

Strong and Electroweak Matter 2016

Monday, 11 July 2016 - Friday, 15 July 2016

University of Stavanger
Programme

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Monday 11 July 2016

Lunch - Aula (12:30-13:25)

Welcome: Welcome - G-001 (13:25-13:30)

Plenary - G-001 (13:30-15:30)

-Conveners: Tomas Brauner

time [id] title

presenter

13:30	[65] Overview of ATLAS & CMS: Experiments, Techniques, and Results	PETERSEN, Troels
14:30	[66] Recent results from the LHC heavy ion programme	ROHRICH, Dieter

Coffee - Aula (15:30-16:00)

Plenary - G-001 (16:00-17:45)

-Conveners: Tomas Brauner

time [id] title

presenter

16:00	[68] Recent results on lattice QCD thermodynamics	RATTI, Claudia
17:00	[58] Probes of the Electroweak Phase Transition and Baryogenesis at the LHC	NO, Jose Miguel

Tuesday 12 July 2016

Plenary - G-001 (09:00-10:30)

-Conveners: Mikhail Shaposhnikov

time	[id] title	presenter
09:00	[61] Geometric picture for scattering amplitudes	TRNKA, Jaroslav
09:45	[62] Electroweak baryogenesis from dynamical CKM matrix	SERVANT, Geraldine

Coffee - Aula (10:30-11:00)

Plenary - G-001 (11:00-12:30)

-Conveners: Mikhail Shaposhnikov

time	[id] title	presenter
11:00	[63] The first Fermi of a Heavy-Ion Collision: results, puzzles, and opportunities	VENUGOPALAN, Raju
11:45	[64] Vacuum stability and early universe physics	NURMI, Sami

Lunch - Aula (12:30-13:30)

Parallel Track 1 - Ø-110 (13:30-15:30)

-Conveners: Dietrich Bödeker

time	[id] title	presenter
13:30	[38] Dijet production as a probe of dense partonic system	KUTAK, Krzysztof
14:00	[22] Event-by-event picture for the medium-induced jet evolution	Dr. IANCU, Edmond
14:30	[19] Energy Loss in Unstable Quark-Gluon Plasma	MROWCZYNSKI, Stanislaw
15:00	[10] Thermal contributions to the soft dijet function	TYWONIUK, Konrad

Parallel Track 2 - Ø-120 (13:30-15:30)

-Conveners: Anton Rebhan

time	[id] title	presenter
13:30	[35] Semi-holography for heavy ion collisions	Mr. PREIS, Florian
14:00	[24] Monitoring shock wave collisions with non local observables	STRICKER, Stefan
14:30	[41] Collisions in Non-conformal Theories: Hydrodynamization without Equilibration	ATTEMS, maximilian
15:00	[17] Thermalization of Schwinger-Keldysh correlation functions in holography	MUKHOPADHYAY, Ayan

Parallel Track 3 - Ø-130 (13:30-15:30)

-Conveners: Julien Serreau

time	[id] title	presenter
13:30	[3] The effects of higher order truncations in the 2PI description of phase transitions	MARKO, Gergely
14:00	[25] Non-equilibrium dynamics of inhomogeneous quantum fields	GARRATT, Thomas

14:30	[30] Renormalization of ϕ^4 -theory in the 2PI Hartree approximation scheme for non-vanishing background field	GROß, Christoph
15:00	[2] Next-to-leading order nPI calculations in scalar theories	CARRINGTON, Margaret

Coffee - Aula (15:30-16:00)

IAC Meeting (IAC members only) (16:00-17:00)

Public talk: Public talk - Frank Wilczek - "Some Intersections of Art and Science" - G-001 (17:00-18:00)

Wednesday 13 July 2016

Plenary - G-001 (09:00-10:45)

-Conveners: Alexander Rothkopf

time	[id] title	presenter
09:00	[7] Effective field theory techniques applied to the hard scales of the plasmas	MANUEL, Cristina
09:45	[67] Axions: The Unfinished Business of QCD	WILCZEK, Frank

Coffee - Aula (10:45-11:15)

Plenary - G-001 (11:15-12:45)

-Conveners: Alexander Rothkopf

time	[id] title	presenter
11:15	[59] EFT and its applications in cosmology	CREMINELLI, Paolo
12:00	[60] Topological transport phenomena in strong and electroweak matter	YAMAMOTO, Naoki

Lunch - Aula (12:45-13:45)

Parallel Track 1 - Ø-110 (13:45-15:45)

-Conveners: Jens Oluf Andersen

time	[id] title	presenter
13:45	[47] Baryons across the deconfinement transition	AARTS, Gert
14:15	[48] Dense 2-colour QCD towards the continuum limit	SKULLERUD, Jon-Ivar
14:45	[50] QCD critical point and thermal photons	MONNAI, Akihiko
15:15	[1] Equation of state of QCD from analytical continuation	PASZTOR, Attila

Parallel Track 2 - Ø-120 (13:45-15:45)

-Conveners: Aleksii Vuorinen

time	[id] title	presenter
13:45	[15] Quantum interference in showering: LPM effect for sequential bremsstrahlung	ARNOLD, Peter
14:15	[32] Perturbative study of the QCD phase diagram for heavy quarks at nonzero chemical potential	SERREAU, Julien
14:45	[28] scale invariant resummed perturbation at finite temperature	KNEUR, Jean-Loic
15:15	[27] Towards a high statistics analysis of quarkonium at $T>0$ using NRQCD on realistic $N_f=2+1$ HISQ lattices	Dr. ROTHKOPF, Alexander

Parallel Track 3 - Ø-130 (13:45-15:45)

