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 *A survey of higher-order Fourier analysis*
11.00 - 11.30	Refreshments
11.30 - 12.30	**Frederick Manners**, University of California San Diego *Marton's polynomial Freiman–Ruzsa conjecture*
12.30 - 14.30	Lunch
14.30 - 15.30	**James Leng**, UCLA *Improved bounds for the Gowers $U^{s+1}[N]$ inverse Theorem, Part I*
15.30 - 16.00	Refreshments
16.00 - 17.00	**Mehtaab Sawhney**, MIT *Improved bounds for the Gowers $U^{s+1}[N]$ inverse Theorem, Part II*
17.00 - 18.00	Welcome Reception, hosted at ICMS

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

WEDNESDAY 24 JULY 2024	
10.00 - 11.00	**Terence Tao**, UCLA *Additive combinatorics and the primes*
11.00 - 11.30	Refreshments
11.30 - 12.30	**Joni Teräväinen**, University of Turku *On quantitative Gowers uniformity and applications*
12.30 - 14.30	Lunch
14.30 - 15.30	**Oleksiy Klurman**, University of Bristol *Partition Regularity of Squares*
15.30 - 16.00	Refreshments
16.00 - 17.00	**Luka Milićević**, Mathematical Institute of the Serbian Academy of Sciences and Arts *Quasipolynomial bounds for the U^4 norm in F_p^n*

THURSDAY 25 JULY 2024	
10.00 - 11.00	**David Conlon**, California Institute of Technology *Removal lemmas, dense and sparse*
11.00 - 11.30	Refreshments
11.30 - 12.30	**Julia Wolf**, University of Cambridge *The structure of sets of bounded VC_2-dimension*
12.30 - 14.30	Lunch
14.30 - 15.30	**Jacob Fox**, Stanford University *Additive Combinatorics without addition*
15.30 - 16.00	Refreshments
16.00 - 17.00	**Huy Pham**, Stanford University *Ruzsa's conjecture from a combinatorial approach*
19.00 - 22.00	Workshop Dinner, hosted at Playfair Library *Old College, The University of Edinburgh, South Bridge, Edinburgh EH8 9YL (approx. 4min walk from ICMS)*

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