



Department of Mathematics
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Room 220, Lady Shaw Building, The Chinese University of Hong Kong, Shatin, N.T., Hong Kong

Analysis Seminar talk

Maximal transverse measures of expanding foliations

Professor Jiagang Yang
Universidade Federal Fluminense, Brazil

Abstract:

For an unstable foliation of a diffeomorphism, we use a natural dynamical averaging to construct transverse measures, which we call maximal, describing the statistics of how the iterates of a given leaf intersect the cross-sections to the foliation. For a suitable class of diffeomorphisms, we prove that this averaging converges, even exponentially fast, and the limit measures have finite ergodic decompositions.

This is a joint work with R. Ures, M. Viana, F. Yang

Date: January 29, 2024 (Monday)
Venue: Room 219, Lady Shaw Building,
The Chinese University of Hong Kong, Shatin
Time: 2:30pm – 3:30pm (Hong King Time)

All are Welcome