

**PAD 2025 program**  
Fry Building, Woodland Road

**Wednesday, 9<sup>th</sup> 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, 10<sup>th</sup> 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)  
Metrics on non-simple conformal loop ensemble gaskets  
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, 11<sup>th</sup> 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 equidistribution 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  $\mathbb{R}^3$