

Theoretical implications of present LHC unobservation

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The experimental results of the first run of the Large Hadron Collider lead to the discovery of the Higgs boson but have not confirmed the dominant theoretical paradigm about the naturalness of the electro-weak scale, according to which the Higgs boson should have been accompanied by supersymmetric particles or by some other new physics able of protecting the Higgs boson mass from quadratically divergent quantum corrections. I present new non conventional ideas about the origin of mass scales in nature and in particular of the electro-weak scale.

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