CAFE-Dyn
Workshop in Complexity, Aperiodicity, Fractal and Ergodicity in Dynamics
February 10, 11 and 12, 2026 *IMECC - UNICAMP - Campinas (Brazil)*

Maximizing Measures for Generic 2×2 Matrix Cocycles

Philippe Thieullen
Univ. de Bordeaux

The joint spectral radius conjecture is related to the problem of determining the set of orbits of a dynamical system that maximize the first topological Lyapunov exponent of a matrix cocycle. The Mather set is the union of the supports of all maximizing invariant measures, measures that maximize the metric Lyapunov exponent. We consider here a subshift of finite type and a Lipschitz 2×2 matrix cocycle that admits an extremal norm. We show that for any Lipschitz neighborhoods of the cocycle, there exists a cocycle with a Mather set reduced to a periodic orbit.

SLIDES

Thursday - February 12, 2026 - 10:00 - 11:00
253 - Thesis Defense Room - 2nd Floor IMECC