



The XXVth International Conference on Ultrarelativistic Nucleus-Nucleus Collisions

Sep. 27 – Oct. 3, 2015 Kobe, Japan



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#### **Contacts**

#### **Meeting Chairs:**

Hideki Hamagaki (Tokyo), chair, The University of Tokyo. Yasuyuki Akiba (RIKEN), co-chair, RIKEN, Nishina Center. Tetsuo Hatsuda (RIKEN), co-chair, RIKEN, Nishina Center.

#### **EMail Contacts:**

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Other issues (agenda, accommodation, excursion, child care etc): gm2015@riken.jp

#### Secretariat:

The conference office is located in the Convention Room No.3 (CON3) on the 9th floor of the conference venue (Kobe Fashion Mart).

## **Working Hours**

Sunday, September 27th	8:30-20:30
Monday, September 28th	8:00-19:30
Tuesday, September 29th	8:30-20:30
Wednesday, September 30th	8:30-19:30
Thursday, October 1st	8:30-19:30
Friday, October 2nd	8:30-19:30
Saturday, October 3rd	8:30-14:00

### **Network (Internet Access)**

Wi-Fi is available on the 9th floor of the conference venue (No Wi-Fi on the street level).

SSID: QM2015

Passphrase: rokkouairando (13 characters, lowercase only)

**Encryption: WPA2-AES** 

In case of a problem: Ask the local organizers at the conference office on the 9th floor.

Notes: Please use "http:" instead of "https:" to access the CERN-Indico except revising your INDICO page, because the proxy server cannot handle encrypted access (https:).

### **Instructions for Presenters**

#### Plenary and parallel session talks

- · Opening talk (Monday, September 28th) is allocated 40 min. plus 5 min for discussions.
- · Teaser talks (Monday, September 28th) are allocated for 5 min. without discussions.
- Parallel talks (Monday, September 28th Wednesday, September 30th) are allocated for 15 min. plus 5 min. for discussions.
- Plenary talks (Thursday, October 1st Saturday, October 3rd) are allocated for 25 min. plus
   5 min. for discussions except for the special session on "QGP in small systems?" on Friday,
   the 3rd plenary talk (15 min. plus 5 min.) on Saturday, and the flash talks (5 min. without discussions, maximum 3 slides) on Saturday.

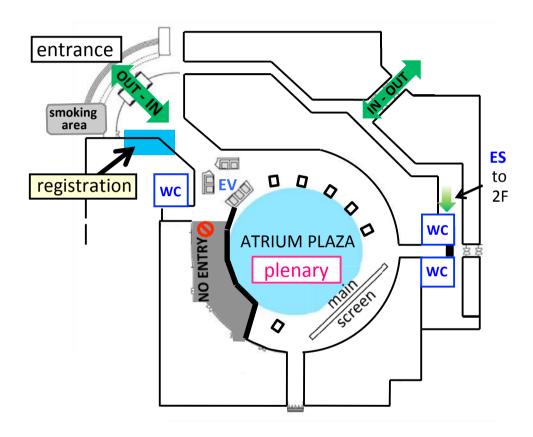
All speakers are asked to upload their talks to the INDICO conference server by the end of the day before their presentation. Talks must be uploaded in ppt and pdf format (be mindful of proprietary fonts).

The speakers can upload and test their presentation at the conference office. The conference office is located in the Convention Room No.3 (CON3) on the 9th floor of the conference venue and is open during working hours.

#### Poster presentations

- · Poster session will be held in the afternoon of Tuesday, September 29th.
- Posters must also be uploaded to the INDICO conference server before the poster session in order to participate in the selection for flash talk presentations on Saturday, October 3rd. From the uploaded ones, some posters will be selected for presentation as 5 min. flash talk (3 slides maximum).
- The size of the poster must be A0 [84.1 cm (width) x 118.9 cm (height) = 33.11 inch (width) x 46.81 inch (height)] or smaller.

