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Victoria Sadovskaya* (sadovska@jaguar1.usouthal.edu). *Cohomology of $GL(2, \mathbb{R})$ -valued cocycles over hyperbolic systems.*

We discuss cohomology of group-valued cocycles over Anosov diffeomorphisms. Central questions in this area are whether a measurable conjugacy between two cocycles is continuous, and whether conjugacy of the periodic data implies conjugacy of the cocycles. We concentrate on $GL(2, \mathbb{R})$ -valued cocycles and address these questions as well as the problem of classification up to a continuous conjugacy. (Received September 18, 2011)