

Gravitational Wave Probes of Physics Beyond Standard Model 2

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The electroweak phase transition: is effective field theory just a toy?

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Content :

When the universe was a fraction of nano-second old the electroweak phase transition (EWPT) took place in which elementary particles obtained masses via the Higgs mechanism. In extensions of the Standard Model this transition can be first order with possibly observable consequences. It would be great to have a simple and model-independent description of this process in terms of the Standard Model effective field theory (SM-EFT). In this talk I will review the the effective field theory approach, followed by a discussion of the applicability and usefulness of the SM-EFT framework for the EWPT.

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