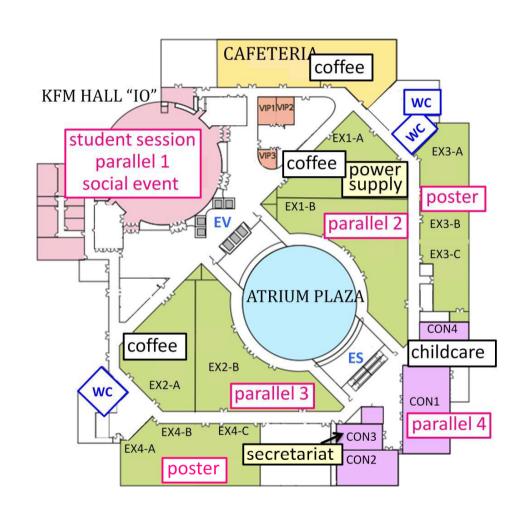
1F



WC = Restroom

EV = Elevator

ES = Escalator



CON\* = Convention room EX\* = Exhibition space

### QM2015 Time Table

Sun. Sep. 27<sup>th</sup> Mon. Sep. 28<sup>th</sup> Tue. Sep. 29<sup>th</sup> 8:00-9:00 Check In 9:00 9:00-10:40 p9 9:00-10:20 p18 Opening Ceremony, Parallel Session IV Opening Talk, 10:00 (9F) Teaser talks 9:00-12:15 (Atrium Plaza, 1F) Coffee break (9F) Student Session I 11:00 (KFM Hall "IO", 9F) Coffee break (9F) p20 10:50-12:30 Parallel Session V 11:15-12:55 p10 12:00 (9F) Parallel Session I (9F) 12:15-13:30 Lunch 13:00 12:30-14:00 (Cafeteria, 9F) Lunch 12:55-14:30 Lunch 14:00 13:30-16:45 p22 15:00 14:00-16:20 Student Session II Parallel Session VI 14:30-16:30 (KFM Hall "IO", 9F) Parallel Session II (9F) 16:00 (9F) Coffee break (9F) 17:00 16:30-18:30 Poster Session (Exhibit. space 3&4, 17:00-19:00 16:30-20:00 18:00 9F) Parallel Session III Check In (9F) (Main entrance, 1F), Welcome Drink 19:00 (Cafeteria, 9F) 19:00-20:00 Social event: Gagaku 20:00 (KFM Hall "IO", 9F)

Wed. Sep.  $30^{th}$ Thu. Oct. 1st Fri. Oct. 2<sup>nd</sup> Sat. Oct. 3rd

9:00-10:20 p26 Parallel Session VII (9F) Coffee break (9F)	9:00-10:30 p30 Plenary Session I (Atrium Plaza, 1F)  Coffee break (1F&9F)	9:00-10:30 p32 Plenary Session V (Atrium Plaza, 1F)  Coffee break (1F&9F)	9:00-10:50 p34 Plenary Session VIII (Atrium Plaza, 1F)
10:50-12:30 p28 Parallel Session VIII (9F)	11:00-12:30 p30 Plenary Session II (Atrium Plaza, 1F)	11:00-12:30 p32 Plenary Session VI (Atrium Plaza, 1F)	Coffee break (1F&9F)  11:20-12:50 p34  Flash Talks,  Awards,  Next QM
	Conference Photo 12:35-14:00 Lunch	12:30-14:00 Lunch	(Atrium Plaza, 1F)
12:30-18:00 Excursion	14:00-16:00 p31 Plenary Session III (Atrium Plaza, 1F)	14:00-16:00 p33 Plenary Session VII (Atrium Plaza, 1F)	
	Coffee break (1F&9F)	Coffee break (1F&9F)	
	16:30-18:30 [p31] Plenary Session IV (Atrium Plaza, 1F)	16:30-18:30 p33 Special Session (Atrium Plaza, 1F)	

20:00-22:00 Conference Dinner (ANA Crowne Plaza Hotel Kobe)

9:00-16:45	Student Day	
	(KFM Hall "IO")	
9:00	Theory Overview	
	Bjoern Schenke	
9:50	break	
10:00	Study of QCD Phase Structure in Hig	h-Energy Nuclear Collisions
	Nu Xu	
10:50	break	
11:00	Flow	
	Jean-Yves Ollitrault	
11:50	Q & A session - I	
12:15	Lunch	
	(Cafeteria (9F))	
13:30	QCD in heavy ion collisions	
	Kenji Fukushima	
14:20	break	
14:30	Hard Probes of Hot Matter	
	Gunther Roland	
15:20	break	
15:30	Experiment overview and perspect	tives
	Barbara Jacak	
16:20	$\mathbf{Q}$ & A session - II	
16:30-20:00	Check In	Welcome Drink
	(Information desk,	(Cafeteria (9F))
	Main entrance (1F))	

