

PROGRAMME

Monday: Solar system, Planetary dynamics, Debris discs

09:15-09:30	Welcome
09:30-10:00	Charles Gammie <i>Magnetic Fields and the Origin of the Moon</i>
10:00-10:30	Scott Tremaine <i>Comets, unseen planets, and the outer fringes of the solar system</i>
10:30-11:00	Coffee break
11:00-11:30	Carl Murray <i>Cassini observations of dynamical phenomena in Saturn's rings</i>
11:30-12:00	Daniel Fabrycky <i>Planet-Planet scattering</i>
12:00-12:30	Jean Teyssandier <i>Formation of hot Jupiters via secular chaos and dynamical tides</i>
12:30-14:00	Lunch
14:00-14:30	Ewa Szuszkiewicz <i>On the formation and evolution of the mean-motion resonances in planetary systems</i>
14:30-15:00	John Papaloizou <i>Non conservative effects and multi-planet resonant chains</i>
15:00-15:30	Gavin Coleman <i>Comparison of Planetesimal and Pebble accretion models in forming Trappist-1</i>
15:30-16:00	Coffee break
16:00-16:30	Anne-Marie Lagrange <i>Disks and planets: an observer's point of view</i>
16:30-17:00	Jean-Charles Augereau <i>Exozodiacal dust: properties and origin</i>

Tuesday: Protostellar discs, disc-planet interactions, circumbinary discs

09:00-09:30	
09:30-10:00	Chris McKee <i>How do protostellar disks form in the presence of magnetic fields?</i>
10:00-10:30	Cathie Clarke <i>New results in disc photoevaporation</i>
10:30-11:00	Coffee break
11:00-11:30	Min-Kai Lin <i>Dust-free modeling of dusty protoplanetary discs</i>
11:30-12:00	Geoffroy Lesur <i>The dynamics of protoplanetary discs: a dusty story</i>
12:00-12:30	Clément Baruteau <i>Disc-planet interactions and the diversity of period ratios in Kepler's multi-planetary systems</i>
12:30-14:00	Lunch
14:00-14:30	Sijme-Jan Paardekooper <i>Migration of low-mass planets in accreting discs</i>
14:30-15:00	Aurélien Crida <i>New insight on type II migration</i>
15:00-15:30	Zoe Leinhardt <i>Collisions and Compositional Evolution during Rocky Planet Accretion</i>
15:30-16:00	Coffee break
16:00-16:30	Richard Nelson <i>Orbital evolution of circumbinary planets in circumbinary discs</i>
16:30-17:00	Willy Kley <i>Dynamics of circumbinary disks</i>
17:00-17:30	Caroline Terquem <i>Cavity and inner edge of circumbinary discs</i>

Wednesday: The MRI, Plasmas, Galactic and AGN discs

09:00-09:30	Alexander Schekochihin <i>Ion vs. electron heating by turbulence: an accretion-disc problem that opened the door to plasma physics</i>
09:30-10:00	Tobias Heinemann <i>The MRI in a collisionless plasma</i>
10:00-10:30	James Stone <i>Dissipation, heating, and reconnection in MRI turbulence</i>
10:30-11:00	Coffee break
11:00-11:30	James Binney <i>The dynamical evolution of stellar discs</i>
11:30-12:00	Jerry Sellwood <i>Transient spiral modes in galaxies</i>
12:00-12:30	Doug Lin <i>Making gravitational waves in AGN disks</i>
12:30	Free afternoon

Thursday: Disc dynamics

09:00-09:30	
09:30-10:00	Rebecca Nealon <i>Misaligned black hole accretion flows</i>
10:00-10:30	Gordon Ogilvie <i>Dynamics of warped astrophysical discs in the local and affine models</i>
10:30-11:00	Coffee break
11:00-11:30	John Hawley <i>Tilted Disks around Black Holes: Investigating the Alignment Mechanism</i>
11:30-12:00	Pavel Ivanov <i>A twisted accretion disc formed after tidal disruption of a star by a rotating black hole</i>
12:00-12:30	Steven Balbus <i>Tidal disruption events and the evolution of Kerr discs</i>
12:30-14:00	Lunch
14:00-14:30	Janosz Dewberry <i>Large scale magnetic fields, diskoseismic modes and quasi-periodic oscillations in relativistic accretion discs</i>
14:30-15:00	Will Potter <i>Understanding Disc Instabilities in Black Hole X-ray Binaries</i>
15:00-15:30	Henrik Latter <i>Gravitoturbulent and MRI dynamos in accretion disks</i>
15:30-16:00	Coffee break
16:00-16:30	Nicolas Scepi <i>MRI in accretion disks of dwarf novae</i>
16:30-17:00	Jérôme Guilet <i>Magnetorotational instability in neutron stars and disks</i>
17:00-17:30	Roman Rafikov <i>Boundary Layers of Astrophysical Accretion Discs</i>

Friday: Inside stars and planets

09:00-09:30	Hanno Rein <i>N-body simulations of planetary systems (or: How to avoid MHD simulations while doing a PhD with John)</i>
09:30-10:00	Sam Falle <i>Detonation Waves in Type Ia Supernovae</i>
10:00-10:30	Michael McIntyre <i>The solar tachocline: a big open question</i>
10:30-11:00	Coffee break
11:00-11:30	Cleo Loi <i>Magnetic fields and stellar oscillations</i>
11:30-12:00	Sergey Chernov <i>Dynamic tides in systems containing Hot Jupiters</i>
12:00-12:30	Sébastien Fromang <i>Vertical shear instability in hot Jupiter atmospheres</i>
12:30-14:00	Lunch
14:00	End of Conference

Posters:

Layered semi-convection and tides in giant planet interiors

Quentin André

Stellar oscillations induced by a planetary companion

Andrew Bunting

Secular dynamics of binaries in stellar clusters

Chris Hamilton

Hydrodynamical convection in accretion disks

Loren Held

Magnetic flux transport in protoplanetary discs

Philip Leung

Using a Hamiltonian Formalism to Study Nonlinear Eccentric Disc Modes

Elliot Lynch

The evolution of post tidal disruption event accretion discs

Andrew Mummery

Observational predictions of planetary migration in the dust emission of protoplanetary discs

Gaylor Wafflard-Fernandez