

# SEMPARIS – Séminaires en région parisienne

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## Séminaire de matrices, cordes et géométries aléatoires

**Mercredi 20 Novembre 2019, 14 :15**

IPHT, Salle Claude Itzykson, Bât. 774

Domaines : hep-th

Titre : *T-branes and supersymmetry enhancement*

Orateur : **Simone Giacomelli ( Oxford )**

Résumé : *T-branes are exotic bound states of D-branes, characterized by mutually non-commuting vacuum expectation values for the worldvolume scalars. The M/F-theory geometry lifting D6/D7-brane configurations is blind to the T-brane data. In this talk I will first explain how we can make this data manifest, by probing the geometry with an M2-brane and then I will consider an application of T-branes in the context of F-theory, showing that we can use them to understand the phenomenon of supersymmetry enhancement along the RG flow of four dimensional field theories, recently observed by Maruyoshi and Song.*

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