

**Quark Matter 2014 - XXIV  
International Conference on  
Ultrarelativistic  
Nucleus-Nucleus Collisions**



**XXIV QUARK MATTER**  
DARMSTADT 2014

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A-03	BERGNER, Georg	Prospects of effective Polyakov line actions for investigations of dense nuclear matter
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A-06	FRANCIS, Anthony	The second order hydro-coefficient $\kappa_1$ and antiscreening of QED and QCD plasmas from lattice QCD
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A-18	NAYAK, Kishora	$K^*_0(892)$ resonance production with the ALICE experiment at the LHC
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E-26	PLOSKON, Mateusz; TEIXEIRA DE ALMEIDA MILHANO, Guilherme; CUNHA APOLINARIO, Liliana Marisa; ZHANG, Xiaoming	Novel sub-jet observables for quenched jets
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## Collective Dynamics

Board #	Presenter	Title
<b>H-01</b>	APARIN, Alexey	Cumulative Particle Production in p+A Collisions and z-Scaling
<b>H-02</b>	BELMONT, Ron	Identified charged hadron spectra and ratios in PHENIX
<b>H-03</b>	BHASIN, Anju	Measurement of higher harmonic flow of $\phi$ meson in STAR at RHIC
<b>H-04</b>	BORGHINI, Nicolas	Constraining dissipative corrections to particle distributions at freeze out from anisotropic flow
<b>H-05</b>	BOURAS, Ioannis	Mach cones in viscous heavy-ion collisions
<b>H-06</b>	CSANAD, Mate	Higher order asymmetries with exact hydrodynamics
<b>H-07</b>	CSERNAI, Laszlo	Lambda Polarization in peripheral heavy ion collisions
<b>H-08</b>	DENICOL, Gabriel; NIEMI, Harri	Quantifying the applicability of the fluid dynamical description of AA and pA collisions using Knudsen numbers
<b>H-09</b>	DUDEK, Danuce	Effect of the equation of state on particle spectra, elliptic flow and HBT radii
<b>H-10</b>	GRASSI, Frederique	Constraining global initial geometry with directed flow
<b>H-11</b>	HIRONO, Yuji	Estimation of electric conductivity of the quark gluon plasma via asymmetric heavy-ion collisions
<b>H-12</b>	IKEDA, Atsuro	Determination of charm quark diffusion parameter with improved Bayesian analysis in lattice QCD
<b>H-13</b>	JIPA, A.	Simulations with YaPT system for nucleus-nucleus collisions FAIR-GSI energies

