

Abstract

As is well-known the Higgs mass obtains a quadratically divergent loop correction leading to the well-known hierarchy problem for which various solutions, e.g., supersymmetry, have been suggested. The very existence of this problem is a subject of debate. In fact, there is a group who claim there is no real problem because the scale invariance protects the Higgs mass. According to this claim, the quadratic divergence is an artifact of using the wrong regularization scheme. We discuss both points of view with a critical approach.