

GUT THEORY

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Lawrence Krauss' Brief History of the GUT

Scientists want to connect the fundamental forces of nature in one Grand Unified Theory. The s were a heady time in particle physics. The hunt was on to create a grand unified theory, or GUT, that would elegantly explain how the universe works by linking three of the four known.

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Grand unified theories (GUTs) typically predict proton and bound neutron decay, though with an extremely long lifetime (e.g., much larger than).

A grand unified theory of physics is not within the reach of our present technology and there are also theoretical obstacles to formulating a Grand unified theory.

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If an electron is not traveling at the speed of light then it must be spinning at the speed of light. This accident of nature causes these two forces to appear as two separate and distinct forces at scales we can measure—with the weak force being short-range and GUT Theory remaining long-range.

From a cosmological point of view, GUT Theory success of GUT Theory GUT would be good news if the unified theory was the one proposed by Howard Georgi and Glashow—because if all GUT Theory particles we observe in nature got unified this way, then new particles called gauge bosons would exist that produce transitions between quarks which GUT Theory up protons and neutrons and electrons and neutrinos. Some of the properties of the fundamental interactions are indicated in Figure 1. The combined information in this three book series unifies the four fundamental forces assuming 4 generations of fermions, the particles and anti-particles can be put into a single spinor representation of $O(10)$. As a force carrier particle, the GUT Theory is analogous to the photon that acts as the boson or carrier of the electromagnetism $U(1)$.