

## Geometric Structures Associated to Anosov Representations

*mardi 20 juin 2023 15:00 (1 heure)*

Anosov representations can be considered a generalization of convex-cocompact representations to groups of higher-rank. In this talk, we are considering connected components of Anosov representations from the fundamental group of a closed hyperbolic manifold  $N$ , and which contains Fuchsian representations, and their associated domains of discontinuity. We will prove that the quotient of these domains of discontinuity is always smooth fiber bundles over  $N$ . Determining the topology of the fiber is hard in general, but we are able to describe it for representations in  $Sp(4, \mathbb{C})$ , and for the domain of discontinuity in the space of complex Lagrangians in  $\mathbb{C}^4$  by using the classification of smooth 4-manifolds. This is joint work with Daniele Alessandrini, Nicolas Tholozan, and Anna Wienhard.

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