



Oberseminar Stochastik

Am **Dienstag, 25. November 2025**, wird

Louis Chataignier (Université Toulouse III)

einen Vortrag halten mit dem Thema:

„Upper moderate deviation probabilities for the maximum of a branching random walk“

Abstract:

In 2013, Elie Aïdékon obtained the convergence in distribution, as time n goes to infinity, of the maximum of a supercritical branching random walk, once recentered by an explicit function $m(n)$. More recently, Lianghui Luo gave an asymptotic equivalent for the upper large deviation probabilities of this maximum. In this talk, I will present a joint work with Lianghui Luo in which we study an intermediate regime. We obtain an asymptotic equivalent for the probability that the maximum arrives at distance $x(n)$ above $m(n)$, where $1 \ll x(n) = O(\sqrt{n})$.

Zeit: Dienstag, 25. November 2025, 14 Uhr c.t.

Ort: Raum 05-136, Institut für Mathematik, Staudingerweg 9, 55128 Mainz

Alle Interessierten sind herzlich eingeladen!

gez. Lisa Hartung