

STRONG AND ELECTROWEAK MATTER 2014: PROGRAM



Monday July 14, 2014

Time

16:30	Registration opens	Rolex Learning Center
17:00	Welcome reception	Rolex Learning Center
19:00	Public lecture by Peter Jenni	Lecture hall CE6

Tuesday July 15, 2014

Time

EPFL - lecture hall CE6

Institution

08:30	Registration opens	
09:30	Welcome	
09:45	Federico Antinori - Results from the LHC heavy ion programme - overview	INFN, Padova
10:30	Coffee break	
11:00	Laurence G. Yaffe - Numerical holography and far-from-equilibrium dynamics	Univ. of Washington & Regensburg
11:45	Sören Schlichting - Thermalization process in weakly coupled field theories far-from equilibrium	Brookhaven National Lab, Upton
12:30	Lunch	
13:45	Peter Arnold - Relating Classical Strings and Gravitons in AdS/CFT jet quenching	University of Virginia, Charlottesville
14:05	Dionysios Triantafyllopoulos - Running coupling effects in the evolution of jet quenching	ECT, FBK, Trento
14:25	Krishna Rajagopal - A Hybrid Strong/Weak Coupling Approach to Jet Quenching in Strongly Coupled Plasma	MIT, Cambridge, MA
14:45	Kari Rummukainen - Jet quenching with EQCD	University of Helsinki
15:05	Mikhail Stephanov - Chiral Kinetic Theory	University of Illinois, Chicago
15:25	Coffee break	
16:00	Cristina Manuel - Chiral transport equation from the quantum Dirac Hamiltonian and the on-shell effective field theory	IEEC-CSIC, Barcelona
16:20	Andreas Schmitt - Sound modes and two-stream instability in a relativistic superfluid	Vienna University of Technology
16:40	Aleksi Vuorinen - Constraining neutron star properties with QCD	University of Helsinki
17:00	Kai Schwenzer - Seeing into a compact star using precise radio pulsar data	Washington University, St-Louis
17:20	Stefan Stricker - Holographic thermalization at intermediate coupling	Vienna University of Technology
17:40	Aleksi Kurkela - Bottom-up thermalization in heavy-ion collisions	CERN, Genève

Wednesday July 16, 2014

Time

EPFL - Lecture hall CE6

Institution

09:00	Jean-Paul Blaizot - Jets in medium	CEA, Saclay
09:45	Thomas Schäfer - Lessons from the unitary Fermi gas for strongly coupled fluids	North Carolina State University
10:30	Coffee break	
11:00	Denes Sexty - Progress in finite density lattice QCD (tentative)	Heidelberg University
11:45	Lunch	
12:45	Excursions	
19:30	Group photo - On a pier in Ouchy	
19:45	Dinner - On a boat departing from Ouchy	

