

# SEMPARIS – Séminaires en région parisienne

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

## Séminaire commun LPTENS/LPTHE

**Vendredi 17 Novembre 2017, 11 :00**

LPTENS, LPTENS library

Domaines : hep-th

Titre : *Supersymmetric field theories on curved spaces from string theory*

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Résumé : *Supersymmetric field theories can be defined on curved spaces by coupling them to an off-shell supergravity background. Recently, it was shown how the requirements for such  $d=4$  field theories can be obtained from string theory by examining supersymmetric D3-branes without worldvolume flux. I will discuss how to fully embed  $N=1$  backgrounds in string theory and give examples. I will also discuss how this picture generalizes to the case of D3-branes with worldvolume flux and how this is related to field theories with non-linear supersymmetry on curved spaces.*

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