Fachbereich 08 – Physik, Mathematik und Informatik
Institut für Mathematik
M. Birkner / L. Hartung / R. Höpfner / A. Klenke

JOHANNES GUTENBERG
UNIVERSITÄT MAINZ

JG|U

Oberseminar Stochastik

Am **Dienstag, 11. Juni 2019**, wird

Frau Iulia Dahmer (Johannes Gutenberg-Universität Mainz)

einen Vortrag halten mit dem Titel:

"Fluctuations of the lengths of Beta-coalescents"

Abstract:

We consider Beta(2−α,α)−n-coalescents with parameter range $1 \le \alpha < 2$. The (total, external and internal) lengths of the coalescent tree - the sums of the lengths of its branches - play a central role in the statistical analysis of the number of mutations that affect the individuals in the sample for which the genealogy is described by the coalescent. We review results on the fluctuations of the total length and total external branch length in a Beta(2−α,α)-coalescent as the sample size n tends to infinity and give insight into the joint asymptotic behaviour of the fluctuations of the internal lengths of orders 2,3,...,r in such coalescent trees. This is based on work in progress joint with Matthias Birkner, Christina Diehl and Götz Kersting.

Zeit: Dienstag, 11. Juni 2019, 14 Uhr c.t.

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

Alle Interessierten sind herzlich eingeladen!

gez. Matthias Birkner