

Continuity of a measurable conjugacy between linear cocycles

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We consider Hölder continuous $GL(d, \mathbb{R})$ -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.

Orateur: SADOVSKAYA, Victoria (PennState University)