



Contribution ID: 10

Type: not specified

## Lattice Simulations of Gravitational Reheating

*Tuesday 6 February 2024 14:50 (45 minutes)*

I will present two models for viable gravitational reheating involving a scalar field directly coupled to the Ricci curvature scalar. Crucially to these models are periods of the early Universe where the equation-of-state is stiffer than radiation ( $w < 1/3$ ) resulting in tachyonic growth of the scalar fields energy density. In this talk I will detail the phenomenology and delve into scenarios where lattice simulations are required to make concrete predictions, highlighting interesting avenues for future work.

**Presenter:** OPFERKUCH, Toby

**Session Classification:** Simulations