

# SEMPARIS – Séminaires en région parisienne

<http://string.lpthe.jussieu.fr/semparis/>

## LPENS Particle physics phenomenology and cosmology

**Vendredi 7 Juin 2024, 14 :00**

LPENS, E239 - LPENS - 24 rue Lhomond 75005 PARIS

Domaines : hep-ph

Titre : *Inflation models with the Higgs and baryogenesis*

Orateur : **Yann Cado** ( **LPTHE, Sorbonne** )

Résumé : *Although the  $\Lambda$ CDM model is the most complete model of modern cosmology to date, it still lacks a compelling description of the baryonic matter origin and of the cosmological inflationary period. In this talk, I will present the implications of the inflaton coupling to the Chern-Simons density in various scenarios, focusing on the role played by the Higgs sector in the baryogenesis and preheating capabilities.*

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