

**The 22nd International Conference on
RANDOM STRUCTURES & ALGORITHMS**

4 – 8 August 2025

TU Wien, Freihaus, Wiedner Hauptstrasse 8 – 10, Vienna

1 Program Overview

	Monday, 4 Aug	Tuesday, 5 Aug	Wednesday, 6 Aug	Thursday, 7 Aug	Friday, 8 Aug
08:45 – 09:00	Opening (FH1)				
09:00 – 10:00	Karoński Lecture (FH1): Alan Frieze	Plenary talk (FH1): Svante Janson	Plenary talk (FH1): Vincent Tassion	Plenary talk (FH1): Catherine Greenhill	Contributed talks
10:00 – 10:10	Coffee break	Coffee break	Group photo (FH1)	Coffee break	
10:20 – 10:30			Coffee break		
10:30 – 11:00	Contributed talks	Contributed talks	Contributed talks	Contributed talks	Coffee break
11:00 – 12:00					Plenary talk: Will Perkins
12:00 – 12:15	Lunch	Lunch	Lunch	Lunch	Closing (FH1)
12:15 – 14:00					Lunch
14:00 – 15:00	Plenary talk (FH1): Lisa Sauer mann	Plenary talk (FH1): Shoham Letzter	Free afternoon	Plenary talk (FH1): Mehtaab Sawhney	Departure
15:00 – 15:30	Coffee break	Coffee break		Coffee break	
15:30 – 17:00	Contributed talks			Contributed talks	
17:00 – 17:30		Random run			
18:00 – 20:00	Reception (drinks)				
19:00 – 22:00				Conference dinner	

2 Detailed Information and Program

REGISTRATION DESK

In the foyer of FH1, first floor

Monday, 4 August 2025, 08:30 – 10:30 and 12:00 – 14:00

Tuesday, 5 August 2025, 08:30 – 10:30

In urgent cases call +43 1 58801 10401

Upon registration, participants will receive their conference materials, name badges, and Mensa tickets.

The name badge serves as your entry pass to all events organized as part of the conference.

CONFERENCE PROGRAM

The conference program is available on the website

<https://www.dmg.tuwien.ac.at/rsa2025/>

and at the lecture rooms.

All lecture rooms are in the first and second floor of the Freihaus of TU Wien, Wiedner Hauptstrasse 8 – 10.

LUNCH

At the **MENSA**, Freihaus of TU Wien, Tower B, 1st floor

Monday, 4 August 2025 – Thursday, 7 August 2025, 12:00 – 14:00

Friday, 8 August 2025, 12:15 – 14:00

Please use your **Mensa Tickets**.

RECEPTION (DRINKS)

Kuppelsaal of the TU Wien Main Building, Karlsplatz 13

Monday, 4 August 2025, 18:00 – 20:00

RANDOM RUN

Jahnwiese, Wasnergasse, 1200 Wien

Tuesday, 5 August 2025, 17:00 – 17:30

Please confirm your participation at the registration desk and pick up your Number.

GROUP PHOTO

Lecture Hall FH1

Wednesday, 6 August 2025, 10:00 – 10:10

CONFERENCE DINNER

Fuhrgassl-Huber, Neustift am Walde 68, 1190 Wien

Thursday, 7 August 2025, 19:00 – 22:00

DEPARTURE / TRANSPORT

Bus transportation will be provided between TU Wien and the Fuhrgassl-Huber Restaurant.

- Departure from TU Wien: 18:30
- Return transfers from Fuhrgassl-Huber Restaurant will be available at 22:00, 22:15, and 22:30.

WLAN

You can either use **eduroam** or the WLAN provided by the conference material.