H-14	JIPA, Alexandru	Applications of Chaos Many-Body Engine for the analysis of relativistic nuclear collisions at 200 A GeV/c
H-15	KARPENKO, Iurii	Beam energy scan using a 3+1D viscous hydro+cascade model
H-16	MA, Guo-Liang	Final state effects on charge asymmetry of pion elliptic flow in high-energy heavy-ion collisions
H-17	MAGAS, Volodymyr	Observable consequences of tilted initial state
H-18	MELO, Ivan	Freeze-out state from analysis of transverse momentum spectra in Pb+Pb collisions at 2.76 ATeV
H-19	MITRA, Sukanya	Medium effects on the transport coefficients of a hot pion gas
H-20	MIZUNO, Sanshiro	Direct photon collective flow in Au+Au collisions at $\sqrt{s_{NN}} = 200\text{GeV}$
H-21	MURASE, Koichi	Causal hydrodynamic fluctuation and its implementation in full (3+1)-D dissipative hydrodynamic simulation
H-22	NASIM, Md	Probe the QCD media using $\phi$ -meson event anisotropy $v_2$
H-23	NORONHA-HOSTLER, Jacquelyn	Enhancement of Flow Harmonics due to Bulk Viscosity in Event by Event Hydrodynamics
H-24	OLIINYCHENKO, Dmytro	Local equilibration and negative contributions: Investigating the transition interfaces in hybrid approaches
H-25	ONDERWAATER, Jacobus	Estimates of heavy-ion collision symmetry planes with the ALICE detector
H-26	ORTIZ VELASQUEZ, Antonio	Disentangling the soft and hard components of the pp collisions using the spheri(o)city approach
H-27	PAL, Subrata	Eigenmode analysis of anisotropic flow
H-28	PLUMARI, Salvatore; GRECO, Vincenzo	Anisotropic flows and the shear viscosity of the QGP within a transport approach with initial state fluctuations.
H-29	PRASAD, Sidharth Kumar	Soft and Hard interactions in proton-proton collisions at LHC energies
H-30	RETINSKAYA, Ekaterina	Constraining initial stages of heavy-ion collisions from RHIC and LHC data
H-31	REYNOLDS, Damian	Elliptic and Triangular Flow of inclusive charged hadrons in Au+Au and Cu+Cu at $\sqrt{s_{NN}} = 200\text{ GeV}$ collisions at RHIC-PHENIX
H-32	RISTEA, Oana	Tsallis blast-wave analysis in relativistic heavy ion collisions
H-33	RYBICKI, Andrzej; SZCZUREK Antoni	Charge splitting of directed and elliptic flow in heavy ion collisions
H-34	RYBLEWSKI, Radoslaw	Exact solutions of kinetic equation in the relaxation time approximation
H-35	SAHOO, Raghunath	Effective Energy Dissipation and Particle Production in Heavy-Ion Collisions
H-36	SCHULC, Martin	Hydrodynamical evolution with energy and momentum feeding during the fireball expansion
H-37	SUN, Xu	Triangular Flow of Inclusive Charged and Identified Particles at RHIC
H-38	TINTI, Leonardo	Projection method and new formulation of leading-order anisotropic hydrodynamics
H-39	WANG, Dujuan	Flow vorticity in Peripheral high-energy heavy ion collisions
H-40	WOLFF, Zack	Self-consistent Cooper-Frye freeze-out of a viscous fluid to particles
H-41	ZHANG, Bin	What can the event transverse energy distribution tell us about the longitudinal flow?

