

Is the Standard Model an incomplete theory?

Leptons:



Force carriers



The Higgs boson

165 1k 9 8 1.1k

Background

If the Standard Model of particle physics is incomplete, it may require changes, like being: rewritten, updated, removed, supplemented (with complementary models), etc.

"In the 1970s, physicists realised that there are very close ties between two of the four fundamental forces – the weak force and the electromagnetic force. The two forces can be described within the same theory, which forms the basis of the Standard Model." (1)

However, this model is missing other particles that are known to exist, which this discussion examines and uses to figure out if a new particle model's necessary to include them.

Note: the owner has some knowledge of physics and a limited knowledge of the Standard Model and quantum physics. There's limits of admin capability at this time until better comes along (claims with advanced knowledge will automatically get accepted), which this discussion's open to, being a public one.

The purpose of this discussion is to start thinking about and hopefully work on overlooked issues (due to the rapid changes in technology and in general) that we should start looking at, thinking about, and working on.

Discussion Topology



Tags

Particle Physics Higgs Boson Dark Lhc

Participants	Claims	Contributions	Votes
vegforlife	85	636	6
haumea	70	332	0
avada	7	40	0
Cailem	3	8	1
YetAnotherDaveAgain	0	4	0
BrettVO	0	1	0
elifino	0	1	0
magiisto	0	0	2

There are other models that are more encompassing.