Thursday, 22 November 2018

18:00   *Get together and registration* at **Bobberts** (Neuer Platz 3, Downtown Paderborn)

Friday, 23 November 2018

08:30   *Registration*

09:00 - 09:05   *Opening*

09:05 - 10:00   **Bill Jackson**   **(London)**
"Rigidity of graphs and frameworks"

10:00 - 10:30   *Coffee break*

10:30 - 12:05   **Parallel sessions**

12:05 - 13:15   *Lunch*

13:15 - 14:50   **Parallel sessions**

14:50 - 15:20   *Coffee break*

15:20 - 16:15   **Karen Meagher**   **(Regina)**
"Erdős-Ko-Rado theorems for permutations"

16:15 - 16:25   *Short break*

16:25 - 17:20   **Dion Gijswijt**   **(Delft)**
"Cap sets and new applications of the polynomial method"

19:00   *Dinner* at **Bobberts** (Neuer Platz 3, Downtown Paderborn)

Saturday, 24 November 2018

08:50 - 10:00   **Parallel sessions**

10:00 - 10:30   *Coffee break*

10:30 - 12:05   **Parallel sessions**

12:05 - 13:15   *Lunch*

13:15 - 14:10   **Bernd Sturmfels**   **(Leipzig)**
"The geometry of SDP-exactness in quadratic optimization"

14:10 - 14:40   *Coffee break*

14:40 - 15:35   **Paul Seymour**   **(Princeton)**
"Gyárfás-Sumner meets Erdős-Hajnal"

15:35 - 15:40   *Farewell*

Detailed program on Friday morning

23 November 2018

Time	Section I	Section II	Section III	Section IV
	Room: A	**Room: B**	**Room: C**	**Room: D**
09:00 - 09:05	*Opening* **Room: E**			
09:05 - 10:00	**Bill Jackson** Rigidity of graphs and frameworks **Room: E**			
10:00 - 10:30	*Coffee break*			
10:30 - 10:50	**H. Harborth** 1 Numbers of crossings in drawings of the cycle graph	**I. Beckenbach** 2 The tight cut decomposition of matching covered hypergraphs	**S. Li** 3 Constructions of primitive formally dual pairs having subsets with unequal sizes	**M.V. Sangaranar.** 4 Partition functions for two-dimensional nearest neighbor Ising models and applications in chemistry
10:55 - 11:15	**K. S. Lyngsie** 5 A 3-decomposition theorem	**M. Sonntag** 6 Edge intersection hypergraphs	**H. Zerdoum** 7 Zero-sum problems in finite abelian groups	**W. Hochstättler** 8 The Varchenko determinant of an oriented matroid
11:20 - 11:40	**C. T. Zamfirescu** 9 Grinberg's criterion	**S. Wiederrecht** 10 On perfect matchings in uniform balanced hypergraphs	**K. Tabak** 11 Viergruppen as Hamiltonian graphs	**S. Gharibian** 12 On efficiently solvable cases of Quantum k-SAT
11:45 - 12:05	**I. Schiermeyer** 13 Gallai Ramsey numbers of complete graphs and odd cycles	**M. Hiller** 14 Gallai-Edmonds-decompositions for balanced hypergraphs	**Y. Stanchescu** 15 Additive combinatorics in ordered nilpotent groups	**M. Hatzel** 16 Perfect matching width, grids and directed cycles
12:05 - 13:15	*Lunch*			

