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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 (Unniversité 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 limits 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. C1 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 C1. 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 C1 limit set. Based on joint work with Olivier Glorieux.*