8:00-9:00	Check In (Information desk, Main entrance (1F))
9:00-9:30	Opening Ceremony (Atrium plaza, chair: Yasuyuki Akiba)
9:00	Welcome by Hideki Hamagaki, Chair of the QM2015 Conference
9:04	Welcome by Yasuhiko Fujii, President of the Japanese Physical
	Society
9:09	Welcome by Kumie Inose, Vice-President of Science Council of Japan
9:14	Welcome by Kizo Hisamoto, Mayor of Kobe
9:19	Welcome by Takaharu Otsuka, Director of the Center for Nuclear
	Study, The University of Tokyo
9:24	Welcome by Hideto En'yo, Director of the RIKEN Nishina Center
9:29	Message by Shinzo Abe, Prime Minister of Japan (to be read by
	Yasuyuki Akiba, RIKEN)
9:30-10:15	Opening Talk (Atrium plaza, chair: Yasuyuki Akiba)
9:30	Ultrarelativistic heavy ion collisions: the first billion seconds
	Gordon Baym
10:15-10:40	Teaser Talks
	(Atrium plaza, chair: Yasuyuki Akiba)
10:15	ALICE
	Johannes Peter Wessels
10:20	ATLAS
	Adam Trzupek
10:25	CMS
	Yen-Jie Lee
10:30	PHENIX
	David Morrison
10:35	STAR
	Frank Geurts
10:40-11:15	Coffee Break (9F)

# Monday, September 28<sup>th</sup> (2)

11:15-12:55 Parallel  11:15	Quarkonia I (KFM Hall "IO", chair: Thomas Peitzmann)  Quarkonium production in proton-proton and proton-lead collisions with ATLAS at the LHC Qipeng Hu	New Theoretical  Development I  (Exhibition Space 1-B, chair:  Chihiro Sasaki)  Chiral Kinetic Theory  Misha Stephanov	Open Heavy Flavors and Strangeness I (Exhibition Space 2-B, chair: Yu-Gang Ma)  Identified light and strange hadron spectra at $\sqrt{s_{NN}}$ =14.5 GeV and systematic study of baryon/meson effect at intermediate transverse momentum with STAR at RHIC BES I James Brandenburg	QCD at High Temperture (Convention Room 1, chair: Frithjof Karsch)  Recent progress in understanding gauge topology, confinement and chiral symmetry breaking Rasmus Larsen
11:35	J/psi and psi(2S) production in p-Pb collisions with ALICE at the LHC Marco Leoncino	_	Multiplicity and rapidity dependence of strangeness and multi-strangeness production in pp, pPb and PbPb at CMS Hong Ni	The topological structures in strongly coupled QGP with chiral fermions on the lattice Sayantan Sharma
11:55	LHCb results from proton ion collisions $\begin{tabular}{ll} Zhenwei \ Yang \end{tabular}$	Third order relativistic dissipative fluid dynamics in heavy-ion collisions and astrophysics  Azwinndini Muronga	$\phi$ production at forward rapidity in pp, pPb and PbPb collisions with ALICE Alessandro De Falco	QCD phase diagram from analytical continuation $Szabolcs\ Borsanyi$
12:15	Cold Nuclear Matter Effects on J/psi and Upsilon production in p+Pb collisions at 5 TeV and Pb+Pb collisions at 5.1 TeV Ramona Vogt	Hydrodynamics with chiral anomaly and charge separation in relativistic heavy ion collisions Xu-Guang Huang	Violation of mass ordering for multi- strange hadrons at RHIC and LHC Shiori Takeuchi	Energy loss and shear viscosity at NLO in a high-temperature QGP Jacopo Ghiglieri
12:35	Forward $J/psi$ production in pA collisions at the LHC Bertrand Ducloue	What flows in the chirally anomalous transport?  Kenji Fukushima	Results from (anti-)(hyper-)nuclei production and searches for exotic bound states with ALICE at the LHC Natasha Sharma	Confronting fluctuations of conserved charges in central nuclear collisions at the LHC with predictions from Lattice QCD Alexander Philipp Kalweit
12:55-14:30	Lunch		Lunch	

