ID de Contribution: **19** Type: **Non spécifié**

On the Dimension of Limit Sets on the Real Projective Plane via Stationary Measures

vendredi 23 juin 2023 09:15 (1 heure)

I will present a dimension jump result of limit sets on RP^2 for representations of surface groups in SL(3,R). For Anosov representations, we prove the equality between the Hausdorff dimension and the affinity dimension. In particular, it reveals a dimension jump under perturbation. The core of the proof is to study the stationary measures of finitely supported random walks on SL(3,R). We show the Hausdorff dimensions of the measures are equal to their Lyapunov dimensions under certain assumptions. This is based on ongoing joint work with Jialun Li and Disheng Xu.

Orateur: Prof. PAN, Wenyu (University of Toronto)