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A dynamical inflaton coupled to strongly interacting matter

Monday 5 February 2024 10:05 (45 minutes)

In talk I will show how to self-consistently couple the Einstein-inflaton equations to a strongly coupled quantum field theory (QFT) as described by holography. We show that this can lead to an inflating universe, a reheating phase and finally a universe dominated by the QFT in thermal equilibrium. Special attention will be given to technical details that could be of relevance for modelling of more general strongly coupled systems more akin to our own universe.

Presenter: Dr VAN DER SCHEE, Wilke (CERN)

Session Classification: Theory of Particle Production