

Dynamics beyond uniform hyperbolicity

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Abstract:

How do typical dynamical phenomena evolve in time? What is the asymptotic behavior of the phenomenon, for typical initial states? Is this behavior stable, under small changes or fluctuations of the evolution law? These fundamental questions have been driving the extraordinary progress Dynamics experienced in the last half century and, with renewed impetus, in the last couple of decades or so. During this time much has changed in this field, with new ideas brought in, and new focuses arising. I'll try to illustrate this evolution through one line of results.