

# SEMPARIS – Séminaires en région parisienne

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

## Séminaire de matrices, cordes et géométries aléatoires

**Mercredi 24 Janvier 2018, 14 :15**  
IPHT, Salle Claude Itzykson, Bât. 774  
Domaines : hep-th

Titre : *Towards an explicit model of large field inflation*

Orateur : **Juan Diaz Dorronsoro ( ITF - KU Leuven )**

Résumé : *Antibranes are the usual suspects of de Sitter model building in string theory. They have been extensively used in flux compactifications to uplift anti de Sitter vacua to metastable de Sitter minima. In this talk I will start by briefly reviewing some recent results on the (non-)existence of anti-brane solutions as the ones used in model building. Afterwards I will present a model for inflation based on a series of antibrane annihilation processes, which provides a concrete string theory realization of the unwinding inflation mechanism. I will argue that the model succeeds in providing a large field excursion for the inflaton while satisfying the constraints required to maintain a consistent effective field theory.*

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