

Quantum Tachyonic Preheating Revisited.

Wednesday 12 March 2025 14:00 (45 minutes)

Tachyonic preheating is one of a few compelling mechanisms for transitioning from an inflationary, empty Universe to a hot radiation dominated Universe. The 2PI formalism allows for a correct quantum treatment of particle production and thermalisation, and is well suited for numerical implementation on the lattice. I will present an investigation of tachyonic preheating, aimed at updating similar simulations performed two decades(!) ago, and exploring the limitations of the classical-statistical approximation in this context.

Presenter: TRANBERG, Anders (University of Stavanger)

Session Classification: Invited talk