## Correlations and Fluctuations

Board #	Presenter	Title
I-01	AJITANAND, Nuggehalli	Measurement of the space-time extent of the emission source in d+Au and Au+Au collisions through charged pion interferometry at $\sqrt{s_{NN}} = 200$ GeV
I-02	MWAI, alex	Two-pion Femtoscopy Measurements at RHIC-PHENIX
I-03	ALTSYBEEV, Igor; DE, Sudipan	Forward-backward multiplicity correlations in pp collisions at $\sqrt{s} = 0.9, 2.76$ and 7 TeV
I-04	BECK, Hans	Identified particle femtoscopy in Pb-Pb collisions with ALICE at the LHC
I-05	BERNHARD, Jonah E.	QGP parameter extraction via a global analysis of event-by-event flow coefficient distributions
I-06	BHOM, Jihyun	Multiplicity dependence of long and short-range two-particle correlation in $\sqrt{s} = 7$ TeV proton-proton collisions at LHC-ALICE experiment
I-07	BORSANYI, Szabolcs	Freeze-out parameters for the Large Hadron Collider
I-08	CAMPBELL, John	Azimuthally-sensitive two-pion interferometry in U+U collisions at STAR
I-09	CHATTERJEE, Sandeep	Sign Structures of Susceptibilities of Conserved Charges in the (2+1) Polyakov Quark Meson Model
I-10	CHEN, Zhenyu	Long-range two-particle correlations with K0s and Lambda in pPb and PbPb collisions in CMS
I-11	EYYUBOVA, Gyulnara	Dihadron angular correlations in PbPb collisions with HYDJET++ model.
I-12	GOLDSCHMIDT, Andy	Knee structure in the elliptic flow in ultracentral U+U collisions
I-13	GRACZYKOWSKI, Lukasz Kamil	Pion femtoscopy measurements in small systems with ALICE at the LHC
I-14	HANSEN, Alexander	Generic framework for anisotropic flow analyses with multi-particle azimuthal correlations
I-15	HUO, Peng	Elucidating the event-by-event flow fluctuations in heavy ion collisions via the event-shape selection and twisting techniques
I-16	KOVALENKO, Vladimir	Description of $\langle p_T \rangle - \langle N_{ch} \rangle$ correlations in pp, pA and AA collisions in Monte Carlo model based on the interaction of color dipoles
I-17	LEOGRANDE, Emilia	Multi parton interaction studies in pp and p-Pb
I-18	LOCTIONOV, Albert	Strong fluctuations in initial conditions for interactions of heavy and light nuclei at JINR-AGS-SPS energies
I-19	LYUBOSHITZ, Valery	Femtoscopic correlations of two identical particles with nonzero spin in the model of one-particle multipole sources
I-20	LYUBOSHITZ, Valery	Possible effect of mixed phase and deconfinement upon spin correlations in the $\Lambda$ anti- $\Lambda$ pairs generated in relativistic heavy-ion collisions
I-21	LYUBOSHITZ, Valery	On the pair correlations of neutral K, D, B and $B_s$ mesons with close momenta produced in inclusive multiparticle processes
I-22	MISHRA, Ananta P.	Fluctuations in Relativistic Causal Hydrodynamics
I-23	MORITA, Kenji	The Chiral Criticality in the Probability Distribution of Conserved Charges
I-24	NAYAK, Tapan	Mapping the Little Bangs Through Energy Density and Temperature Fluctuations
I-25	NIGMATKULOV, Grigory	Femtoscopic analysis of charged kaon correlations at small relative momentum in p+p collisions in STAR
I-26	OH, Saehanseul	Correction Methods for Finite-acceptance Effects in Two-particle Correlation Analysis
I-27	OLSZEWSKI, Adam	Forward-backward multiplicity correlation in relativistic heavy-ion collisions in a superposition approach
I-28	OZONDER, Sener	Tri-hadron Azimuthal Correlations and the Conical Emission by Strong Color Fields without Collective Flow in p+p and p+Pb Collisions

I-29	PANG, LongGang	Relics of Minijets amid Anisotropic Flows
I-30	PIYARATHNA, Danthasinghe	Untriggered di-hadron correlations in Pb-Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV with the ALICE experiment
I-31	Ms. PONIATOWSKA, Katarzyna	Pion-kaon femtoscopy in Au+Au collisions at $\sqrt{s_{NN}} = 39$ GeV at STAR
I-32	RISTEA, Catalin	Higher moments of multiplicity distributions in nuclear collisions at relativistic energies
I-33	ROY, Victor	Sensitivity of event plane correlations at large rapidity gap to $\eta/s$ in heavy ion collisions
I-34	RYBCZYNSKI, Maciej	Cross section fluctuations in hadronic and nuclear collisions
I-35	Ms. SAKAIDA, Miki	Effects of the global charge conservation on the time evolution of fluctuations of conserved charges in relativistic heavy ion collisions
I-36	SALZWEDEL, Jai	Femtoscopy with $\Lambda$ baryons in Pb-Pb collisions with ALICE at the LHC
I-37	SCHUSTER, Tim	Forward rapidity two-particle correlations in p-Pb collisions measured in ALICE
I-38	SIKLÉR, Ferenc	Bose-Einstein correlations with identified particles in CMS
I-39	STEINHEIMER, Jan	The deconfinement phase transition in simulations of relativistic nuclear collisions
I-40	STEINPREIS, Matthew Donald	Kaon femtoscopy in Pb-Pb collisions with ALICE at the LHC
I-41	TANG, Aihong	Beam Energy Dependency of Clan Multiplicity at RHIC
I-42	VARMA, Mukund Madhav	Production of $\Phi$ mesons in pPb and PbPb collisions in CMS
I-43	WESTFALL, Gary	Measurement of the Charge Balance Function at RHIC from $\sqrt{s_{NN}} = 7.7$ to 200 GeV
I-44	YOUNG, Clint	Thermal fluctuations in heavy ion collisions

