

## Oberseminar Stochastik

Am **Dienstag, 24. Mai 2022**, wird

Herr **Maximilian Fels (Technion Haifa)**

einen Vortrag halten mit dem Titel:

### **"Extreme level sets of the 2D discrete Gaussian free field"**

Abstract:

The extremal process of the 2D discrete Gaussian free field is known to be Cluster Cox process. We study the finer statistics of the so-called extreme level sets, i.e. the vertices that are within a finite

$t > 0$  distance to the global maximum of the 2D DGFF on a box of side length  $2^n$  with Dirichlet boundary conditions and as first  $n$  and then  $t$  are taken to infinity. We address questions concerning the growth rate of the size of such level sets, the typical height of the extreme local maxima carrying the clusters contributing to the extreme level sets, as well as the typical shape of contributing clusters.

Zeit: Dienstag, 24. Mai 2022, 14 Uhr c.t.

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

Alle Interessierten sind herzlich eingeladen!

gez. Lisa Hartung