Time	EPFL - Lecture hall CE6	Institution
09:00	Julien Lesgourgues - Planck and Particle Physics	<i>Université Anancy, CERN, EPFL</i>
09:45	Kari Enqvist - Decay of the Higgs and other spectators after inflation	<i>University of Helsinki</i>
10:30	Coffee break	
11:00	Mark Hindmarsh - Gravitational waves from phase transitions in the early universe	<i>University of Sussex</i>
11:45	Sacha Davidson - Leptogenesis	<i>IPNL, Lyon</i>
12:30	Lunch	
Paralell Session Lecture halls CE6, CE1100, CE1101		
Cosmology CE6 External magnetic fields CE1100 Theoretical developments CE1101		
13:45	Shintaro Eijima - <i>EPFL, Lausanne</i> Lepton asymmetry production in the nuMSM	Mei Huang - <i>IHEP, CAS, Beijing</i> Spontaneous generation of local CP violation and inverse magnetic catalysis
14:05	Alexander Kartavtsev - <i>MPI, Munich</i> Leptogenesis in runaway and crossing regimes	Claudio Bonati - <i>INFN, Pisa</i> Properties of strong interactions in strong magnetic fields
14:25	Kohei Kamada - <i>EPFL, Lausanne</i> Imprints of cosmic strings in late-time scaling scenario	William Naylor - <i>NTNU, Trondheim</i> The Polyakov loop extended quark meson model at finite μ and B
14:45	Kyohei Mukaida - <i>University of Tokyo</i> Dynamics of Peccei-Quinn Scalar Revisited	Florian Preis - <i>Vienna University of Technology</i> Nuclear matter in strong magnetic fields
15:05	Masahiro Takimoto - <i>University of Tokyo</i> Correspondence of I- and Q-balls as Non-relativistic Condensates	Tomoya Hayata - <i>University of Tokyo</i> Temporal Chiral Spiral in Strong Magnetic Fields
15:25	Coffee break	
Paralell Session Lecture halls CE6 CE1100, CE1101		
Lattice CE6 Phenomenology CE1100 Theoretical developments CE1101		
16:00	Seyong Kim - <i>Sejong University Seoul</i> Bottomonium in thermal medium from NRQCD on $N_f = 2+1$ light flavors lattices	Edmond Iancu - <i>IPHT Saclay, Gif-sur-Yvette</i> The non-linear evolution of jet quenching
16:20	Alexander Rothkopf - <i>Heidelberg University</i> The heavy quark potential at finite temperature from quenched and dynamical lattice QCD	Krzysztof Kutak - <i>IFJ, Krakow</i> Non-linear evolution of unintegrated gluon density at large values of coupling constant
16:40	Olaf Kaczmarek - <i>University of Bielefeld</i> Continuum results of the heavy quark momentum diffusion coefficient from Lattice QCD	Akihiko Monnai - <i>RIKEN BNL, Upton</i> Thermal photons from chemically non-equilibrated QCD medium
17:00	Francesco Negro - <i>INFN, Pisa</i> The QCD critical line at finite chemical potentials	Andreas Windisch - <i>University of Graz</i> No admittance under 4: Four-fermion condensation in strongly interacting dense matter
17:20	Joyce Myers - <i>Niels Bohr Instit., Copenhagen</i> Calculating the chiral condensate diagrammatically at strong coupling	Kiyomars Sohrabi - <i>Universität Bern</i> Chiral Vortical Effect in Relativistic Hydrodynamics
POSTER SESSION		
17:40	Loredana Bellantuono, Igor Bogolubsky, Frederic Brünner, Yannis Burnier, Ioan Ghisoiu, Gergely Fejos, Sadataka Furui, Mauricio Hippert Teixeira, Andreas Hohenegger, Chris Korthals Altes, Daniel Kroff Fogaça, Gergely Marko, Peter Mati, Mathias Neuman, Andrés Patkós, Chrisanthi Praki, Anton Rebhan, Javier Rubio, Andréas Tresmontant, Helvio Vairinhos.	

Friday July 18, 2014

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Time	EPFL - lecture hall CE6	Institution
09:15	Jose Ramon Espinosa - Stability of the Electroweak Vacuum in Light of LHC Data	<i>ICREA/IFAE, Barcelona</i>
10:00	Oleg Ruchayskiy - Quest for new physics driven by experiment and simplicity	<i>EPFL, Lausanne</i>
10:30	Coffee break	
11:00	Gordon W. Semenoff - Lessons from graphene for relativistic field theory	<i>University of British Columbia</i>
11:45	Dam T. Son - Spacetime symmetries in quantum Hall physics	<i>University of Chicago</i>
12:30	Lunch	
13:45	Gert Aarts - Complex actions, complex Langevin and Lefschetz thimbles	<i>Swansea University</i>
14:05	Szabolcs Borsanyi - Lattice QCD: from the Hadron Gas to Hard Thermal Loops	<i>Bergische Universität Wuppertal</i>
14:25	York Schröder - QCD thermodynamics at three loops	<i>Universidad del Bio-Bio, Chillan</i>
14:45	Angel Gomez Nicola - Chiral Symmetry Restoration: partners and patterns	<i>Universidad Complutense, Madrid</i>
15:05	Miguel Angel Escobedo Espinosa - Effective field theories for non-relativistic particles in a medium: Application to quarkonium and Majorana neutrinos	<i>Technische Universität München</i>
15:25	Coffee break	
16:00	Edward Shuryak - The sounds of the Little Bang and the smallest drops of QGP	<i>Stony Brook University, New York</i>
16:20	Katarzyna Deja - Plasmons in Anisotropic Quark-Gluon Plasma	<i>NCBJ, Warsaw</i>
16:40	David Weir - Gravitational waves from bubble collisions: simulations and approximations	<i>University of Helsinki</i>
17:00	Oscar Akerlund - Electro-weak stability in the presence of higher dimension operators in the Higgs sector	<i>ETH, Zurich</i>
17:20	Anders Tranberg - Quantum corrections to scalar field dynamics during inflation	<i>University of Stavanger, Norway</i>
17:40	Adjourn	