ID de Contribution: **5**   Type: **Non spécifié**

Continuity of a measurable conjugacy between linear cocycles

mardi 11 juin 2024 09:30 (1 heure)

We consider Holder continuous GL(d,R)-valued cocycles over hyperbolic and partially hyperbolic diffeomorphisms. We discuss results on continuity of a measurable conjugacy between two cocycles. We focus on perturbations of constant cocycles and on cocycles with one Lyapunov exponent. We also mention related results on continuity of measurable invariant geometric structures. As an application, we bootstrap regularity of a conjugacy between an Anosov toral automorphism and its perturbation.

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