Strong and Electroweak Matter (SEWM 2012) – Swansea University

Monday July 9

18:00 - 20:00 welcome buffet and registration Fulton House

Tuesday July 10

8:00	Registration	Grove lecture theatre
9:00	Opening	Prof Richard B Davies, Vice-Chancellor of Swansea University
	Chair: Owe Philipsen	
9:15	Maria-Paola Lombardo	Quarkonia in the Quark Gluon Plasma
10:00	Mikko Laine	Heavy quark kinetic and chemical equilibration
10:25	*Coffee break*	Cafe West, Fulton House
	Chair: Cristina Manuel	
11:00	Kenji Fukushima	Extreme QCD matter – Fate of chiral symmetry in strong magnetic fields
11:45	Eduardo Fraga	Chiral transition and deconfinement in the presence of a magnetic background
12:10	Jens Andersen	The chiral transition in a magnetic background - finite density effects
12:35	*Lunch*	Fulton House
	Chair: Guy Moore	
14:00	David Evans	Review of heavy-ion results from the LHC
14:45	Michael Strickland	Anisotropic hydrodynamics
15:10	Anton Rebhan	The (better) fate of nonabelian plasma instabilities in 3+1 dimensions with longitudinal expansion
15:35	Yannis Burnier	Anomaly induced charge dependence of the elliptic flow in heavy ion collisions
16:00	*Tea break*	Cafe West, Fulton House
	Chair: Edwin Laermann	
16:30	Sourendu Gupta	The physics of hot and dense QCD
17:15	Owe Philipsen	Towards hot and dense QCD from first principles
18:00	Wolfgang Unger	2-flavor formulation of strong coupling Lattice QCD
18:25	Kurt Langfeld	O(2) quantum theory at finite densities and the generalised density of states
18:50	End of session	

Wednesday July 11

	Chair: Prem Kumar	
9:00	David Mateos	Strong coupling isotropization simplified
9:45	Michal Heller	Holography for thermalization: transition to hydrodynamics and its features
10:30	*Coffee break*	Cafe West, Fulton House
	Chair: Anton Rebhan	
11:00	Derek Teaney	Dynamical Hawking radiation and holographic thermalization
11:45	Peter Arnold	Coupling dependence of jet quenching in hot strongly-coupled gauge theories
12:10	Aleksi Vuorinen	Holographic photon and dilepton production in a thermalizing plasma
12:35	*Lunch*	Fulton House (IAC lunch in SURF room)
	Chair: Mark Alford	
14:00	Miguel Escobedo	Jet broadening and a gauge invariant jet quenching parameter with Soft-Collinear Effective Theory
14:25	Thomas Schaefer	Continuity of the deconfinement transition in (Super) Yang Mills Theory
14:50	Cristina Manuel	Shear viscosity in a superfluid cold Fermi gas at unitarity
15:15	Francesco Sannino	Composite dynamics for the electroweak theory, Dark Matter and inflation
16:00	*Tea break*	Cafe West, Fulton House

	Chair: Biagio Lucini	
16:30	Kari Rummukainen	Technicolor and the conformal window on the lattice
17:15	Antonio Rago	Non-perturbative investigation of conformality in SU(2) gauge theory with two adjoint fermions
17:40	Philippe de Forcrand	A surprise in the phase diagram of many-flavor staggered fermions
18:05	End of session	
18:30	Poster session	with buffet and drinks, Cafe West, Fulton House
23:00	End of poster session	JC's Bar closes

Thursday July 12

	Chair: Stanislaw Mrowczynski	
9:00	Francois Gelis	The early stages of heavy ion collisions
9:45	Aleksi Kurkela	Thermalization in collisions at extremely high energies
10:30	*Coffee break*	Cafe West, Fulton House
	Chair: Peter Arnold	
11:00	Guy Moore	Gauge field evolution at high occupancy
11:25	Denes Sexty	Bose condensation far from equilibrium
11:50	Mark Alford	High amplitude oscillations in dense matter
12:35	*Lunch*	Fulton House
	Chair: Thomas Schaefer	
14:00	Andreas Schmitt	Superfluid components in color-flavor locked quark matter
14:25	Toru Kojo	Interweaving chiral spirals
15:50	Jean-Francois Laporte	Latest LHC results
15:35	*Tea break*	Cafe West, Fulton House
	Chair: Simon Hands	
16:00	Prof Peter Higgs	My life as a boson
17:00	End of session	
17:30	Excursion Oxwich Bay	Departure in front of Fulton House
19:00	Banquet	Oxwich Bay Hotel

Friday July 13

	Chair: Maurizio Piai	
9:00	Marco Cirelli	Direct and indirect searches for Dark Matter: status and perspectives
9:45	Stephan Huber	Electroweak baryogenesis
10:30	*Coffee break*	Cafe West, Fulton House
	Chair: Kari Rummukainen	
11:00	Anders Tranberg	Cold Electroweak Baryogenesis with two Higgses
11:25	Paul Saffin	Low-cost dynamical fermions and electroweak baryogenesis
11:50	Arttu Rajantie	Cosmological perturbations from non-equilibrium quantum fields
12:35	*Lunch*	Fulton House
	Chair: Michael Schmidt	
14:00	Julien Serreau	Effective potential for quantum scalar fields on a de Sitter geometry
14:25	Mathias Garny	Towards a quantum treatment of leptogenesis
14:50	Matti Herranen	Transport theory of resonant Leptogenesis from nonequilibrium QFT
15:15	Clancy James	Results from the ANTARES underwater neutrino telescope
15:40	*Tea break*	Cafe West, Fulton House
	Chair: Mikko Laine	
16:10	Daniil Gelfand	Preheating with fermions
16:35	Mark York	3-loop 3PI effective action for 3D QCD
17:00	Margaret Carrington	Preliminary results from the 4PI effective action
17:25	Closing and farewell	End of Conference