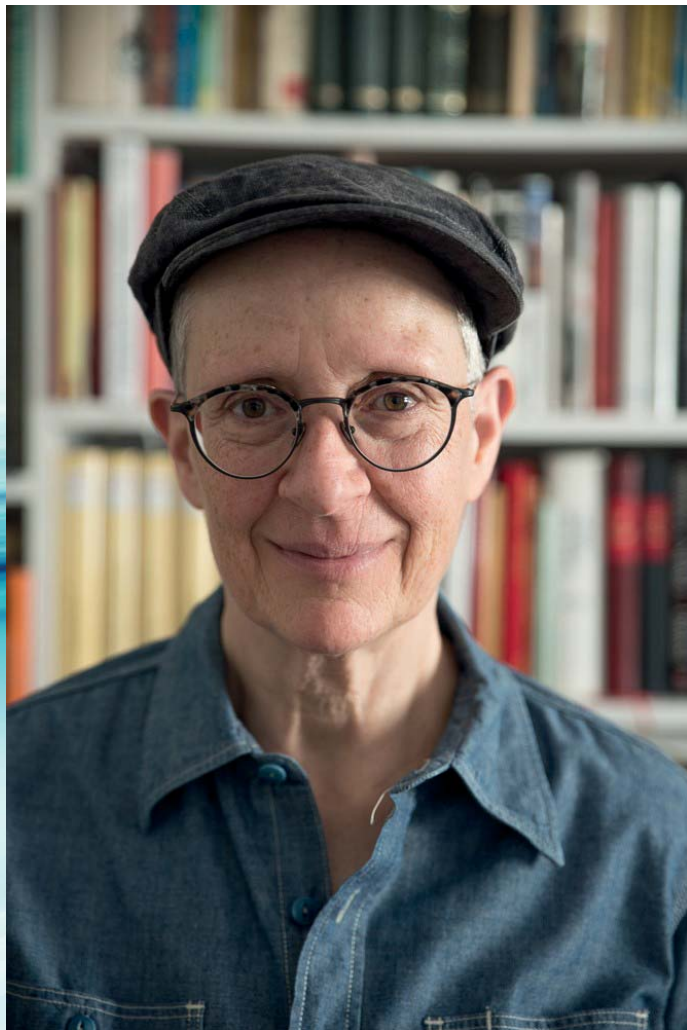


# Kolloquium des Departments Mathematik/Informatik

am 19. Juni 2019, 16:30 Uhr im Hörsaal des Departments Mathematik/Informatik

## Prof. N. Gantert (TU München)



*Vortragstitel:*

### **Decisiveness versus flexibility: who wins?**

*Zusammenfassung:*

We discuss this question on the example of biased random walks in random environments.

In particular, we consider biased random walk on percolation clusters or among random conductances. They serve as a model for transport in an inhomogeneous medium. We investigate the speed of the walk as a function of the bias, and discuss its monotonicity. We state the Einstein relation which is proved in the random conductance case. As time permits, we also mention recent results about Mott walks.

No prior knowledge is assumed.

The results we present come from joint work(s) with Noam Berger, Alessandra Faggionato, Xiaoqin Guo, Matthias Meiners, Sebastian Müller, Jan Nagel and Michele Salvi.

Um 16 Uhr gibt es Tee in der Bibliothek der Mathematik, Weyertal 86 – 90, 50931 Köln, Erdgeschoss Raum 0.18 – 0.20. Alle Interessent\_innen sind herzlich eingeladen.