## Thermodynamics and Hadron Chemistry

Board #	Presenter	Title
J-01	BEGUN, Viktor	The onset of pion condensation in heavy-ion collisions at the LHC energies
J-02	BORISSOV, Alexander	$\Sigma^0$ and anti- $\Sigma^0$ Baryon Production in pp Collisions at $\sqrt{s} = 7$ TeV with ALICE at the LHC
J-03	BUGAEV, Kyrill; OLIINYCHENKO, Dmytro	Chemical Freeze-out Irregularities and Quark Gluon Bags Formation
J-04	BUGAEV, Kyrill	On Chemical Freeze-outs of Strange and Nonstrange Hadrons
J-05	CHATTERJEE, Sandeep	Multiple Freezeout in Heavy Ion Collisions
J-06	DE FALCO, Alessandro	Light vector meson production in p-Pb and Pb-Pb collisions measured with the ALICE detector
J-07	FILINOV, Vladimir	Color path-integral Monte-Carlo simulations of strongly coupled quark-gluon plasma
J-08	GUPTA, Shikshit	Identified particle production for p+p collisions in $\sqrt{s} = 62.4$ GeV at STAR
J-09	MERES, Michal	Midrapidity antibaryon-to-baryon ratios in Pb-Pb and p-Pb collisions measured by the ALICE experiment
J-10	OZDEMIR, Mahmut	$\omega(782)$ and $\phi(1020)$ Meson Production in the Dielectron Channel in pp Collisions at $\sqrt{s} = 7$ TeV with ALICE

J-11	PREGHENELLA, Roberto	Measurement of integrated yields of light flavour hadrons, resonances and (hyper-)nuclei at LHC energies with the ALICE experiment and their description with thermal models
J-12	RAPPOLD, Christophe	HypHI project: Final results of the study of hypernuclei in the reaction ${}^6\text{Li}+{}^{12}\text{C}$ at 2 AGeV
J-13	SHARMA, Sayantan	The thermodynamics of heavy light hadrons at freezeout
J-14	TOMASIK, Boris	Strangeness production in nuclear collisions around the threshold

## Relations to Other Strongly Interacting Systems

Board #	Presenter	Title
K-01	NUNES DA SILVA, Tiago	From the Quark Gluon Plasma to Strongly Coupled Conformal Theories
K-02	STRODTHOFF, Nils	QCD-like theories at finite density

## New Theoretical Developments

Board #	Presenter	Title
L-01	BERENYI, Daniel	Fermion pair production in space-time dependent strong fields
L-02	BHALERAO, Rajeev; JAISWAL, Amaresh; PAL, Subrata; V., Sreekant	New results in the formalism and application of relativistic viscous hydrodynamics
L-03	CZAJKA, Alina	Ghosts in Nonequilibrium Quark-Gluon Plasma
L-04	HABICH, Mathis	Cavitation and bulk viscosity
L-05	HONGO, Masaru	Charge dependent elliptic flow from anomalous hydrodynamics
L-06	HUBER, Markus	Nonperturbative gluonic three-point correlations
L-07	JAISWAL, Amaresh	Relaxation-time approximation and relativistic viscous hydrodynamics from kinetic theory
L-08	MARROCHIO, Hugo	Nonlinear waves in 2nd order conformal hydrodynamics
L-09	MEIRING, Ben	The Time Evolution of the Distribution of Matter in Hard Particle Production
L-10	MORAD, Razieh	A new calculation of light quark jet energy loss using the AdS/CFT correspondence
L-11	NORONHA, Jorge	Exact analytical solutions of second-order conformal viscous hydrodynamics
L-12	SAMBERG, Andreas	Heavy Quarks and Mesons at Finite Chemical Potential in Gauge/Gravity Duality
L-13	SCHRAM, Zsolt	Flow or Radiation in Heavy-ion Collisions?
L-14	SINHA, Bikash	The Microsecond universe and the neutron star
L-15	SORIN, Alexander	Vorticity and asymmetries at NICA
L-16	UERMEOESSY, Karoly	Multiplicity and s Dependence of Hadron Spectra in pp Collisions at RHIC and LHC

