

Innovations and Challenges in Extremal Combinatorics

(27 Jul 2026–07 Aug 2026)



ORGANIZING COMMITTEE

Shagnik Das
National Taiwan University

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Venue

IMS Executive Seminar Room

Bock S17, Level 3

10 Lower Kent Ridge Rd Singapore 119076

Innovations and Challenges in Extremal Combinatorics

Workshop
(3–7 Aug 2026)

Monday, 03 August 2026

Time	Title	Speaker
0900–0930	Registration	
0930–1010	Sign Patterns and Ordering	Noga Alon <i>Princeton University, USA</i> <i>Tel Aviv University, Israel</i>
1010–1050	How many Spanning Trees in a Bipartite Graph?	Boon Suan Ho <i>National University of Singapore, Singapore</i>
1050–1110	Tea Break	
1110–1150	Pentagons in Triple Systems	Dhruv Mubayi <i>University of Illinois Chicago, USA</i>
1150–1400	Lunch Break	
1400–1440	Asymptotic Enumeration of Latin Rectangles	Anita Liebenau <i>UNSW Sydney, Australia</i>
1440–1520	Semidefinite Programming Bounds for Designs on Spheres and Hamming Spaces	Wei-Hsuan Yu <i>National Central University, Taoyuan</i>
1520–1540	Tea Break	
1540–1620	Dominoes Tiling a Common Figure	Jeck Lim <i>University of Oxford, UK</i>
1620–1720	Open problem session	

Tuesday, 04 August 2026

Time	Title	Speaker
0915–0930	Registration	
0930–1010	Random Geometric Graphs: Ramsey Bounds and Testing Thresholds	Benny Sudakov <i>ETH Zurich, Switzerland</i>
1010–1050	Tower Heights for Color-avoiding Ramsey Numbers of Monotone Paths	Tuan Tran <i>University of Science & Tech. of China, China</i>
1050–1110	Tea Break	
1110–1150	Structural Reductions for Monochromatic Matchings and Ramsey Tilings	Hong Liu <i>Institute for Basic Science, Korea</i>

Tuesday, 04 August 2026		
Time	Title	Speaker
1150–1400	Lunch Break	
1400–1440	Recent Progress on Erdős–Rogers Function	Jacques Verstraete <i>UC San Diego, USA</i>
1440–1520	Canonical Ramsey Property for All Triangles	Yijia Fang <i>National University of Singapore, Singapore</i>
1520–1540	Tea Break	
1540–1620	Improved Bounds for Loose Odd Cycle Densities	Joonkyung Lee <i>Yonsei University, Korea</i>
1620–1720	Free Discussion	
1800	Conference Dinner (by invitation only)	
Wednesday, 5 August 2026		
Time	Title	Speaker
0915–0930	Registration	
0930–1010	Spectral and Trace Positivity of Matrix Words	Fan Wei <i>Duke University, USA</i>
1010–1050	Longest Cycles meet Linearly in Highly Connected Graphs	Ziyuan Zhao <i>University of Science & Tech. of China, China</i>
1050–1110	Tea Break	
1110–1150	Off-Diagonal Ramsey Numbers for Slowly Growing Hypergraphs	Sam Mattheus <i>Vrije Universiteit Brussel, Belgium</i>
Thursday, 6 August 2026		
Time	Title	Speaker
0915–0930	Registration	
0930–1010	Towards the Lovász Conjecture via Sublinear Expanders	Alexey Pokrovskiy <i>University College London, UK</i>
1010–1050	The Product of Intersecting Families	Hehui Wu <i>Fudan University, China</i>
1050–1110	Tea Break	
1110–1150	The No-4-in-line Problem	Matthew Kwan <i>Inst. of Science & Tech Austria, Austria</i>
1150–1400	Lunch Break	

Thursday, 6 August 2026		
Time	Title	Speaker
1400–1440	Breaking the Bollobás–Eldridge–Catlin Barrier for Bipartite Graphs	Jozef Skokan <i>London School of Economics and Political Science, UK</i>
1440–1520	On the $(k + 2)$ -th Largest Degree of an Intersecting Family	Rui Rao <i>National University of Singapore, Singapore</i>
1520–1540	Tea Break	
1540–1620	The Chromatic Number of Finite Projective Spaces	Anurag Bishnoi <i>TU Delft, Netherlands</i>
1620–1720	Free discussion	
Friday, 7 August 2026		
Time	Title	Speaker
0915–0930	Registration	
0930–1010	Four Functions Theorem and Schur Positivity	Swee Hong Chan <i>Rutgers University, USA</i>
1010–1050	Hypergraphs without Subgraphs of Given Connectivity	Shengjie Xie <i>University of Science & Tech. of China, China</i>
1050–1110	Tea Break	
1110–1150	Classification of Equiangular Lines with a Fixed Angle	Zilin Jiang <i>Arizona State University, USA</i>

This schedule is accurate as of July 27, 2026 and is subjected to changes.