Quark Matter 2015 10 Kobe, Japan Quark Matter 2015 11 Kobe, Japan

# Monday, September 28<sup>th</sup> (3)

14:30-16:30 Parallel	Correlations and Fluctuations I (KFM Hall "IO", chair: Tapan Nayak)	Jets and High pT Hadrons I (Exhibition Space 1-B, chair:  John Harris)	-	Initial State Physics and Approach to Equilibrium I (Convention Room 1, chair: Sangyong Jeon)
14:30	Higher moments of net-proton and net-charge multiplicity distributions at 14.5 GeV measured in Au+Au collisions at midrapidity with STAR at RHIC  Jochen Thaeder	Charged particle production in proton-lead collisions measured by the ATLAS detector Evgeny Shulga	finement	Re-weighting at the LHC: the p-Pb data impact $Maria\ Zurita$
14:50	Longitudinal Asymmetry and its Measurable Effects in Pb-Pb Col- lisions at 2.76 TeV Rashmi Raniwala	Decomposing energy balance contributions for quenched jets with CMS Olga Evdokimov		Charged-Particle Multiplicity Distributions over Wide Pseudorapidity Range in Proton-Proton Collisions with ALICE Valentina Zaccolo
15:10	Measurement of the correlation between flow harmonics of differ- ent order in lead-lead collisions at sqrt(sNN)=2.76 TeV with AT- LAS Sooraj Krishnan Radhakrishnan	Angular distributions of the quenched energy flow from dijets with different radius parameters in CMS  Christopher Mc Ginn	son Production in Au+Au Collisions at $\sqrt{s_{NN}} = 200~{\rm GeV}$	Centrality and pseudorapidity dependence of transverse energy flow in pPb collisions at 5.02 TeV with CMS  Michael Murray
15:30	Thermal blurring effects on fluctuations of conserved charges in rapidity space  Masayuki Asakawa	Interplay between Mach cone and radial expansion in jet events  Yasuki Tachibana	Measurements of heavy-flavour nuclear modification factor and elliptic flow in Pb–Pb collisions at $\sqrt{s_{\rm NN}}=2.76$ TeV with ALICE Andrea Dubla	Initial state from holography Wilke van der Schee
15:50	Influence of conservation laws on higher moments of the net proton and net charge distribution Hannah Petersen	Thermalization of mini-jets in a quark-gluon plasma $Bin\ Wu$	v <del>-</del>	Initial state azimuthal anisotropies in small collision systems $Tuomas\ Lappi$

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14:30-16:30 (Continued)	(Correlations and Fluctuations I) $ \label{eq:correlations} % \begin{center} \be$	(Jets and High pT Hadrons I)	(Open Heavy Flavors and Strangeness II)	(Initial State Physics and Approach to Equilibrium I)
16:10	Nonlinear hydrodynamic re-	Modification of reconstructed	event by event correlations between light	Azimuthal Harmonics at RHIC and LHC
	sponse confronts LHC data	gamma-jets in heavy-ion collisions	and heavy mesons	energies: Competition between Initial
	Li Yan	Tan Luo	Joerg Aichelin	State Bremsstrahlung and Final State
				Hydrodynamics
				Peter Levai

Coffee Break

terings

Guo-Liang Ma

#### 16:30-17:00 **Coffee Break**

Point in the Phase Diagram for

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Hot and Dense Nuclear Matter

Roy Lacey

#### Correlations and Jets and High pT Hadrons QGP in Small Systems I **Initial State Physics and Approach** 17:00-19:00 (Exhibition Space 2-B, chair: Jiangyong to Equilibrium II Parallel Fluctuations II H (KFM Hall "IO", chair: (Exhibition Space 1-B, chair: Jia) (Convention Room 1, chair: Federico Joachim Stroth) Francois Gelis) Antinori) NA61/SHINE results on fluc-Fragmentation patterns of jets in Direct photon production and jet quench-Charge-dependent anisotropic flow in 17:00 ing in small systems Cu+Au collisions tuations and correlations in pPb collisions in CMS p+p and Be+Be interactions at Austin Alan Baty Charles Gale Takafumi Niida CERN SPS energies Maja Katarzyna Mackowiak-PawlowskaIndications for a Critical End Exploring jet sub-structure in PHENIX results on flow observables in Flow in small systems from parton scat-

