

## 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

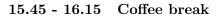
Eugenia Holm Biclique Cover Problem

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





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  $\varepsilon$ -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.	<b>20 Christina Büsing</b> Recoverable Robustness by exchanging or deleting k elements
14.20 - 14.	<b>45</b> Susan Margulies Hilbert's Nullstellensatz and Linear Algebra: An Algorithm for Determining Combinatorial Infeasibility
14.45 - 15.	<ul> <li>10 Christine Zarges</li> <li>Analysis of Randomised Search Heuristics</li> <li>The Fixed Budget Perspective</li> </ul>
15.10 - 15.	40 Coffee break
15.40 - 16.	05 Anja Fischer New lifting approaches for quadratic traveling salesman problems
16.05 - 16.	<b>30 Dijana Kreso</b> Invariants of polynomial decomposition
16.30 - 16.	55 Teresa Piovesan A conic approach to entangled-assisted graph parameters
16.55 - 17.	<b>20 Annika Heckel</b> The hitting time of rainbow connection number two
17.45	Guided tour of the Arithmeum



## 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  $K_{\Delta}$  - free graphs
- 11.45 12.10 Katarzyna Mieczkowska On Erdős' extremal problem on matchings in hypergraphs