## Future Experimental Facilities, Upgrades, and Instrumentation

Board #	Presenter	Title
M-01	BALOG, Tomas	System integration of the Silicon Tracking System for the CBM experiment at FAIR
M-02	BUFALINO, Stefania	Nuclei identification and hypernuclei reconstruction with the ALICE inner tracker upgrade
M-03	DUBEY, Anand Kumar	A Muon Detection System for the CBM experiment at FAIR
M-04	DURHAM, J. Matthew	The PHENIX Forward Silicon Vertex Detector
M-05	GEURTS, Frank	The STAR Muon Telescope Detector Upgrade
M-06	GHOSH, Pradeep	Development of prototype components for the Silicon Tracking System of the CBM experiment at FAIR
M-07	HAAG, Brooke	A Fixed-Target Program for STAR: Extending the Low Energy Reach of the RHIC Beam Energy Scan
M-08	KEKELIDZE, Vladimir	Status of the NICA project at JINR
M-09	KOPFER, Jan	The CBM-RICH detector
M-10	MAHMOUD, Tariq	Determination of tolerances of mirror displacement and radiator gas impurity for the CBM RICH detector
M-11	PAULY, Christian	Development of the photon detection system for the CBM RICH
M-12	LISNIAK, Stanislav	Hough transform for charged particle tracking in CMS
M-13	LOMNITZ, Michael	Global alignment methods of the inner silicon tracker (HFT) of the STAR experiment at RHIC
M-14	MILOV, Alexander	Centrality Detector for Collider-based Heavy Ion Experiments
M-15	MORRISON, David	An Electron Ion Collider (EIC) Detector Built Around the BaBar Magnet (ePHENIX)
M-16	NAGASHIMA, Kazuya	Performance study for measurement of jets and heavy flavor using sPHENIX.
M-17	NAGLE, jamie	sPHENIX Detector and Physics Program
M-18	OLAH, Laszlo	The performance of the ALICE High Momentum Particle Identification Detector in pp, p-Pb and Pb-Pb collisions
M-19	OMET, Carsten	Status of the FAIR Synchrotrons
M-20	OMET, Carsten	Development of fast ramped superconducting magnets for SIS300
M-21	OZAWA, Kyoichiro	New beam line and experiments at J-PARC
M-22	PEITZMANN, Thomas	FoCal, a high-granularity electromagnetic calorimeter development as a possible upgrade for the ALICE experiment
M-23	ROMITA, Rosa	Observation of the charm baryon $\Lambda_c$ with ALICE at the LHC and perspectives for future measurements with the ALICE upgrade
M-24	SHAO, Ming	Upgrade STAR as a possible EIC detector
M-25	SINGLA, Minni	Concept and performance of the Silicon Tracking System for the CBM experiment at FAIR
M-26	SINGLA, Minni	Performance for the reconstruction of B mesons with the ALICE inner tracker upgrade
M-27	TERREVOLI, Cristina	Performance for the reconstruction of $\Lambda_b$ baryons with the ALICE inner tracker upgrade
M-28	TRZASKA, Wladyslaw Henryk	Fast Interaction Trigger for ALICE

<b>M-29</b>	VALENCIA PALOMO, Lizardo	The ALICE Muon Forward Tracker Upgrade Project
<b>M-30</b>	WANG, Yaping; YE, Zhenyu	Intermediate Silicon Tracker For STAR HFT Upgrade
<b>M-31</b>	XUE, LIANG	Studies of the hadronic calorimeter prototype for sPHENIX