Monday, 4 August	Room FH1	Room FH2	Room FH4	Room FH7	Room SemA	Room SemB	Room FH3
08:45 – 09:00	Opening						
09:00 – 10:00	Karoński lecture: Alan Frieze, Loose Hamilton Cycles in r -Uniform Hypergraphs						
10:00 – 10:30	Coffee break						
10:30 – 10:55	Xiaoyu He, Polynomial to Exponential Transition in 3-uniform Ramsey numbers	Antônio Kaique, Rainbow Path Covers of Sparse Random Graphs	Jakob Hofstad, Two-Point Concentration of the Independence Number of $G_{n,m}$	Silas Rathke, On the maximum diameter of d -dimensional simplicial complexes	Milos Stojakovic, Phantom positional games	Yaakov Malinovsky, Hitting primes by dice rolls	Tyler Helmuth, The Arboreal Gas
11:00 – 11:25	Andrew Lane, Generalized Ramsey numbers via conflict-free hypergraph matchings	Stijn Cambie, Determining $(k; g, d)$ -cages and estimating their order	Vincent Pfenninger, Central limit theorems in sparse binomial random graphs	Asaf Cohen Antonir, Weak saturation and collapsible complexes in a random graph	Anand Srivastav, Recent Advances in the Maker-Breaker Subgraph Game	Elad Aigner-Horev, Resilience of Rademacher chaos of low degree	Clayton Mizgerd, Chromatic number of random triangle-free graphs
11:30 – 11:55	Shagnik Das, Odd-Ramsey numbers of spanning structures	Ella Williams, Embedding trees using minimum and maximum degree conditions	Wojciech Michalczuk, Normal approximation for subgraph count in random hypergraphs	Francesco Di Braccio, The Zarankiewicz problem on tripartite graphs	Yannick Mogge, Seeing is not believing in limited visibility cops and robbers	Aleksandr Grebenikov, Geometric Littlewood-Offord problems via lattice...	Jacob Richey, Patterns and statistics in shifts of finite type
12:00 – 14:00	Lunch						
14:00 – 15:00	Plenary talk: Lisa Saueremann, Asymptotically-tight packing and covering...						
15:00 – 15:30	Coffee break						
15:30 – 15:55	Jozsef Solymosi, Randomness in extremal hypergraph constructions	Yangyang Cheng, An Exact Ore condition for Hamilton cycles in oriented graphs	Fabian Burghart, F -Factors in random graphs	Xusheng Zhang, Understanding phase transition of one-sample learning through k -SAT	Michael Fuchs, The depth of the most recent common ancestor of a random sample...	Gaurav Kucheriya, Acyclic oriented graphs with unique dipath property	Anna Geisler, Universal behaviour of majority bootstrap percolation on high...
16:00 – 16:25	Oleg Pikhurko, Constructions of Turán systems that are tight up to a multiplicative...	Nicolás Sanhueza-Matamala, A hypergraph bandwidth theorem	Mihir Sanjeev Neve, Robustness of the Sauer-Spencer Theorem	Arnab Chatterjee, Belief Propagation Guided Decimation on random k -XORSAT	Valeriia Kotelnikova, A law of the iterated logarithm for random recursive trees	Elizaveta Popova, On the maximal degree of induced subgraphs of product graphs	Tomasz Przybyłowski, Locating the origin of a random walk
16:30 – 16:55	Hung-Hsun Hans Yu, An Entropic Proof of Turán's Theorem	Arjun Ranganathan, Tight Hamiltonicity in Hypergraphs with Dichotomous Degrees	Sylwia Antoniuk, Powers of a Hamilton cycle in a randomly augmented graph...	Wesley Pegden, On Minimum Cost Rainbow Structures	Tsan-Cheng Yu, The B2 index of galled trees	Luke Collins, Chords in longest cycles	Baptiste Louf, Counting with random walks
17:00 – 17:25	Ting-Wei Chao, A generalization of Shearer's inequality	Camila Zárate-Guerén, Positive codegree thresholds for Hamilton cycles in hypergraphs	Tadej Petar Tukara, All transition points for clique factors in randomly perturbed graphs	Pavel Zakharov, Walk-SAT is linear on random 2-SAT	Roy Deutch, Topological Patterns in Trivalent Trees	Fei Peng, An improved bound on Seymour's second neighborhood conjecture	Tamas Makai, Limit Laws for Critical Dispersion on Complete Graphs
18:00 – 20:00	Reception (drinks)						

