Title: Discontinuity example for the Lyapunov exponents on the boundary of the uniformly hyperbolic set

Abstract: We present an example of a discontinuity point for the Lyapunov exponents when viewed as a function of the cocycle in a topology finer than the C^0-topology. The linear cocycle taking values in $\mathrm{SL}(2,\mathbb{R})$ is locally constant, defined over a Bernoulli shift and it lies on the boundary of the uniformly hyperbolic set. In particular, we show that it can be approximated, in the $C_{\delta-\log}$-topology, by cocycles whose Lyapunov exponents vanish.