correct.
- 13. The cosmic rays towards Earth indicate that the symmetry between matter and antimatter had been broken.

Misinterpreted or Unexplained Observations:

- 1. Cosmological red shift
- 2. Glowing nebulas
- 3. Newborn stars rich in hydrogen
- 4. Abundance of helium in the universe
- 5. Cosmological background radiation
- 6. Black holes
- 7. Cosmic rays
- 8. Cosmological jets and relativistic jets
- 9. Earth's hot core, and the difference between Earth and Mars
- 10. Non-uniform distribution of matter in the universe
- 11. Cosmological regions of extremely different states in one galaxy
- 12. Quasars
- 13. Cosmic radio sources
- 14. The universe is not in the process of gravitational collapse.
- 15. Globular clusters and spherical galaxies
- 16. The dynamics of spiral galaxies
- 17. Neutrino oscillations
- 18. Neutral Kaons and other neutral mesons
- 19. Instability of subatomic particles that, according to the Standard Model, are non-composite elementary particles

- 20. The boson observed in 2012 in CERN, which is misinterpreted as a Higgs boson
- 21. Observations of very large cosmological structures existed when the universe, according to the big bang model, was very young and very small