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Baryogenesis in the 2HDM+a

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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.

Primary author: GENT, Tom (University of Sussex)

Presenter: GENT, Tom (University of Sussex)

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