



Institut für Mathematik

Seminar zur Stochastik

Donnerstag, 1. Juni 2023
15 Uhr s.t.
SR 025 August-Bebel-Str. 4

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(derzeit Leipzig)

“Attractors via rough paths: theory and application”

Abstract: In this talk I will report recent results on attractors for rough differential equations, using languages of rough path theory and random dynamical systems. The main results are the existence and upper semi-continuity of the global pullback attractor for dissipative systems perturbed by bounded/linear noises. Similar results hold for numerical attractors for the Euler scheme under an additional assumption on the linear growth of the drift term, in this case one should use a discrete version of rough path theory together with the discrete sewing lemma and stopping time techniques.

Some examples in application are also discussed.

Alle Interessierte sind herzlich eingeladen