Young Women in Discrete Mathematics

Friday, June 7

12.00 - 12.30 **Welcome reception**

12.30 - 12.45 **Welcome**

12.45 - 13.45 **Angelika Steger**
Boltzmann samplers and properties of combinatorial structures

13.45 - 14.15 **Coffee break**

14:15 - 15:45 **Short Presentations - Session I**

Sonja Wittke
The Discrete Time-Cost Tradeoff Problem in Chip Design

Christiane Engels
Macro Placement

Nieke Aerts
Straight Line Triangle and L-Contact Representations

Ekaterina Alekseeva
Leader-Follower Facility Location Problems

Sylwia Antoniuk
On some properties of random triangular groups

Linda Beukemann
Regular graphs constructed from the classical generalized quadrangle Q(4,q)

Elisabetta Candellero
Clustering in random geometric graphs on hyperbolic spaces

Sara Chenche
Two contributions to the set covering problem

Julia Ehrenmüller
On the Gallai property of series parallel graphs

Anna Gundert
Taking Graph Theory to Higher Dimensions

Kathrin Hanauer
Minimum Feedback Arc Sets in Regular Graphs

Audrey Herinckx
On the Erdős-Pósa property and linklessly embeddable graphs

Anne Hillebrand
A graph-theoretic approach to the reverse radar problem

Eugenia Holm
Biclique Cover Problem

Maria Infusino
On the discrepancy of some sequences of partitions

Andrea Jiménez
Directed cycle double covers: hexagon graphs

Katharina Jochemko
Order-theoretic generalizations of Polya's enumeration theorem and applications

Relinde Jurrius
Codes, arrangements, matroids, and their polynomial links

15.45 - 16.15 Coffee break

16:15 - 17:50 Short Presentations - Session II

Younjin Kim
Cycle-saturated graphs with minimum number of edges

Tereza Klimošová
Hereditary properties of permutations are strongly testable

Anja Komatar
Second Neighbourhood Conjecture

Sara Kropf
Analysis of the binary asymmetric joint sparse form

Martina Kubitzke
On Ehrhart theory for lattice polytopes and subdivision operations on simplicial complexes

Silvia Messuti
Minimum degree conditions for homomorphisms into odd cycles

Alice Paul
Detecting Covert Members of Terrorist Networks

Olga Podolskaya
On Circuit Complexity Lower Bounds in Antichain Basis

Monika Polak
On the new family of graphs of large girth and corresponding LPPC codes

Viviane Pons
Orders on permutations

Fahimeh Ramezani
ε-approximate saddle point

Katarzyna Rybarczyk
The chromatic number of random intersection graphs

Fiona Skerman
Row and column sums of of random 0-1 matrices

Johanna Sokoli
On the Complexity of Satisfiability over Vector Product Terms

Liana Yepremyan
Sparse halves in dense triangle-free graphs

Corinna Gottschalk
Finding a Directed Ear-Decomposition with In-Degree at Most Two for Special Instances of Graphic TSP

Sophie Spirkl
Reach-aware Steiner trees

Ulrike Suhl
Gate Sizing in VLSI Design

19.00 Conference Dinner

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Saturday, June 8

09.00 - 10:00 **Angelika Steger**
Random Ramsey Theory

10.00 - 10.30 **Coffee break**

10.30 - 10.55 **Júlia Pap**
Stable Multicommodity Flows

10.55 - 11.20 **Melanie Schmidt**
Earliest Arrival Flows

11.20 - 11.45 **Anita Liebenau**
Fast strategies in Maker-Breaker games

11.45 - 12.10 **Ágnes Cseh**
Noble Matchmakers

12.10 - 13.30 **Lunch break**

13.30 - 13.55 **Renata Erika Kovács**
Network Coding Algorithms for Wireless Networks

13.55 - 14.20 **Christina Büsing**
Recoverable Robustness by exchanging or deleting k elements

14.20 - 14.45 **Susan Margulies**
Hilbert's Nullstellensatz and Linear Algebra:
An Algorithm for Determining Combinatorial Infeasibility

14.45 - 15.10 **Christine Zarges**
Analysis of Randomised Search Heuristics
- The Fixed Budget Perspective

15.10 - 15.40 **Coffee break**

15.40 - 16.05 **Anja Fischer**
New lifting approaches for quadratic traveling salesman problems

16.05 - 16.30 **Dijana Kreso**
Invariants of polynomial decomposition

16.30 - 16.55 **Teresa Piovesan**
A conic approach to entangled-assisted graph parameters

16.55 - 17.20 **Annika Heckel**
The hitting time of rainbow connection number two

17.45 **Guided tour of the Arithmeum**

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Sunday, June 9

09.00 - 10:00 **Angelika Steger**
Our Brain: heavily relying on randomness

10.00 - 10.30 **Coffee break**

10.30 - 10.55 **Carolyn Chun**
A splitter theorem for internally 4-connected graphs and binary matroids

10.55 - 11.20 **Eglantine Camby**
The Price of Connectivity for Vertex Cover: Perfect, Near-Perfect and Critical Graphs

11.20 - 11.45 **Katherine Edwards**
Bounding the fractional chromatic number of K_Δ - free graphs

11.45 - 12.10 **Katarzyna Mieczkowska**
On Erdős' extremal problem on matchings in hypergraphs