

Yushi Mura "New theoretical constraints on the non-decoupling physics with the mass dependent beta function"

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Electroweak baryogenesis is realized by the first order electroweak phase transition. In the extended Higgs models, it is caused by the relatively large scalar coupling constants. In such case, it is known that the Landau pole appears at a low scale, which is not compatible to the high energy experiments. By using the mass dependent beta function, in which threshold effects of the mass are naturally included, we will show that the scale of the Landau pole is much higher than that obtained by the previous studies.

Session Classification: Short talks