Wednesday, 6 August	Room FH1	Room FH2	Room FH4	Room FH7	Room SemA	Room SemB	Room FH3
09:00 – 10:00	Plenary talk: Vincent Tassion, Noise sensitivity via differential inequalities						
10:00 – 10:10	Group photo						
10:10 – 10:30	Coffee break						
10:30 – 10:55	Benjamin Sudakov, Long induced path in $K_{s,s}$ -free graph	Thomas Fischer, Fractional vs. expectation threshold: an overview	John Sylvester, Exploration of Random Temporal Graphs	Michael C. Wigal, On packing edge disjoint cliques in graphs	Frederik Garbe, Asymptotically enumerating independent sets in regular...	Alexander Gnedin, A Random Graph Growth Model	Gabriel Istrate, Conway's Army Percolation
11:00 – 11:25	Michael Anastos, Nearly spanning cycle in the percolated hypercube	Stepan Vakhrushev, The threshold of a k -gon's triangulations	Sofiya Burova, Temporal Stochastic Block Model	Amedeo Sgueglia, On Kotzig's conjecture in random graphs	Mihalis Sarantis, On the number of antichains in $\{0, 1, 2\}^n$	Nikolaos Fountoulakis, Majority dynamics with more than two states on a random...	Charles Burnette, Extending the Affirmative Action Problem: mixing numbers and...
11:30 – 11:55	Sahar Diskin, Cycle lengths in the percolated hypercube	Nina Kamcev, Finding trees in a jungle	Julien Portier, Monotonicity and Sprinkling properties of random regular graphs	Thomas Lesgourgues, Graph decomposition via refined absorption: when Erdős meets...	Ronen Wdowinski, Counting independent sets in percolated graphs via the Ising...	Małgorzata Sulkowska, Modularity of preferential attachment graphs	Kostas Zampetakis, The Random k -SAT Gibbs Uniqueness Threshold Revisited

