

M. Nicol, "*Extremes for energy-like observables on hyperbolic systems*"

Consider an ergodic measure preserving dynamical system (T, X, μ) , and a observable $\phi : X \rightarrow \mathbb{R}$. We establish limit laws for the maximum process $M_n = \max_{k \leq n} \phi(T^k(x))$ in the case where ϕ is maximized on a curve or invariant subspace (rather than at a unique point in phase space) for certain classes of hyperbolic dynamical systems. Joint work with Meagan Carney (Max Planck Institute for Complex Systems Dresden) and Mark Holland (University of Exeter).