

Compressible Convection Conference 2019, Newcastle University

Talks in Lecture Theatre G.05 Percy Building

Registration/Lunch/Coffee break/Posters in room G.09 Percy Building

Monday 02/09	Tuesday 03/09	Wednesday 04/09	Thursday 05/09	Friday 06/09
	9:30-10:30: Chris Jones	9:30-10: Laura Scott 10-10:30: Tim Cunningham	9:30-10:30: Laura Currie	9:30-10: Philipp Edelmann 10-10:30: Radostin Simatev
	10:30-11: Coffee	10:30-11: Coffee	10:30-11: Coffee	10:30-11: Coffee
	11-11:30: Kumiko Hori 11:30-12: Daniel Lecoanet 12-12:30: Thierry Alboussière	11-11:30: Dimitar Vlaykov 11:30-12: Petri Käpylä	11-11:30: Evan Anders 11:30-12: Loren Held 12-12:30: Craig Duguid	11-11:30: Christina Pontin 11:30-12: Krzysztof Mizerski
12-1:50: Registration & Lunch	12:30-2:30: Lunch	12: Packed lunch	12:30-2:30: Lunch	12: Lunch
1:50-2: Introduction 2-3: Ann Almgren 3-3:30: Andrew Clarke 3:30-4: Michael Zingale	2:30-3: Yue-Kin Tsang 3-3:30: Colin Hardy 3:30-4: Fryderyk Wilczynski	Excursion to Alnwick 1:30: Pick-up from Hancock layby 2:30: Drop-off at Alnwick	2:30-3: John Bell 3-3:30: Jonathan Thurgood 3:30-4: Miroslav Mocar	
4-5: Posters & coffee/tea/cakes	4-5: Posters & coffee/tea/cakes	7: Conference Dinner at the Treehouse 10: Pick-up from Alnwick 11: Drop-off on campus	4-5: Posters & coffee/tea/cakes	

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Monday 2nd September

- 12-1:50: *Registration & lunch*
- 1:50-2: Welcome & Introduction
- 2-3: (Invited talk) Ann Almgren (Lawrence Berkeley National Laboratory) "Low Mach Number Modeling"
- 3-3:30: Andrew Clarke (Leeds) "Parallel in time integration of dynamo simulations"
- 3:30-4: Michael Zingale (Stony Brook) "MAESTROeX: applications and future developments"
- 4-5: *Poster & coffee/tea/cakes*

Tuesday 3rd September

- 9:30-10:30: (Invited talk) Chris Jones (Leeds) "Fully developed anelastic convection in a plane layer"
- 10:30-11: *Coffee break*
- 11-11:30: Kumiko Hori (Kobe/Leeds) "Anelastic torsional oscillations in Jupiter's metallic hydrogen region"
- 11:30-12: Daniel Lecoanet (Princeton) TBD
- 12-12:30: Thierry Alboussière (Lyon) "Compressible convection experiments, present and future"
- 12:30-2:30: *Lunch*
- 2:30-3: Yue-Kin Tsang (Leeds) "Spectra of magnetic energy and secular variation in a dynamo model of Jupiter"
- 3-3:30: Colin Hardy (Leeds) "Constraining the magnetic field throughout Earth's core"
- 3:30-4: Fryderyk Wilczynski (Leeds) "Convective motions in the scrape-off layer of magnetically confined plasmas"
- 4-5: *Poster & coffee/tea/cakes*

Wednesday 4th September

- 9:30-10: Laura Scott (Keele) "Convective boundary structure, evolution and mixing: New insight from 3D simulations"
- 10-10:30: Tim Cunningham (Warwick) "Convective overshoot in white dwarf atmospheres"
- 10:30-11: *Coffee break*
- 11-11:30: Dimitar Vlaykov (Exeter) "Statistics of convective boundary mixing in sun-like stellar interiors"
- 11:30-12: Petri Käpylä (Gottingen) "Overshooting in simulations of compressible convection"
- 12: *Packed lunch*
- *Afternoon: Excursion to Alnwick Castle and Gardens*
 - o 1:30: *Pick-up from Hancock layby*
 - o 2:30: *Drop-off at Alnwick*

- o 7: *Conference Dinner at the Treehouse*
- o 10: *Pick-up from Alnwick*
- o 11: *Drop-off on campus*

Thursday 5th September

- 9:30-10:30: (Invited talk) Laura Currie (Exeter) "Stratification effects in anelastic convection"
- 10:30-11: *Coffee break*
- 11-11:30: Evan Anders (Boulder) "Entropy Rain: Dilution and Compression of Turbulent Thermals in Stratified Domains"
- 11:30-12: Loren Held (Cambridge) "Hydrodynamic Convection in Astrophysical Disks"
- 12-12:30: Craig Duguid (Leeds) "Tidal flows and convection: Frequency dependence of the effective viscosity and evidence for anti-dissipation"
- 12:30-2:30: *Lunch*
- 2:30-3: John Bell (Lawrence Berkeley National Laboratory) "Advection in Mesoscale Fluid Mechanics"
- 3-3:30: Jonathan Thurgood (Newcastle) "A Hamiltonian approach to low Mach number flow"
- 3:30-4: Miroslav Mocak (NESS KDC) "Analysis framework for 3D multi-fluid compressible hydrodynamic simulations"
- 4-5: *Poster & coffee/tea/cakes*

Friday 6th September

- 9:30-10: Philipp Edelmann (Newcastle) "Core convection and internal gravity waves in massive stars"
- 10-10:30: Radostin Simitev (Glasgow) "Baroclinically-driven flows and dynamo action in rotating spherical fluid shells"
- 10:30-11: *Coffee break*
- 11-11:30: Christina Pontin (Leeds) "Wave propagation and tidal dissipation in giant planets containing regions of layered semi-convection"
- 11:30-12: Krzysztof Mizerski (Polish Academy of Sciences) "Fully developed anelastic convection with viscous dissipation in the bulk"
- 12: *Lunch*

Posters

- Robert Cooper (Newcastle) "Subcritical Cartesian convection driven dynamos at low Ekman number"
- Alex Hindle (Newcastle) TBD
- Stephen Mason (Newcastle) "Rotating Spherical Magnetoconvection"
- Ben McDermott (Cambridge) "The helicity characteristics and induced emf of magnetic-Coriolis wave packets"
- Janet Peifer (Leeds) "Numerical and experimental modeling of rotating convection with two phases"