Thursday, 7 August	Room FH1	Room FH2	Room FH4	Room FH7	Room SemA	Room SemB	Room FH3
09:00 – 10:00	Plenary talk: Catherine Greenhill, The switching method in applications expected and...						
10:00 – 10:30	Coffee break						
10:30 – 10:55	Zach Hunter, Sharp bounds for a question of Daykin and Erdős	Jakub Przybyło, On homogeneous substructures in random ordered uniform matchings	Walaa Asakly, Bell numbers, Stirling numbers and set partitions	Alberto Espuny Díaz, Factors and powers of Hamilton cycles in the budget-constrained...	Kyprianos-Iason Prodromidis, Polynomial mixing of the critical Ising model on sparse...	Patrick Bennett, On the generalized Ramsey numbers $r(K_{n,n}, C_{2k}, 3)$	Sean Longbrake, On the Number of H -Free Hypergraphs
11:00 – 11:25	Aleksa Milojevic, Set-families with many disjoint pairs	Tomasz Kościuszko, Schur-like numbers and a lemma of Shearer	Cyril Banderier, Universal limit laws associated to phase transitions in combinatorial...	Zak Smith, Clique covers in the budget-constrained random graph process	Marcus Pappik, Fast and Slow Mixing of the Kawasaki Dynamics on Bounded-Degree...	Andrea Freschi, Ramsey problems for tilings in graphs	Igor Balla, Equiangular lines via improved eigenvalue multiplicity
11:30 – 11:55	Allan Flower, Weighted intersecting families	Ruben Ascoli, Rational values of the weak saturation limit	Katarzyna Rybarczyk, Subsequent elements in Mallows permutations	Silvia Onofri, Can we generate randomness from stock market data?	Ritesh Goenka, Cut-off for generalized Bernoulli-Laplace urn models	Jan Volec, Flag algebras for fixed-size structures	Adrian Beker, Limiting spectral laws for sparse random circulant matrices
12:00 – 14:00	Lunch						
14:00 – 15:00	Plenary talk: Mehtaab Sawhney, Local limit theorems in combinatorics and applications						
15:00 – 15:30	Coffee break						
15:30 – 15:55		Sayan Gupta, On the Ramsey number of book and odd cycles	Anna Margarethe Limbach, Graphon branching processes and fractional isomorphism	Nicolas Privault, Normal approximation of subgraph counts in the Poisson and binomial...	Micha Christoph, Universality for transversal Hamilton cycles in random graphs	Leticia Mattos, On the number of sets with small sumset	Candida Bowtell, Decomposing random Latin squares into transversals
16:00 – 16:25		Jun Yan, Ramsey numbers of trees	Anda Skeja, Graphon-Based Information Measures for Multiplex Graphs	Grzegorz Serafin, Small subgraphs count in random intersection graph	Grzegorz Ryn, Two-colorability of random non-uniform hypergraphs	João Pedro Marciano, The independence number of random Cayley graphs and...	Alp Müyesser, On Graham's rearrangement conjecture
16:30 – 16:55		Kyriakos Katsamakis, 2-round Ramsey games in random graphs for cycles	Eero Rätty, First-order convergence results on small permutation classes	Matas Šileikis, The upper tail of star counts in sparse random graphs	Niall Smith, Discrepancy of Hamilton Cycles in Random Subgraphs	Lander Verlinde, The typical structure of sets with bounded sumset	Teodor Petrov, Almost-full transversals in equi- n -squares
17:00 – 17:25		Noam Feinstein, Improved Constructions for Ramsey Multiplicities	Laurentiu Ploscaru, Distinct Degrees and Homogeneous Sets	Xiao Fang, Normal Approximation for Exponential Random Graphs	Hillel Raz, Proportional Edge-Colorings	Anubhab Ghosal, On the largest k -product-free subsets of the alternating groups.	Kalina Petrova, Cameron's conjecture on random Latin squares
19:00 – 22:00	Conference dinner						

Friday, 8 August	Room FH1	Room FH2	Room FH4	Room FH7	Room SemA	Room SemB
09:00 – 09:25	Gregory Sorkin, Progress in semi-random graphs and hypergraphs	Richard Lang, Simultaneous edge-colourings	Mark Huber, Exact sampling from proper colorings in linear time with colors linear in...	Matija Pasch, Robustness of Geometric Inhomogeneous Random Graphs	Marcus Kühn, The Hypergraph Removal Process	Tássio Naia, Canonical Ramsey numbers of even cycles
09:30 – 09:55	Michael Molloy, An improved bound for the List Colouring Conjecture	Alexander Clifton, 3-Neighbor bootstrap percolation on two-dimensional grids	Zbigniew Golebiewski, Boltzmann Sampling of Directed Acyclic Graphs	Leon Schiller, Testing Thresholds and Spectral Properties of High-Dimensional...	He Guo, Semi-random greedy independent set algorithm	Patrick Morris, A sparse canonical van der Waerden theorem
10:00 – 10:25	Lukas Michel, New bounds for linear arboricity and related problems	Dominik Beck, Analysing the Moments of the Determinant of a Random...	Charilaos Efthymiou, On sampling two spin models using the local connective constant	Zhihan Jin, Colouring random Hasse diagrams and box-Delaunay graphs	Simona Boyadzhyska, Almost-perfect colorful matchings in three-edge-colored...	Robert Hancock, Orientation Ramsey thresholds
10:30 – 11:00	Coffee					
11:00 – 12:00	Plenary talk: Will Perkins, The Evolution of Triangle-Free Graphs					
12:00 – 12:15	Closing					
12:15 – 14:00	Lunch					
14:00	Departure					