

Contribution ID: 27 Type: not specified

Baryogenesis in the 2HDM+a

Thursday, 19 December 2024 13:30 (30 minutes)

There are a multitude of Standard Model extensions that can accommodate a first-order electroweak phase transition in the Early Universe, with the aim of providing an explanation for the observed baryon asymmetry. In this talk, I will introduce a particular extension: a Two Higgs Doublet Model plus a SM singlet pseudoscalar (2HDM+a). I will discuss how one starts from this model and ends with a viable parameter space that produces the observed baryon asymmetry.

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Session Classification: Baryogenesis and Leptogenesis