

# SEMPARIS – Séminaires en région parisienne

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

## Séminaire commun LPTENS/LPTHE

**Mardi 24 Octobre 2017, 11 :30**

LPTENS, LPTENS library

Domaines : hep-th

Titre : *Accessing the CFT spectrum at large charge*

Orateur : **Orestis Loukas ( University of Bern )**

Résumé : *Studying strongly coupled CFTs with some global symmetry in sectors where the associated global charge is large, often leads to an effective action which is weakly coupled. In this regime, the computation of anomalous dimensions and fusion coefficients becomes perturbatively meaningful. I review our recent progress [arXiv :1610.04495, 1612.08985, 1707.00710] in understanding the large-charge sectors of classes of scalar CFTs in three dimensions, both at the level of the linear as well as non-linear sigma model. Additionally, I comment on the verification of the analytic prediction via lattice simulations.*

---