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Computation of the Frobenius - Perron operator of dynamical systems

Densities of invariant measures for dynamical systems describe the long-time (statistical) behavior of the systems. In this talk, we present the Frobenius-Perron operator of dynamical systems as one of the main tools for the existence of invariant densities for dynamical systems. For random dynamical systems, we present some computational techniques of the Frobenius-Perron operator.