

GEOMETRY AND DYNAMICS OF CONSTANT CURVATURES SPACES

Organizers: Thierry Barbot (Avignon University), Fanny Kassel (CNRS - IHES), André de Carvalho (University of São Paulo)

This session will be devoted to the theme of constant curvature geometry, both in the Riemannian and in the Lorentzian contexts, with an emphasis in low dimensions (2, 3 or 4). This includes the traditional notion of Fuchsian and Kleinian groups and their Lorentzian analogues. These geometric structures have a notable connection with the theory of representations, particularly Anosov representations, which will also be covered.

This parallel session is a natural outgrowth of the FAPESP project [Dynamics and geometry in low dimensions](#), coordinated by one of the organizers, and the MATH-AMSud project [GDAR](#), held by one of the others, and will benefit from these experiences. One important purpose of this proposal is to contribute and to reinforce the French-Brazilian collaboration in these subjects, with a special focus on young researchers.

Speakers:

French:

Thierry Barbot (LMA, Avignon University)

Leon Carvajales (Sorbonne Université - Universidad de la Republica)

Martin Mion-Mouton (IRMA, Strasbourg University)

Brazil:

Misha Belolipetsky (IMPA)

Marcel Vinhas Bertolini (UFPa)

Lucas Kaufmann (National University of Singapore)

Uirá Matos (USP)