-Conveners: Mikko Sakari Laine

time	[id] title	presenter
13:45	[45] Active and sterile neutrino dynamics below the electroweak crossover	GHIGLIERI, Jacopo
14:15	[37] Decay Rate of Right-Handed Neutrinos in Light of Collective Excitations at Electroweak Scale	Dr. MIURA, Kohtaroh

14:45	[9] Leptogenesis and gravity: baryon asymmetry without decays	Mr. MCDONALD, Jamie
15:15	[42] Leptogenesis in GeV seesaw models with large mixing angles	Mr. KLARIC, Juraj

Coffee - Aula (15:45-16:15)

Excursion and dinner (18:00-23:00)

Thursday 14 July 2016

Plenary - G-001 (09:00-10:30)

-Conveners: Jacopo Ghiglieri

time	[id] title	presenter
09:00	[54] Gravitational waves and eLISA	HINDMARSH, Mark
09:45	[55] Jet evolution in dense QCD matter	WU, Bin

Coffee - Aula (10:30-11:00)

Plenary - G-001 (11:00-12:30)

-Conveners: Jacopo Ghiglieri

time	[id] title	presenter
11:00	[56] Leptogenesis	BÖDEKER, Dietrich
11:45	[57] Background magnetic fields and the QCD phase diagram	ENDRODI, Gergely

Lunch - Aula (12:30-13:30)

Parallel Track 1 - Ø-110 (13:30-15:30)

-Conveners: Peter Arnold

time	[id] title	presenter
13:30	[20] Rapid thermal co-annihilation through bound states	LAINE, Mikko
14:00	[40] Standard Model thermodynamics across the electroweak crossover	MEYER, Manuel
14:30	[14] Thermal Gravitino Production due to Bremsstrahlung and Annihilation Processes	Prof. DOAN, Çağlar
15:00	[13] Confinement and Chiral Symmetry Breaking from an ensemble of interacting Instanton-dyons(monopoles) in SU(2) QCD	LARSEN, Rasmus

Parallel Track 2 - Ø-120 (13:30-15:30)

-Conveners: Edmond Iancu

time	[id] title	presenter
13:30	[34] Standard Model vacuum decay and non-minimal coupling.	STOPYRA, Stephen
14:00	[16] Non Perturbative Renormalization Group for scalar fields in de Sitter space	GUILLEUX, Maxime
14:30	[33] Self-consistent solitons for tunneling transitions	Prof. GARBRECHT, Björn
15:00	[26] High temperature non-Abelian chiral instabilities in a lattice effective field theory	Dr. ROTHKOPF, Alexander

Parallel Track 3 - Ø-130 (13:30-15:30)

-Conveners: Gert Aarts

time	[id] title	presenter
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13:30	[18] Study of the chiral phase transition with vector and axial-vector mesons in an extended linear sigma model within the functional renormalization group approach	ESER, Jürgen
14:00	[6] Chiral symmetry restoration from the hadronic regime	GOMEZ NICOLA, Angel
14:30	[31] Complex Langevin Dynamics for a Random Matrix Model of QCD at finite density	Dr. ZAFEIROPOULOS, Savvas
15:00	[46] Symmetry breaking restoration by acceleration	DOBADO GONZALEZ, ANTONIO

Coffee - Aula (15:30-16:00)**Parallel Track 1 - Ø-110 (16:00-18:00)****-Conveners: Jose Miguel No**

time	[id] title	presenter
16:00	[23] Gravitational waves as a probe of the electroweak phase transition	NARDINI, Germano
16:30	[8] Gravitational waves from the phase transition of a nonlinearly realised electroweak symmetry	YUE, Jason Tsz Shing
17:00	[70] Analytic gravitational wave spectrum from bubble collisions	TAKIMOTO, Masahiro
17:30	[69] Simulating a first-order electroweak phase transition	WEIR, David

Parallel Track 2 - Ø-120 (16:00-18:00)**-Conveners: Raju Venugopalan**

time	[id] title	presenter
16:00	[4] Real-time dynamics of the Chiral Magnetic Effect	MUELLER, Niklas
16:30	[5] Far-from-equilibrium universality classes: From heavy-ion collisions to superfluid scalar systems	BOGUSLAVSKI, Kirill
17:00	[39] Simulating thick pancake collisions	IPP, Andreas
17:30	[36] Early quark production and approach to chemical equilibrium	Dr. GELFAND, Daniil

Parallel Track 3 - Ø-130 (16:00-18:00)**-Conveners: Andreas Schmitt**

time	[id] title	presenter
16:00	[21] Chiral magnetic effect and chiral kinetic theory	Dr. PU, Shi
16:30	[44] Chiral magnetic effect by synthetic gauge fields	Dr. HAYATA, Tomoya
17:00	[12] Quark matter and neutron stars	VUORINEN, Aleksu
17:30	[43] Superfluid vortices in dense quark matter	WINDISCH, Andreas

Friday 15 July 2016

Plenary - G-001 (09:00-10:30)

-Conveners: Guy Moore

time	[id] title	presenter
09:00	[52] Vacuum (meta?)stability, Higgs inflation and physics beyond the Standard Model	SHAPOSHNIKOV, Mikhail
09:45	[53] Dense nuclear and quark matter in compact stars	SCHMITT, Andreas

Coffee - Aula (10:30-11:00)

Plenary - G-001 (11:00-12:30)

-Conveners: Guy Moore

time	[id] title	presenter
11:00	[51] Hydrodynamization in weakly-coupled heavy-ion collisions	KURKELA, Eero Aleks
11:45	[29] Lessons from Numerical Holography	YAFFE, Laurence

Lunch - Aula (12:30-13:30)