# PAD 2025 program

Fry Building, Woodland Road

**Wednesday, 9th April**

09:00–09:25 *Registration* (foyer)

09:25–09:30 *Opening* (G.10)

**09:30–10:30 Bálint Tóth** (G.10)
Diffusion in the random Lorentz gas

**10:30–11:30 Eugenia Malinnikova** (G.10)
*Clay Lecture:* Uncertainty principles and spectral inequalities for Schrödinger operators

11:30–12:00 *Coffee* (Atrium)

**12:00–13:00 Giovanni Forni** (G.10)
Finite codimension stability of invariant surfaces

13:00–14:30 *Lunch* (Atrium)

**14:30–15:30 Nina Gantert** (G.10)
Biased random walk on dynamical percolation

15:30–16:00 *Tea* (Atrium)

**16:00–17:00 Rachel Greenfeld** (G.10)
Integer distance sets

**17:00–18:00 Tim Austin** (G.10)
Notions of entropy in ergodic theory and representation theory

18:00–18:30 *Poster session* (Atrium)

18:00–19:00 *Wine reception* (Atrium)

**Thursday, 10th April**

**09:00–10:00 Florian Richter** (G.10)
Ergodic methods in number theory and combinatorics

**10:00–11:00 Joel Moreira** (G.10)
Infinite sumsets via ergodic theory

11:00–11:30 *Coffee* (Atrium)

**11:30–12:30 Jason Miller** (G.10)
*TBA*

12:30–14:00 *Lunch* (Atrium)

**14:00–15:00 Alexander Gorodnik** (G.10)
Optimal approximation exponents and density hypothesis

15:00–15:30 *Tea* (Atrium)

**15:30–16:30 Laure Dumaz** (G.10)
Some aspects of the Anderson Hamiltonian in 1D

**16:30–17:30 Laura Monk** (G.10)
Typical hyperbolic surfaces have an optimal spectral gap

18:45 – *Conference dinner* (Orangery at Goldney Hall)

**Friday, 11th April**

**09:00–10:00 Andrea Mondino** (G.10)
Smooth and non-smooth aspects of Ricci curvature lower bounds

**10:00–11:00 Manfred Einsiedler** (G.10)
Effective equdistribution of closed orbits

11:00–11:30 *Coffee* (Atrium)

**11:30–12:30 Zemer Kosloff** (G.10)
Functional limit theorems in (truly) deterministic dynamical systems

12:30–14:00 *Lunch* (Atrium)

**14:00–15:00 Sourav Chatterjee** (G.10)
*Clay Lecture:* Rigorous results for timelike Liouville field theory

**15:00–16:00 Hong Wang** (G.10)
Kakeya sets in $\mathbb{R}^3$