

# SEMPARIS – Séminaires en région parisienne

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## Séminaire de physique mathématique

**Lundi 15 Janvier 2018, 11 :00**

IPHT, Salle Claude Itzykson, Bât. 774

Domaines : math-ph

Titre : *Rigid Fuchsian systems in conformal algebras*

Orateur : **Raoul Santachiara ( LPTMS Orsay )**

Résumé : *An old question is whether the monodromy group of a Fuchsian system is determined by or determines uniquely the behavior of its solutions near the singularities. The answer is positive for a class of equations that are called rigid systems. We have recently discovered that these rigid systems describe a class of fundamental equations that lie in the heart of the Virasoro and  $W$  theories. We used a procedure developed in the last decades for the solutions of rigid systems to provide new results in CFTs.*

*In this talk, I will introduce the Kats theory for rigid systems and I will explain how these systems are related to the conformal algebras mentioned above.*

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