

The Electroweak Phase Transition Near the Standard Model.

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A strong Electroweak Phase Transition may be responsible for the observed baryon asymmetry of the Universe and may generate a detectable stochastic background of Gravitational Waves. Sadly, in the Minimal Standard Model, the transition is a weak cross-over. I will first give a short introduction to how one computes the properties of the transition perturbatively and non-perturbatively. I will then proceed to present a snapshot of ongoing efforts to pin down the transition in minimal extensions of the Standard Model, imposing LHC constraints on parameter scans.

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