

DiRAC Science Day 2015

Friday 11 September 2015

09:15 – 10:20	Arrival, registration, and poster hanging
09:45 – 10:20	Coffee & tea – sponsored by Hitachi Data Services
10:20 – 12:50	Plenary Session (MR2)
10:20 – 10:30	Professor Ian Leslie (Cambridge) – Welcome
10:30 – 10:50	Jeremy Yates (DiRAC & UCL) – Project Director's report
10:50 – 11:10	Eugene Lim (King's College London) <i>GRCHOMBO: Numerical relativity with adaptive mesh</i>
11:10 – 11:30	Christopher Thomas (Cambridge) <i>Excited hadron spectroscopy from lattice QCD</i>
11:30 – 11:50	Hossam Aly (Leicester) <i>Supermassive black hole binaries and gas disc interactions</i>
11:50 – 12:10	Simon Hands (Swansea) <i>QCD matter under extreme conditions</i>
12:10 – 12:30	Alan Hood (St Andrew's) <i>Some current science problems in solar physics</i>
12:30 – 12:50	Till Sawala (Durham) <i>Local group galaxies emerge from the dark</i>
12:50 – 14:00	Lunch (CMS core) – sponsored by OCF
14:00 – 16:00	Science Parallel Session (MR2)
14:00 – 14:15	Nicolas Garron (Plymouth) <i>Kaon physics, in the Standard Model and beyond, from Lattice QCD</i>
14:15 – 14:30	Pablo Loren-Aguilar (Exeter) <i>Toroidal vortices and the conglomeration of dust into rings in protoplanetary discs</i>
14:30 – 14:45	Biagio Lucini (Swansea) <i>Lattice gauge theory beyond the standard model: electroweak symmetry breaking and dark matter</i>
14:45 – 15:00	Chiaki Kobayashi (Hertfordshire) <i>Chemodynamical simulations of galaxies</i>
15:00 – 15:15	Shaoran Hu (Cambridge) <i>Stellar spiral structures in triaxial dark matter haloes</i>
15:15 – 15:30	Jonna Koponen (Glasgow) <i>Heavy and light: B physics to pions</i>
15:30 – 15:45	Antoine Riols (Cambridge) <i>Gravito-turbulence in protoplanetary disks in the presence of a magnetic field</i>
15:45 – 16:00	Samuel Richard (Queen Mary) <i>The role of the vertical shear instability in vortex formation in protoplanetary discs</i>

14:00 – 16:00	Technical Parallel Session (MR3)
14:00 – 14:15	Christopher Brown (OCF) <i>OCF and OpenStack</i>
14:15 – 14:30	Gabriele Paciucci (Intel) <i>Using Lustre and Intel NVM to burst I/O</i>
14:30 – 14:45	Stuart Day (Hitachi Data Systems) <i>Research data management</i>
14:45 – 15:00	James Coomer (DataDirect Networks) <i>Infinite Memory Engine (IME)</i>
15:00 – 15:15	Terry Rush (Seagate) <i>How Seagate is addressing performance challenges in high performance computing</i>
15:15 – 15:30	Patrick Wohlschlegel (Allinea) <i>For beginners and experts – Easy-to-use performance analysis, profiling, and debugging tools</i>
15:30 – 15:45	Mike Woodacre (SGI) <i>Accelerating science through data intensive architectures</i>
15:45 – 16:00	Juha Jäykkä (Cambridge) <i>The Xeon Phi experience</i>
16:00 – 16:15	Matthieu Schaller (Durham) <i>SWIFT: A fast task-based MPI asynchronous cosmological code</i>
16:15 – 17:00	Coffee, tea, refreshments & poster viewing (CMS core) – sponsored by Hitachi Data Services
approx 16:45	Awarding of poster prizes (CMS core) – sponsored by DataDirect Networks
17:00 – 18:00	Drinks reception (CMS core) – sponsored by Seagate

We also thank **Allinea** for sponsoring travel support, **Intel** for sponsoring part of the DiRAC Project Board meeting, and **SGI** for sponsoring travel support and part of the DiRAC Project Board meeting.



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