

1144-37-155

Cecilia González-Tokman and **Anthony Quas*** (aquas@uvic.ca). *Lyapunov spectrum collapse for Perron-Frobenius cocycles*. Preliminary report.

We consider cocycles of Ruelle-Perron-Frobenius operators driven by an ergodic base dynamical system. We are concerned with the stability of the Lyapunov exponents of the cocycle with respect to perturbations of the cocycle. We exhibit some natural perturbations of the Perron-Frobenius operators of a family of random analytic expanding mappings of the unit circle that exhibit a collapse of the Lyapunov spectrum. (Received August 22, 2018)