RTG 2131-Conference, Program

RTG 2131, High dimensional phenomena in probability - Fluctuations and discontinuity

24 – 28 September 2018

Location: Ruhr-University Bochum, HZO 80

The UA Ruhr is an alliance between Ruhr University Bochum, TU Dortmund and the University of Duisburg-Essen, the three strongest universities in Germany's thriving Ruhr area.

Monday, 24 September

09:00
Registration and Refreshments

09:30
Opening

09:45
Aernout van Enter, Groningen
One-sided versus two-sided points of view

10:30
Coffee Break

11:00
Masha Gordina, Connecticut
Gradient bounds for hypoelliptic diffussions

11:45
Sebastian Mentemeier, Kassel
Limit theorems for recursive cell-splitting schemes

12:30
Lunch (self catered)

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14:00
Florence Merlevede, Marne-la-Vallée
Rates in almost sure invariance principle for slowly mixing dynamical systems

14:45
Julian Grote, Bochum
Threshold phenomena and limit theorems for random polytopes in high dimensions

15:30
Coffee Break

16:00
Maite Wilke-Berenguer, Bochum
The Wright-Fisher model with selection in a random environment

17:00
Discussions

Tuesday, 25 September

09:45
Friedrich Götze, Bielefeld
Limit Theorems and Expansions in Information Distances

10:30
Coffee Break

11:00
Richard Kraaij, Delft
Fluctuations for a dynamic Curie-Weiss model of self-organized criticality

11:45
Fabrice Gamboa, Toulouse
Around large deviations and sum rules

12:30
Lunch (self catered)

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14:00
Sara Mazzonetto, Duisburg-Essen
A new perturbation theory and its applications to numerical approximation of S(P)DEs

14:45
Joscha Prochno, Graz
The asymptotic volume ratio of Schatten p-classes

15:30
Coffee Break

16:00
Dominik Tomecki, Bochum
Random Moment Problems Under Constraints

17:00
Discussions

Wednesday, 26 September

09:45
Giovanni Peccati, Luxembourg
Nodal sets of random waves: second order results and phase transitions

10:30
Coffee Break

11:00
Alexander Drewitz, Cologne
The maximum particle of branching random walk in spatially random branching environment

11:45
Frank den Hollander, Leiden
Spectra of Adjacency and Laplacian Matrices of inhomogeneous Erdös-Rényi Graphs

12:30
Lunch (self catered)

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13:30
Excursion by Bus to Zeche Zollverein / Mine Zollverein in Essen
UNESCO world cultural heritage site

18:30
Conference Dinner, Ruhr-University Bochum, Beckmanns Hof

Thursday, 27 September

09:45
Adrian Röllin, Singapore
Stein's method, universality and high-dimensional approximation

10:30
Coffee Break

11:00
Rafał Latała, Warsaw
Hanson-Wright inequality in Banach Spaces

11:45
Joseph Lehec, Paris-Dauphine
On the stability of the logarithmic Sobolev inequality

12:30
Lunch (self catered)

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14:00
Martin Venker, Bochum
Time to universality for Dyson's Brownian motion started at a point of low density

14:45
Andre Pessik, Dortmund
Limit Theorems for Bipower / Multipower Variations of Lévy Driven Processes

15:30
Coffee Break

16:00
Yacine Barhoumi-Andréani, Zurich, Bochum
The characteristic polynomial of a random unitary matrix, 20 years of study

17:00
Discussions

Friday, 28 September

09:00
Wolfgang König, Berlin
A large-deviations approach to the multiplicative coalescent

9:45
Mattias Reitzner, Osnabrück
Limit Results for the Gilbert Hyper-Graph

10:30
Coffee Break

11:00
David Dereudre, Lille
Canonical DLR equations and number-rigidity for the Sine-beta process

11:45
Michel Ledoux, Toulouse
Stein's method for normal approximation of linear statistics of beta-ensembles

12:30
Lunch (self catered)

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