



The Leverhulme Trust

Leverhulme Workshop (1 - 9 September 2015) AOPP Dobson Room - Programme

Day 1, Tuesday 1st September 2015

Stratified and Rotating Flows

09:15	10:00	Registration	
10:00	10:15	Peter Read	Introductory Remarks
10:15	11:00	Andrea Maffioli	Mixing efficiency in stratified turbulence
11:30	12:00	<i>Coffee Break</i>	
12:00	12:45	Jim Riley	On the dynamics of turbulent/non-turbulent interfaces in stably-stratified fluids
13:00	14:00	<i>Lunch</i>	
14:00	14:45	Geert Brethouwer	Recurring instabilities and turbulent bursts in rotating channel flow
15:15	16:00	Pierre Augier	Can we study strongly stratified turbulence in a laboratory experiment
16:00	16:30	<i>Coffee Break</i>	

Day 2, Wednesday 2nd September 2015

Planets/Zonal flows

09:15	10:00	Raymond Pierrehumbert	Mathematical foundations of the Weak Temperature Gradient approximation as applied to slow-rotators
10:15	11:00	Michael McIntyre	Jupiter's unearthy jets: quo vadis?
11:30	12:00	<i>Coffee Break</i>	
12:00	12:45	Roland Young	Jupiter's jets, turbulence, and cloud dynamics from simulations and observations
13:00	14:00	<i>Lunch</i>	
14:00	14:45	Timothy Dowling	Q vs. B on Earth and Mars
15:15	16:00	Boris Galperin	Westward jets and eddies in nature and in a laboratory
16:00	16:30	<i>Coffee Break</i>	

Day 3, Thursday 3rd September 2015

MHD/Astrophys

09:15	10:00	David Hughes	Large Scale Vortices in Rotating Convection: their formation and their dynamo action
10:15	11:00	TBC	TBC
11:30	12:00	<i>Coffee Break</i>	
12:00	12:45	James Cho	Turbulent Flows of Ionised Planetary Atmospheres
13:00	14:00	<i>Lunch</i>	
14:00	14:45	Alexander Schekochihin	Stratified turbulence in galaxy clusters
15:15	16:00	Vladimir Zeitlin	Magneto-geostrophic adjustment
16:00	16:30	<i>Coffee Break</i>	

Day 4, Friday 4th September 2015

Oceans/Waves

09:15	10:00	Victor Shrira	On interplay of waves and turbulence in the oceanic mixed layer
10:15	11:00	Jacques Vanneste	Interactions between near-inertial waves and mesoscale motion in the ocean
11:30	12:00	<i>Coffee Break</i>	
12:00	12:45	David Marshall	A simple model of ocean eddy saturation
13:00	14:00	<i>Lunch</i>	
14:00	14:45	Paul Linden	Stratified shear flow in an inclined duct: measurements of velocity and scalar fields
15:15	16:00	Stephen Belcher	The Diurnal Cycle of the Ocean Surface Boundary Layer
16:00	16:30	<i>Coffee Break</i>	

Day 5, Monday 7th September 2015

Working groups convene for small group discussions on joint research and grant proposals

Day 6, Tuesday 8th September 2015

Presentations/updates from the small working groups to all network members.

Day 7, Wednesday 9th September 2015

Working groups reconvene for small group discussions - close at 12.00