



UNIVERSITY OF
CAMBRIDGE

Oxbridge PDE Conference Programme
Centre for Mathematical Sciences, Cambridge
24 & 25 April 2025

Thursday 24 April 2025 – CMS Meeting Room 9

11:30	Registration and Coffee
11:40	Opening Remarks (<i>Prof Gui-Qiang Chen, Prof Clément Mouhot</i>)
11:45 - 12:45	Prof Qian Wang (Oxford) <i>On global dynamics of $3D$ irrotational compressible fluids</i>
12:45 - 13:15	Amelie Loher (Cambridge) <i>Decay estimates for weak solutions of the Boltzmann equation</i>
13:15 - 14:15	Lunch
14:30 – 15:30	Prof Mahir Hadzic <i>On quantitative gravitational relaxation</i>
15:30 – 16:00	Christopher Wright (Oxford) <i>A gradient flow for free boundary minimal surfaces</i>
16:00 - 16:15	Refreshments
16:15 – 17:00	Dr Jacub Skrzeczkowski (Oxford) <i>Nonlocal-to-local limits in physics, biology and numerical analysis</i>
17:00 – 18:00	Dr Hyangdong Park <i>Shocks and Contact discontinuities for Flows with Nonzero Vorticity</i>
19:30	Dinner @ Robinson College



Friday 25 April 2025 – CMS Meeting Room 9

08:45	Coffee and tea available
09:00 – 09:45	Dr Rita Teixeira da Costa (Cambridge) <i>Mode stability for wave equations on black hole spacetimes</i>
09:45 – 10:45	Prof Clement Mouhot <i>Gehring's lemma, old and new</i>
10:45 - 11:00	Refreshments
11:00 – 12:00	Dr Nikos Katzourakis <i>Local minimisers in higher order Calculus of Variations in L^∞: existence, uniqueness and characterisation</i>
12:00 – 12:15	Group Photograph
12:15 – 13:15	Lunch
13:15 – 13:45	Yifan Jiang (Oxford) <i>Path-dependent PDEs arising from the adapted Wasserstein distance</i>
13:45 – 14:45	Dr Zoe Wyatt (Cambridge) <i>A new phase transition in cosmological fluid dynamics</i>
14:45	Concluding Remarks (<i>Prof Gui-Qiang Chen, Prof Clément Mouhot</i>)