Pb-Pb collisions at 2.76 TeV with

Leticia Cunqueiro Mendez

ALICE

asymmetric Cu+Au collisions

Brennan Schaefer

17:00-19:00 (Continued)	(Correlations and Fluctuations II)	(Jets and High pT Hadrons II)	(QGP in Small Systems I)	(Initial State Physics and Approach to Equilibrium II)
17:40	Systematics of higher order net- baryon number fluctuations at small values of the baryon chem- ical potential: A comparison of lattice QCD and beam energy scan results Frithjof Karsch	Subjet structure as a discriminating quenching probe $Xiaoming\ Zhang$	Effects produced by multi-parton interactions and color reconnection in small systems  Guy Paic	The influence of pre-equilibrium dynamics on heavy-ion collision observables $Ulrich\ Heinz$
18:00	Modeling chiral criticality and its consequences for heavy ion collisions $Gabor\ Almasi$	Jet Hadronization via Recombination of Parton Showers in Vacuum and in Medium  Rainer Fries	Differential multi-particle correlation measurements for pPb collisions at CMS $Quan\ Wang$	Early Time Dynamics of Gluon Fields in High Energy Nuclear Collisions Joseph Kapusta
18:20	Correlated fluctuations near the QCD critical point  Huichao Song	Jet-induced medium excitation in heavy-ion collisions  Wei Cheng	Light flavour results in p-Pb collisions with ALICE  Antonio Ortiz Velasquez	Resumming large radiative corrections in the high-energy evolution of the Color Glass Condensate Edmond Iancu
18:40	Heavy-light flavor correlations and the QCD phase boundary Chihiro Sasaki	Consequences (and a possible explanation) of the $R_{pA}^{\rm jet}$ - $R_{pA}^{\rm hadron}$ puzzle Urs Wiedemann	PHENIX results on collectivity in ${}^{3}\text{He}+\text{Au collisions}$ Shengli Huang	The non-trivial interplay of elastic and inelastic collisions in the thermalization of the quark-gluon plasma  Jean-Paul Blaizot

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# Tuesday, September 29<sup>th</sup> (1)

9:00-10:20 Parallel 9:00	Quarkonia II (KFM Hall "IO", chair: Min Jung Kweon)  PHENIX measurement of the collision system and multiplicity dependence of heavy quarkonia production Anthony Frawley	New Theoretical  Developments II  (Exhibition Space 1-B, chair:  Teiji Kunihiro)  Strong-Coupling Effects in a  Plasma of Confining Gluons  Radoslaw Ryblewski	Collective Dynamics I (Exhibition Space 2-B, chair: $In$ - $Kwon$ $Yoo$ )  Measurement of D Meson Azimuthal Anisotropy in Au+Au Collisions at $\sqrt{s_{NN}} = 200 \text{ GeV}$ from STAR $Michael\ Lomnitz$	Open Heavy Flavors and Strangeness III  (Convention Room 1, chair: Zaida Conesa Del Valle)  PHENIX measurement of $b\bar{b}$ production in $p+p$ collisions  Abhisek Sen
9:20	Charmonium production in Pb-Pb collisions with ALICE at the LHC  Hugo Denis Antonio Pereira Da  Costa		Beam-Energy and Centrality Dependence of Directed Flow of $\Lambda$ , $\bar{\Lambda}$ , $\phi$ , $K_s^0$ , $K^\pm$ , $p$ , $\bar{p}$ , $\pi^\pm$ Prashanth Shanmuganathan	Measurements of heavy-flavour production in p–Pb collisions with ALICE Jeremy Wilkinson
9:40	Upsilon production measurements in pp, p-Pb and Pb-Pb collisions with ALICE  Indranil Das	Soft-Collinear Effective theory for hadronic and nuclear collisions: The evolution of jet quenching form RHIC to the highest LHC energies  Ivan Vitev	(Anti-)deuteron production and anisotropic flow measured with AL- ICE at the LHC Ramona Lea	Heavy-flavour correlations and multiplicity dependence in pp and p–Pb collisions with ALICE Fabio Filippo Colamaria
10:00	In-medium quarkonium properties from a lattice QCD based effective field theory  Alexander Rothkopf	In-medium jet evolution: interplay between broadening and decoherence effects  Liliana Apolinario	Event shape engineering with the ALICE detector  Anthony Robert Timmins	Medium-effects on heavy-flavour production in large and small systems  Andrea Beraudo

