



## Einladung zum Oberseminar Stochastik

ONLINE Vortrag über Zoom - (Zugangsdaten werden noch mitgeteilt)

am Donnerstag, 04.02.2021 ab **17:45 Uhr**

**Prof. Dr. Nadia Sidorova**  
(University College London )

zum Thema

### **Localisation and delocalisation in the parabolic Anderson model**

The parabolic Anderson problem is the Cauchy problem for the heat equation on the integer lattice with random potential. It describes the mean-field behaviour of a continuous-time branching random walk. It is well-known that, unlike the standard heat equation, the solution of the parabolic Anderson model exhibits strong localisation. In particular, for a wide class of iid potentials it is localised at just one point. However, in a partially symmetric parabolic Anderson model, the one-point localisation breaks down for heavy-tailed potentials and remains unchanged for light-tailed potentials, exhibiting a range of phase transitions. This is a joint work with Stephen Muirhead and Richard Pymar.

Alle Interessenten sind herzlich eingeladen.

Die Dozenten der Stochastik