

Additive Combinatorics

Monday 22 – Friday 26 July 2024

The programme is subject to change. All times are British Summer Time (BST).

MONDAY 22 JULY 2024	
09.00 - 09.50	Registration and Refreshments
09.50 - 10.00	Welcome and Housekeeping
10.00 - 11.00	Ben Green , University of Oxford <i>A survey of higher-order Fourier analysis</i>
11.00 - 11.30	Refreshments
11.30 - 12.30	Frederick Manners , University of California San Diego <i>Maton's polynomial Freiman–Ruzsa conjecture</i>
12.30 - 14.30	Lunch
14.30 - 15.30	James Leng , UCLA <i>Improved bounds for the Gowers $U^{s+1}[N]$ inverse Theorem, Part I</i>
15.30 - 16.00	Refreshments
16.00 - 17.00	Mehtaab Sawhney , MIT <i>Improved bounds for the Gowers $U^{s+1}[N]$ inverse Theorem, Part II</i>
17.00 - 18.00	Welcome Reception, hosted at ICMS

TUESDAY 23 JULY 2024	
10.00 - 11.00	Joel Moreira , University of Warwick <i>Recent developments in Ergodic Ramsey theory</i>
11.00 - 11.30	Refreshments
11.30 - 12.30	Florian Richter , EPFL <i>Uniformity norms and Hindman's conjecture</i>
12.30 - 14.30	Lunch
14.30 - 15.30	Noam Lifshitz , Hebrew University of Jerusalem <i>Product mixing in groups</i>
15.30 - 16.00	Refreshments
16.00 - 17.00	Problem Session

WEDNESDAY 24 JULY 2024	
10.00 - 11.00	Terence Tao , UCLA <i>Additive combinatorics and the primes</i>
11.00 - 11.30	Refreshments
11.30 - 12.30	Joni Teräväinen , University of Turku <i>On quantitative Gowers uniformity and applications</i>
12.30 - 14.30	Lunch
14.30 - 15.30	Oleksiy Klurman , University of Bristol <i>Partition Regularity of Squares</i>
15.30 - 16.00	Refreshments
16.00 - 17.00	Luka Milićević , Mathematical Institute of the Serbian Academy of Sciences and Arts <i>Good bounds for sets lacking skew corners</i>

THURSDAY 25 JULY 2024	
10.00 - 11.00	David Conlon , California Institute of Technology <i>Removal lemmas, dense and sparse</i>
11.00 - 11.30	Refreshments
11.30 - 12.30	Julia Wolf , University of Cambridge <i>The structure of sets of bounded VC₂-dimension</i>
12.30 - 14.30	Lunch
14.30 - 15.30	Jacob Fox , Stanford University <i>Additive Combinatorics without addition</i>
15.30 - 16.00	Refreshments
16.00 - 17.00	Huy Pham , Stanford University <i>Ruzsa's conjecture from a combinatorial approach</i>
19.00 - 22.00	Workshop Dinner, hosted at Playfair Library <i>Old College, The University of Edinburgh, South Bridge, Edinburgh EH8 9YL (approx. 4min walk from ICMS)</i>

FRIDAY 26 JULY 2024	
10.00 - 11.00	Misha Rudnev , University of Bristol <i>Some recent progress apropos of the sum-product conjecture</i>
11.00 - 11.30	Refreshments
11.30 - 12.30	Yifan Jing , University of Oxford <i>Measure Doubling for Small Sets in SO(3,R)</i>
12.30	Lunch and End of Workshop