Contribution ID: **92** Type: **not specified**

New Horizons in the Holographic Phase Transition

Monday 8 May 2023 17:30 (15 minutes)

We consider dynamical fully 5-Dimensional cosmological solutions of the holographic dilaton to study an out-of-equilibrium alternative to the thermal Randall-Sundrum conformal phase transition. It is well known that this transition is typically strongly first order, with the requirement of a perturbative 5D gravity theory obstructing completion of the transition. We comment on a class of initial conditions that generically leads to completion of the phase transition with increased perturbative control of the 5D theory associated with higher likelihood of success.

Authors: SAMBASIVAM, Bharath; ERÖNCEL, Cem (Syracuse University); RIGO, Gabriele (IPhT, Saclay); HUBISZ, Jay (Syracuse University); LEE, Seung J. (Korea University)

Presenter: SAMBASIVAM, Bharath

Session Classification: BSM IV

Track Classification: BSM