10:20-10:50 **Coffee Break** 

Coffee Break

# Tuesday, September 29<sup>th</sup> (2)

10:50-12:30 Parallel 10:50	Jets and High pT Hadrons III  (KFM Hall "IO", chair: Carlos Albert Salgado Lopez)  A Comprehensive Analysis of Jet Quenching via a Hybrid Strong/Weak Coupling Model for Jet-Medium Interactions Daniel Pablos	Correlations and Fluctuations III  (Exhibition Space 1-B, chair: Sandra Padula)  PHENIX results on fluctuations and Bose-Einstein correlations in Au+Au collisions from the RHIC Beam Energy Scan Prakhar Garg	Collective Dynamics II  (Exhibition Space 2-B, chair: Chiho Nonaka)  Anisotropic hydrodynamics for conformal Gubser flow Michael Strickland	Open Heavy Flavors and Strangeness IV (Convention Room 1, chair: Paolo Giubellino)  Heavy quark suppression and D-hadron (D-D) correlations in heavy-ion collisions Shanshan Cao
11:10	Consistency of Perfect Fluidity and Jet Quenching in semi- Quark-Gluon Monopole Plasmas Jiechen Xu	Femtoscopy of identified particles in Pb-Pb collisions with ALICE at the LHC Ludmila Malinina	Decorrelation of anisotropic flow along the longitudinal direction  LongGang Pang	Measurements of $D_s^{\pm}$ -meson $R_{CP}$ and $v_2$ in Au+Au collisions at $\sqrt{s_{NN}}$ =200 GeV in STAR Nasim $Md$
11:30	Direct-photon+hadron correlations to study parton energy loss with the STAR experiment Nihar Sahoo	Femtoscopic measurements in p+Pb collisions at $\sqrt{s_{NN}}=5.02$ TeV with the ATLAS detector Markus Kohler	Hydrodynamic fluctuations and dissipation in an integrated dynamical model Koichi Murase	Measurements of Open Heavy Flavor Production in Semi-leptonic Channels in p+p, U+U and Au+Au Collisions at STAR Xiaozhi Bai
11:50	PHENIX results on jet correlations via high- $p_T$ hadrons and photons Ali Hanks	Observable consequences of event-by-event fluctuations of HBT radii  Christopher Plumberg	The Rapidity Density Distributions and Longitudinal Expansion Dynamics of Identified Pions from the STAR Beam Energy Scan Chris Flores	PHENIX results on heavy-flavor yields at forward rapidity  Melynda Brooks
12:10	Azimuthal anisotropy of charged jet production in $\sqrt{s_{\mathrm{NN}}}=2.76$ TeV Pb–Pb collisions with AL-ICE Redmer Alexander Bertens	Measuring baryon-(anti-)baryon interaction cross-sections with femtoscopy in heavy-ion collisions  Adam Kisiel	Studies on longitudinal fluctuations of anisotropy flow event planes in PbPb and pPb collisions at CMS  Maxime Guilbaud	RAA and v2 of muons from heavy- quark decays in lead-lead collisions at sqrt(sNN)=2.76TeV with the ATLAS de- tector Alexander Milov
12:30-14:00	Lunch		Lunch	

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# Tuesday, September 29<sup>th</sup> (3)

14:00-16:20 Parallel	Jets and High pT Hadrons IV (KFM Hall "IO", chair: Yves Schutz)	Correlations and Fluctuations IV (Exhibition Space 1-B, chair: Fuqiang Wang)	QGP in Small Systems II (Exhibition Space 2-B, chair: Gunther Roland)	Future Experimental Facilities, Upgrades, and Instrumentation (Convention Room 1, chair: Megumi Naruki)
14:00	Dynamical energy loss as a novel tomographic tool of QGP at RHIC and LHC Magdalena Djordjevic	Magnetihydrodynamics and charged flow in non-central heavy ion collisions  Umut Gursoy		Prospects for the dense baryonic matter research at NICA Vladimir Kekelidze
14:20	Jet Formation and Interference in Quark Gluon Plasma Jorge Casalderrey Solana	Charge-dependent correlations from event-by-event anomalous hydrodynamics  Yuji Hirono	tive) - Different Theoretical Approaches	Studies of high density baryon matter with high intensity heavy-ion beams at J-PARC Hiroyuki Sako
14:40	PHENIX results on reconstucted jets in $p+p$ and heavy ion collisions $Arbin\ Timilsina$	The ridge and di-hadron correlations from the Beam Energy Scan at RHIC  Liao Song	imuthal correlations in pp collisions at	Nuclear collisions at the Future Circular Collider  Nestor Armesto Perez
15:00	Semi-inclusive charged jet measurements in Au+Au collisions at $\sqrt{s_{NN}}=200~{\rm GeV}$ with STAR Peter Martin Jacobs	Forward-backward multiplicity fluctuation and longitudinal harmonics in high-energy nuclear collisions Peng Huo	Azimuthal anisotropy harmonics from long-range correlations in high multiplicity pp collisions at CMS  Zhenyu Chen	The STAR Heavy Flavor Tracker and Upgrade Plan  Giacomo Contin
15:20	Measurement of high $p_{\rm T}$ photons and neutral mesons in $pp$ and Pb-Pb collisions at mid-rapidity with ALICE Astrid Morreale	Measurement of two-particle pseudorapidity correlations in proton-lead and lead-lead collisions with the ATLAS detector Jiangyong Jia		s PHENIX calorimeter design and jet performance $\label{eq:John Haggerty} John\ Haggerty$

