

Phenomenology 2023 Symposium



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New Horizons in the Holographic Phase Transition

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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.

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