

# Diophantine Equations, Combinatorics, Analysis in Number Theory

Monday 23 – Friday 27 June 2025

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

MONDAY 23 JUNE	
09.00 – 09.45	Registration and refreshments
09.45 – 10.00	Welcome and housekeeping
10.00 – 11.00	<b>Jörg Brüdern</b> , Georg-August-Universität Göttingen <i>On the sum of a power and a prime</i>
11.00 – 11.30	Refreshments
11.30 – 12.30	<b>Robert Vaughan</b> , Penn State University <i>On the sum of a square and a cube</i>
12.30 – 14.00	Lunch
14.00 – 15.00	<b>Jim Wright</b> , University of Edinburgh <i>The multilinear circle method</i>
15.00 – 15.30	Refreshments
15.30 – 16.30	<b>Per Salberger</b> , Chalmers University of Technology <i>Counting rational points on threefolds and fourfolds</i>
16.30 – 18.00	Welcome reception

TUESDAY 24 JUNE	
10.00 – 11.00	<b>Rainer Dietmann</b> , Royal Holloway, University of London <i>Through the Cubic Looking Glass: Lines and Local Solutions</i>
11.00 – 11.30	Refreshments
11.30 – 12.30	<b>Simon Leo Rydin Myerson</b> , Chalmers University of Technology / University of Gothenburg <i>Systems of many forms with differing degrees</i>
12.30 – 14.00	Lunch
14.00 – 15.00	<b>Yu-Ru Liu</b> , University of Waterloo <i>Equidistribution of Polynomial Sequences in Function Fields</i>
15.00 – 15.30	Refreshments
15.30 – 16.30	<b>Julia Wolf</b> , University of Cambridge <i>From additive number theory to model theory and back: the structure of stable sets</i>

WEDNESDAY 25 JUNE	
10.00 – 11.00	<b>James Maynard</b> , University of Oxford <i>Large value estimates for Dirichlet polynomials and primes in short intervals</i>
11.00 – 11.30	Refreshments
11.30 – 12.30	<b>Ayla Gafni</b> , University of Mississippi <i>The Prime Number Theorem in Short Intervals</i>
12.30	Lunch and free afternoon

THURSDAY 26 JUNE	
10.00 – 11.00	<b>Sarah Peluse</b> , Stanford University <i>Title TBC</i>
11.00 – 11.30	Refreshments
11.30 – 12.30	<b>Sean Prendiville</b> , Lancaster University <i>A multidimensional version of a nonlinear Roth theorem</i>
12.30 – 14.00	Lunch
14.00 – 15.00	<b>Tim Browning</b> , IST Austria <i>The characteristic <math>p</math> analogue</i>
15.00 – 15.30	Refreshments
15.30 – 16.30	<b>Pankaj Vishe</b> , Durham University <i>Effective equidistribution of unipotent orbits and the circle method</i>
19.00	Workshop dinner, hosted at St Leonard's Hall <i>Address: St Leonard's Hall, 18 Holyrood Park Road, Edinburgh EH16 5AY</i>

FRIDAY 27 JUNE	
10.00 – 11.00	<b>Lillian Pierce</b> , Duke University <i>Counting integral points in thin sets</i>
11.00 – 11.30	Refreshments
11.30 – 12.30	<b>Thomas Bloom</b> , University of Manchester <i>Title TBC</i>
12.30	Lunch and end of workshop