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# Tuesday, September 29<sup>th</sup> (4)

14:00-16:20 (Continued)	(Jets and High pT Hadrons IV)	(Correlations and Fluctuations $IV$ )
15:40	Jet suppression and the flavor dependence of partonic energy loss with ATLAS  Tomas Kosek	Forward-central two-particle correlations in p-Pb collisions at $\sqrt{s_{NN}}=5.02~{\rm TeV}$ Evgeny Kryshen
16:00	New results on inclusive and reaction plane dependent dijet asymmetry in Pb+Pb collisions with ATLAS  Dennis Vadimovich Perepelitsa	Multiplicity and transverse momentum dependence of electric charge balance functions  Panos Christakoglou
16:20-16:30	Short Break	
16:30-18:30	Poster Session (Exhibition space 3 & 4)	
19:00-20:00	Social event: "Gagaku" play (A and Dances of Japan) (KFM Hall "IO")	Ancient Imperial Court Music

# Tuesday, September 29<sup>th</sup> (4)

(QGP in Small Systems II)	(Future Experimental Facilities, Upgrades, and Instrumentation)
Causal hydrodynamic fluctuation ir Bjorken expansion Kenichi Nagai	Upgrade of the ALICE Inner Tracking System Petra Riedler
Saturation or collectivity in p+A collisions at RHIC and LHC?  Adam Bzdak	The ALICE TPC: from wires to GEMs  Chilo Garabatos Cuadrado

# Wednesday, September 30<sup>th</sup> (1)

9:00-10:20 Parallel	Collective Dynamics III (KFM Hall "IO", chair: Boris Hippolyte)	Quarkonia III (Exhibition Space 1-B, chair: Su Houng Lee)	(1	Electromagnetic Probes I Exhibition Space 2-B, chair: Charles Gale)	Quark Matter in Astrophysics (Convention Room 1, chair: Bikash Sinha)
9:00	Does non-monotonic behavior of directed flow signal the onset of deconfinement?  Yasushi Nara	Charmonium and bottomonium spectral functions from lattice QCD at finite temperature Hiroshi Ohno	d <sub>s</sub>	Thermal photons from a modern hydro- lynamical model of heavy ion collisions: tatus of the direct photon puzzle Hean-Francois Paquet	Lattice QCD for Baryon Rich Matter – Beyond Taylor Expansions Atsushi Nakamura
9:20	Bulk evolution of heavy ion collisions in the beam energy scan:  New developments and first results  Bjoern Schenke	Spectral Functions from anisotropic Lattice QCD.  Maria Paola Lombardo	ti	et fragmentation photons in ultrarela- ivistic heavy-ion collisions Koichi Hattori	QCD constraints on the equation of state for compact stars $Eduardo\ Fraga$
9:40	Study of the Bulk Properties of the System Formed in Au+Au Collisions at $\sqrt{s_{NN}}=14.5~{\rm GeV}$ Using the STAR Detector at RHIC $Vipul~Bairathi$	Polarization and Production ver-	to	PHENIX measurements of thermal phoon production in Au+Au collisions  Richard Petti	Hot Neutron Stars with Hadron-Quark Crossover Kota Masuda
10:00	Measurements of Correlations between Anisotropic Flow Har- monics in Pb-Pb Collisions in ALICE You Zhou	CMS Charmonia results from Run I Yongsun Kim	A	Direct Photons in Pb-Pb collisions with ALICE Baldo Sahlmueller	Phenomenological QCD equations of state for massive neutron stars  Toru Kojo

