

Harmonic Hybrid Inflation

Thursday 24 September 2020 16:30 (20 minutes)

I will present a mechanism for realising hybrid inflation using two axion fields with a purely non-perturbatively generated scalar potential. I will show that such model generates observationally viable slow-roll inflation for a wide range of initial conditions while accommodating certain Swampland conjectures. I will focus mainly on two possible avenues to embed harmonic hybrid inflation in type IIB string theory, namely with axions from 4-forms in an LVS setup and with axions from 2-forms in the presence of magnetised stacks of branes.

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Session Classification: Strings & Mathematical physics session on Zoom and in Main Auditorium.

Track Classification: Strings & Mathematical Physics