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The Higgs instability during inflation

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The central measured Standard Model parameters indicate that, at large scale, the Higgs potential develops a second minimum at energy lower than the current Electroweak vacuum.

This has important consequence for cosmology. For instance, the dynamics of the Higgs during inflation could have triggered the decay of the EW vacuum with fatal consequences for our Universe. By requiring that this did not happen we can relate (and constraint) the Standard Model parameter with the energy scale of inflation.

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