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Primordial gravitational waves and primordial black holes

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Primordial gravitational waves (GWs) can be generated during different eras of early cosmic evolution, including inflation, cosmic phase transition, reheating/preheating, and so on. In this talk, I will first introduce the amplified GWs through parametric resonance during inflation in the Cherns-Simons gravity. Then, I will introduce the scalar induced GWs accompanied with the production of primordial black holes. Two different theoretical models how to enhance the curvature perturbations will be discussed.

Author: PUXUN , Wu

Presenter: PUXUN , Wu

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