



Thursday June 5

9:30-10:00 Registration/set-up posters

10:00-10:30 Tea/coffee/posters

Session Chair **Valery Nakariakov**

10:30-10:45 **Alan Hood** “*Flux emergence and the formation of sigmoids*”

10:45-11:00 **Eun-jin Kim** “*Time variability of the magnetised solar tachocline*”

11:00-11:15 **Sergei Molokov** “*Modes of interfacial instability in aluminium reduction cells*”

11:15-11:30 **Tom Van Doorselaere**, “*first spectroscopic detection of a kink MHD oscillation of a solar coronal structure*”

11:30-11:45 **Roddy Vann** “*Modelling observations of mode polarisation from MAST*”

11:45-12:00 **Nicolas Bian** “*Mixing of Alfvén wave packets*”

12:00-12:15 **Vincent Dousset** “*Flow past a circular cylinder in a rectangular duct at low magnetic Reynolds number*”

12:15-12:30 **Gunnar Hornig** “*Magnetic braiding and the onset of reconnection*”

12:30-2:00 Lunch

Session Chair **Lara Silvers**

2:00-2:15 **Anthony Yeates** “*A prominence puzzle explained?*”

2:15-2:30 **Erwin Verwichte** “*Damping of slow MHD coronal loop oscillations by shocks*”

2:30-2:45 **Mark Rosin** “*Dynamics of the firehose instability*”

2:45-3:00 **Vitali Dymkou** “*DNS of MHD turbulence based on the least dissipative modes*”

3:00-3:15 **Radostin Simitev** “*A hysteresis phenomenon in dipolar dynamos generated by turbulent convection in rotating spherical shells*”

3:15-4:00 Tea/coffee/posters

Session Chair **Tony Arber**

4:00-4:15 **Valentina Zharkova** “*Simultaneous microwave and X-ray emission from accelerated electrons in solar flares*”

4:15-4:30 **Andrew Haynes** “*Magnetic skeletons and reconnection in the solar corona*”

4:30-4:45 **Taras Siversky** “*PIC simulation of particle acceleration in a reconnecting current sheet*”

4:45-5:00 **Tarek A Yousef** “*Mean-field dynamo in nonhelical turbulence with a superimposed linear shear*”

5:15 UK MHD HPC Consortium Meeting

7:30 Conference Dinner

Friday June 6

Session Chair **Andrew Gilbert**

9:15-9:30 **Kirill Kuzanyan** “*Onset of compressible convection in fast rotating limit: asymptotics versus numerics*”

9:30-9:45 **David Pascoe** “*Sausage oscillations in loops with a non-uniform cross-section*”

9:45-10:00 **Rico Klein** “*Experiment on MHD Turbulence at low magnetic Reynolds number*”

10:00-10:15 **James McLaughlin** “*Nonlinear fast magnetoacoustic wave propagation in the neighbourhood of a 2D magnetic X-point*”

10:15-10:30 **Arjun Berera** “*Gauge Symmetry and Slavnov-Taylor Identities for Randomly Stirred Fluids*”



10:30-11:15 Tea/coffee/posters

Session Chair **Evy Kersalé**

11:15-11:30 **Philippa Browning** “Numerical simulations of solar coronal heating due to nonlinear kink instability”

11:30-11:45 **Toby Wood** “A family of solutions for the field configuration in the polar regions of the convection zone”

11:45-12:00 **Richard Morton** “Solar magneto-seismology: Flux tubes with elliptical cross-sections”

12:00-12:15 **Andrew Inglis** “Quasi-periodic pulsations in solar flare emission”

12:15-12:30 **Michelle Murray** “Simulations of Flux Emergence within Coronal Holes: Fast Outflows and Slow Waves”

12:30-2:00 Lunch

Session Chair **Paul Bushby**

2:00-2:15 **Anna Bradley** “Driven X-point reconnection with the electron inertia”

2:15-2:30 **Gert Botha** “Flows around magnetic flux tubes”

2:30-2:45 **Nicholas Owen** “The propagation and damping of slow mode MHD waves in the solar atmosphere”

2:45-3:00 **Nicolas Leprévost** “Dynamo quenching due to velocity shear”

3:00-3:15 **Oleg Andreev** “An experiment on the shaping of a liquid metal drop in an AC magnetic field”

3:15-3:30 **Nasser Al-Salti** “On the current structure of 3D reconnection”

3:30-3:45 **Mahboub Hosseinpour** “Scaling of the two-fluid model of magnetic field reconnection in viscous plasma driven by tearing instability”

3:45-4:15 Tea/coffee/Informal Discussions; End of meeting (4:15pm)

All talks will be 15 minutes (12 minutes talk, + 3 minutes questions and change over time).

Posters

Chris Wareing “Magnetic field decay via Hall drift in the crusts of neutron stars”

Alex Pedcenko “Experimental studies of interfacial instability in aluminium reduction cells”

Rhona Maclean “Magnetic null points in solar emerging flux”

David Moss “Dynamo theory and the parity of stellar magnetic fields”

Johan Anderson “The role of magnetic shear for zonal flow generation”

Svetlana Aleksandrova “Linear stability of Hunt's jets”

Phil Smith “Two-fluid (ion-neutral) simulation of coalescence of inclined flux tubes”

Andrew Newton “Effect of oscillatory shear flows on turbulence”

Andrew Baggaley “The Flux Rope Dynamo”

Jamie Douglas “Predictive modelling of anomalous transport”