Detailed program on Friday afternoon

23 November 2018

Time	Section I Room: A	Section II Room: B	Section III Room: C	Section IV Room: D
13:15 - 13:35	**J. P. Zerafa** 17 An equivalent formulation of the Fan-Raspaud Conjecture and related problems	**D. Frettlöh** 18 Perfect colourings of regular graphs	**F. Szöllősi** 19 New constructions of few-distance sets	**Schrezenmaier** 20 Equiangular polygon contact representations
13:40 - 14:00	**J. Goedgebeur** 21 Generation of hypohamiltonian graphs	**D. Offner** 22 Polychromatic colorings on the hypercube	**M. Ganzhinov** 23 Largest sets of biangular lines in low-dimensional Euclidean spaces	**M. Pankov** 24 Zigzags in embedded graphs. Z-knotted triangulations of surfaces
14:05 - 14:25	**M. Schubert** 25 Flows on signed graphs without long barbells	**R. Steiner** 26 Metric colourings of graphs	**A. A. Polujan** 27 Homogeneous cubic bent functions: new from old	**M. Scheucher** 28 Arrangements of pseudocircles: On circularizability
14:30 - 14:50	**D. Mattiolo** 29 On the circular flow number of graphs	**S. D. Andres** 30 The orthogonal graph colouring game	**L. Kölsch** 31 Optimal implementations of matrix multiplication in finite fields	**C. Kolb** 32 Compact competitive polygonal routing: The case of pairwise intersecting convex hulls
14:50 - 15:20	*Coffee break*			
15:20 - 16:15	**Karen Meagher** Erdős-Ko-Rado theorems for permutations **Room: E**			
16:15 - 16:25	*Short break*			
16:25 - 17:20	**Dion Gijswijt** Cap sets and new applications of the polynomial method **Room: E**			

Detailed program on Saturday

24 November 2018

Time	Section I Room: A	Section II Room: B	Section III Room: C	Section IV Room: D
08:50 - 09:10	**Van Cleemput** 33 Shortness coefficient of cyclically 4-edge-connected cubic graphs	**A. Klopp** 34 Path-factors of edge-chromatic critical graphs	**M. Kiermaier** 35 On the lengths of divisible codes	**Ch. Josten** 36 Twin Partitions: trying to count every second real number
09:15 - 09:35	**I. Allie** 37 Oddness to resistance ratios in cubic graphs	**A. Lozano** 38 Caterpillars are antimagic	**C. Deppe** 39 Coding and decoding algorithms for Q-ary error-correcting codes with feedback	**M. Walter** 40 Extended formulations for radial cones
09:40 - 10:00	**E. Dahlhaus** 41 Even cycles of cubic planar graphs	**T. Schweser** 42 DP-colorings of hypergraphs	**L. Nölke** 43 Packing anchored rectangles with resource augmentation	**H. Bergold** 44 A combinatorial extension of the colorful carathéodory
10:00 - 10:30	*Coffee break*			
10:30 - 10:50	**O. Parczyk** 45 Universality in randomly perturbed graphs	**S. Mohr** 46 Kempe chains and rooted minors	**F. Ihringer** 47 Regular intersecting families	**J. Syrovátková** 48 Finding automaton maximizing score in prisoner's dilemma tournament
10:55 - 11:15	**J. Alvarado** 49 Constrained graphons of maximum entropy	**A. Erey** 50 Maximizing the number of colorings and independent sets	**M. Kwiatkowski** 51 The graphs of projective codes	**Kantarcı Oğuz** 52 A connection between peak and descent polynomials
11:20 - 11:40	**T. Laihonen** 53 About a conjecture on identification in Hamming graphs	**J. Wiehe** 54 Computing the NL-flow polynomial	**Vlahović Kruc** 55 Some new quasi-symmetric designs on 56 points	**A. Haupt** 56 Enumeration of S-omino towers
11:45 - 12:05	**J. Rollin** 57 Induced arboricity	**M. Alipour** 58 Graph operations and neighborhood polynomials	**L. A. Pham** 59 Latin cubes with forbidden entries	**R. Bachmann** 60 Binomial transforms and zeta series
12:05 - 13:15	*Lunch*			
13:15 - 14:10	**Bernd Sturmfels** The geometry of SDP-exactness in quadratic optimization **Room: E**			
14:10 - 14:40	*Coffee break*			
14:40 - 15:35	**Paul Seymour** Gyárfás-Sumner meets Erdős-Hajnal **Room: E**			
15:35 - 15:40	*Farewell*			