

# DISCRETE 2014: Fourth Symposium on Prospects in the Physics of Discrete Symmetries



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## Higgs-Dilaton Cosmology: Universality vs. Criticality

*Thursday, 4 December 2014 17:35 (30 minutes)*

The Higgs-Dilaton model is able to produce an early inflationary expansion followed by a dark energy dominated era responsible for the late time acceleration of the Universe. At tree-level, the model predicts a small tensor-to-scalar ratio, a tiny negative running of the spectral tilt and a non-trivial consistency relation between the spectral tilt of scalar perturbations and the dark energy equation of state. We will reconsider the validity of these predictions in the presence of radiative corrections and their connection to low energy Higgs and top masses.

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**Session Classification:** Parallel 9: Higgs Physics @ LHC, discrete symmetries @LHC, new facilities