

SEMPARIS – Séminaires en région parisienne

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

TBA

Mercredi 30 Janvier 2019, 16 :30

IHES, Amphithéâtre Léon Motchane(Séminaire Géométrie et groupes discrets)

Domaines : math

Titre : *Non-differentiability of limit sets in anti-de Sitter geometry*

Orateur : **Daniel Monclair** (Université Paris-Sud)

Résumé : *The study of Anosov representations deals with discrete subgroups of Lie groups that have a nice limit set, meaning that they share the dynamical properties of limit sets in hyperbolic geometry. However, the geometry of these limit sets is different : while limit sets in hyperbolic geometry have a fractal nature (e.g. non-integer Hausdorff dimension), some Anosov groups have a more regular limit set (e.g. C^1 for Hitchin representations). My talk will focus on quasi-Fuchsian subgroups of $SO(n,2)$, and show that the situation is intermediate : their limit sets are Lipschitz submanifolds, but not C^1 . I will discuss the two main steps of the proof. The first one classifies the possible Zariski closures of such groups. The second uses anti-de Sitter geometry in order to determine the limit cone of such a group with a C^1 limit set. Based on joint work with Olivier Glorieux.*
