

Renormalization

Pre-Lecture Reading/Post-Lecture Summary

It is now time to turn to one of the most subtle but profound topics in particle physics. This is the topic of renormalization, which also rears its head in many other areas of physics, particularly when we wish to see how the appropriate description should change as we shift the energy scale with which we probe a system. We will begin uncovering the fabled infinities that plague QFTs, regularize them, redefine reality and then watch the problems fade away. Then you will leave and be happy.