

# SEMPARIS – Séminaires en région parisienne

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

## Seed Seminar of Mathematics and Physics

**Mercredi 4 Décembre 2024, 10 :30**

IHES, Amphithéâtre Léon Motchane

Domaines : math-ph

Titre : *Partial Wave Decomposition in Thermal Conformal Field Theories*

Orateur : **Francesco Russo** ( **University of Pisa & INFN** )

Résumé : *The conformal block expansion of correlation functions is a fundamental tool in the bootstrap program. Block computation can be related to a specific class of harmonic functions on the conformal group. We generalise this concept to the case of thermal conformal field theories and compute one-point blocks for spinning representations in three dimensions. Specifically, we derive a universal Casimir equation and solve it using recursion relations. Finally, we use the blocks in several examples to explore some features of OPE coefficients.*

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