HAUSDORFF RESEARCH INSTITUTE
FOR MATHEMATICS

UNIVERSITÄT BONN

Follow-Up-Workshop to TP

"Discrete Optimization"

April 20 to April 24, 2026

organized by

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Time measurement: CEST

- **Monday, April 20**

08:30 - 09:15	*Arrival and Self-Registration*
09:20 - 09:25	*Welcome by HIM Director Stefan Müller*
09:30 - 10:30	**Lisa Sauermann** (University of Bonn) – *Slicing All Edges of the Hypercube by Hyperplanes*
10:30 - 11:00	*Coffee break*
11:00 - 11:30	**Fabrizio Grandoni** (SUPSI) – *A Framework for k-Median and k-Means Approximation*
11:30 - 12:00	**Alantha Newman** (CNRS, Laboratoire G-SCOP) – *Clustering and Ranking*
12:00 - 14:00	*Lunch break*
14:00 - 14:30	**András Sebő** (CNRS, Laboratoire G-SCOP) – *Some Paths with HIM and You over the Years*
14:30 - 16:00	**Open problem session and discussion**
16:00 - 16:30	*Coffee break*
16:30 - 18:00	**Informal discussion**
18:00 -	*Get-together*

- **Tuesday, April 21**

09:00 - 10:00	**Jan van den Brand** (Georgia Tech) – *The Structural Complexity of Matrix-Vector Multiplication*
10:00 - 10:30	*Coffee break*
10:30 - 11:00	**Kristóf Bérczi** (Eötvös University) – *Fixed-Parameter Tractability and Hardness for Steiner Rooted and Locally Connected Orientations*

11:00 - 11:30	**Karthik Chandrasekaran** (University of Illinois) – *Hedgegraph Polymatroids*
11:30 - 12:00	**Nicole Megow** (University of Bremen) – *The Power of Two Oracles: Minimum Spanning Tree and Matroid Optimization*
12:00 - 12:15	*Group photo*
12:15 - 14:00	*Lunch break*
14:00 - 16:00	**Informal discussion**
16:00 - 16:30	*Coffee break*
16:30 - 17:00	**Karol Węgrzycki** (Max Planck Institute) – *A Subexponential Time Algorithm for Makespan Scheduling of Unit Jobs with Precedence Constraints*
17:00 - 17:30	**Klaus Jansen** (Christian-Albrechts-Universität zu Kiel) – *A Tight Double-Exponentially Lower Bound for High-Multiplicity Bin Packing*
17:30 - 18:00	**Sorrachai Yingchareonthawornchai** (ETH Zürich) – *A Little Clairvoyance Is All You Need*

- **Wednesday, April 22**

09:00 - 10:00	**Bento Natura** (Columbia University) – *Circuit Diameter of Polyhedra Is Strongly Polynomial*
10:00 - 10:30	*Coffee break*
10:30 - 11:00	**Xavier Allamigeon** (Inria and Ecole Polytechnique) – *Tropical vs Classical Oriented Matroids*
11:00 - 11:30	**Georg Loho** (FU Berlin) – *Many Rays of the Submodular Cone*
11:30 - 12:00	**Niklas Schlomberg** (University of Bonn) – *TBA*
12:00 - 14:00	*Lunch break*
14:00 -	*Hike / free time*
16:00 - 16:30	*Coffee break*

- **Thursday, April 23**

09:00 - 10:00	**Vera Traub** (ETH Zürich) – *Steiner Forest: A Simplified Better-Than-2 Approximation*
10:00 - 10:30	*Coffee break*
10:30 - 11:00	**Hung Hoang** (TU Wien) – *A Near-Complete Resolution of the Exponential-Time Complexity of k-Opt for TSP*
11:00 - 11:30	**Stefan Hougardy** (Universität Bonn) – *Fast Algorithms for Euclidean Perfect Matching*

11:30 - 12:00	**Matthias Mnich** (Universität Hamburg) – *Subexponentially Faster Quasi-Random Walks*
12:00 - 14:00	*Lunch break*
14:00 - 16:00	**Informal discussion**
16:00 - 16:30	*Coffee break*
16:30 - 17:00	**Jannik Matuschke** (KU Leuven) – *Stronger Hardness for Maximum Robust Flow and Randomized Network Interdiction*
17:00 - 17:30	**Sarah Morell** (University of Bremen) – *Unsplittable Transshipments*
17:30 - 18:00	**Gerard Cornuejols** (Carnegie Mellon University) – *Younger's Family of Minimally Non-Packing Clutters and Beyond*

- **Friday, April 24**

09:00 - 10:00	**Sophie Huiberts** (LIMOS) – *Analyzing the Simplex Method By-the-Book*
10:00 - 10:30	*Coffee break*
10:30 - 11:00	**Haoyuan Ma** (University of Bonn) – *Trust Region Interior Point Methods: Optimal L2- and Faster Wide-Neighborhood Path Following*
11:00 - 11:30	**Neil Olver** (LSE) – *Thin Trees for Structured Families*
11:30 - 12:00	**Thomas Rothvoss** (University of Washington) – *A Parameterized Linear Formulation of the Integer Hull*