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.

14. A photon is its own antiparticle.

Misinterpreted or Unexplained Observations:

1. Cosmological red shift
2. Red giants and 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