Contribution ID: 9

Gravitational Waves from a First-Order Phase Transition of the Inflaton

We explore the production of gravitational waves resulting from a first-order phase transition (FOPT) in a non-minimally coupled "Dark Higgs Inflation" model. Utilizing a single scalar field both as the inflaton and as the Dark Higgs breaking the gauge symmetry in the dark sector, we demonstrate the feasibility of a unified framework for inflation and observable gravitational waves from a FOPT.

Primary author: KERSTEN, Jörn (Yonsei University)