

Probing Symmetry Breaking in the Early Universe via Gravitational Waves

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The focus of this talk will be the mechanism of mass generation in the early Universe. If it is associated with symmetry breaking proceeding via a first-order phase transition, it may leave an imprint in the stochastic gravitational wave background. Observing such a signal would allow us to probe very early times in the evolution of the Universe. In this talk, I will review the mechanisms of generating gravitational waves during a phase transition and show results for a BSM model for which the predicted signal is well observable.