**Laboratoire de Physique Théorique et Hautes Energies**

Unité Mixte de Recherche (UMR 7589) de Sorbonne Université et du CNRS

**SEMINAIRE du LPTHE**

***Vendredi 9 Novembre 2018, 11:00***

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***OIST Okinawa***

## The hierarchy of the OPE coefficients and the low-lying operators in CFT

*The continuous families of CFT with varying central charge has gained importance after the revival of the conformal bootstrap in d>2. Unlike the 2d rational CFTs, the 4-point function of the fundamental fields has infinitely many intermediate channels, which shows a tree-like pattern of the unitarity violation. The O(n) model for |n|<2 offers one nice example, where such properties are studied in detail. We discuss the basic examples in arXiv :1803.06938, where the analytic properties and exponential decays of the OPE coefficients are related to the symmetry of the hyperbolic geometry. We also use a special polynomial of n arising from the multiplicities in the torus partition function and see how the low-lying dimensions are constrained from the modular invariance.*

**Bibliothèque du LPTHE, tour 13/14, 4$^{ème}$ étage**

*N.B. La liste de tous les séminaires en région parisienne est disponible sur*
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