

# SEMPARIS – Séminaires en région parisienne

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

## Séminaire de matrices, cordes et géométries aléatoires

**Mercredi 16 Mai 2018, 14 :30**  
IPHT, Salle Claude Itzykson, Bât. 774  
Domaines : hep-th

Titre : *A new twist on toroidal string compactifications*

Orateur : **Mariana Graña ( IPhT )**

Résumé : *We will discuss toroidal compactifications of the bosonic and heterotic strings, focusing on the phenomenon of symmetry enhancement arising at self-dual points in moduli space.*

*I will present the effective action describing the low energy effective theory close to the points of enhancement, obtained from string theory scattering amplitudes, show how symmetry breaking arises naturally as a Higgs mechanism, and show that this action can be obtained from a suitable (twisted) Sherk-Schwarz reduction of double field theory.*

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