10:20-10:50 **Coffee Break** 

Coffee Break

# Wednesday, September 30<sup>th</sup> (2)

10:50-12:30 Parallel 10:50	Collective Dynamics IV  (KFM Hall "IO", chair:  Raimond Snellings)  PHENIX results on centrality dependence of yields and correlations in d+Au collisions  Takao Sakaguchi	Quarkonia IV (Exhibition Space 1-B, chair: $Jean\text{-}Paul\ Blaizot$ ) $J/\psi$ and $\Upsilon$ measurements in the di-muon channel in Au+Au collisions at $\sqrt{s_{NN}}=200$ GeV with the STAR experiment $Rongrong\ Ma$	Electromagnetic Probes II  (Exhibition Space 2-B, chair: Harald Appelshaeuser)  PHENIX results on low-mass dileptons in Au+Au collisions with the Hadron Blind Detector Mihael Makek	Baryon Rich QCD Matter (Convention Room 1, chair: Claudia Hoehne)  Critical point search from an extended parameter space of lattice QCD at finite temperature and density Shinji Ejiri
11:10	Higher harmonic anisotropic flow of identified particles in Pb-Pb collisions with the ALICE detec- tor Naghmeh Mohammadi	Observation of a J/psi yield enhancement at very low pT in Pb-Pb collisions at 2.76 TeV  Gines Martinez-Garcia	System-size and energy dependences of dielectron excess invariant-mass spectra at STAR  Shuai Yang	Real time evolution of non-Gaussian cumulants in the QCD critical regime $Swagato\ Mukherjee$
11:30	Principle Component Analysis of two-particle correlations in PbPb and pPb collisions at CMS Jovan Milosevic	CMS bottomonia results from Run I Mihee Jo	Low-Mass Dielectron Measurements in pp, p-Pb and Pb-Pb Collisions with AL- ICE Patrick Simon Reichelt	Estimation of the shear viscosity at finite net-baryon density from A+A collision data at $\sqrt{s_{NN}}=7.7-200~{\rm GeV}$ Iurii Karpenko
11:50	Pinning down QCD-matter shear viscosity in A+A collisions via EbyE fluctuations using pQCD + saturation + hydrodynamics Harri Niemi	Upsilon suppression in the QGP at the LHC Georg Wolschin	Vector boson production in p+Pb and Pb+Pb collisions measured with ATLAS at the LHC Iwona Grabowska-Bold	Measurement of hadron suppression at 14.5 GeV and study of its connection with the disappearance of other QGP signatures at low $\sqrt{s_{NN}}$ in Au+Au collisions with STAR at RHIC in BES I Stephen Horvat
12:10	Elliptic Anisotropy $v_2$ May Be Dominated by Particle Escape instead of Hydrodynamic Flow $Zi\text{-}Wei\ Lin$	Dynamical upsilon-suppression in the Schroedinger-Langevin approach Pol Gossiaux	W and Z bosons in pp, pPb and PbPb with CMS  Emilien Chapon	PHENIX results on global observables and flow in Au+Au collisions from the RHIC Beam Energy Scan  Jeffery Mitchell

12:30-18:00 **Excursion** 

Excursion

Quark Matter 2015

Kobe, Japan

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Quark Matter 2015

Kobe, Japan

Thursday, October 1st

Thursday, October 1st

9:00-10:30	Plenary Session I
	(Atrium plaza, chair: $Nu Xu$ )
9:00	Overview of recent ALICE results
	Taku Gunji
9:30	ATLAS Highlights
	Aaron Angerami
10:00	Overview of recent heavy-ion results from CMS
	Byungsik Hong
10:30-11:00	Coffee Break
11:00-12:30	Plenary Session II
	(Atrium plaza, chair: Johanna Stachel)
11:00	PHENIX overview
	Axel Drees
11:30	Overview of recent results from the STAR experiment
	Mustafa Mustafa
12:00	Lattice QCD : bulk and transport properties of QCD Matter
	Claudia Ratti
12:30-12:35	Conference photo
12:35-14:00	Lunch

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14:00-16:00	Plenary Session III
	(Atrium plaza, chair: Krzysztof Redlich)
14:00	Experimental overview on flow observables in heavy ion collisions
	Soumya Mohapatra
14:30	Theory of collective dynamics : flow, fluctuations and correlations in
	heavy ion collisions
	Gabriel Denicol
15:00	Experimental overview on beam energy scan
	Xiaofeng Luo
15:30	QCD Critial Point and Related Observables
	Marlene Nahrgang
16:00-16:30	Coffee Break
16:30-18:30	Plenary Session IV
	Plenary Session IV
16:30-18:30	Plenary Session IV (Atrium plaza, chair: Dmitri Kharzeev)
16:30-18:30	Plenary Session IV (Atrium plaza, chair: Dmitri Kharzeev) Heavy-ion Collisions and Cosmology
16:30-18:30 16:30	Plenary Session IV (Atrium plaza, chair: Dmitri Kharzeev) Heavy-ion Collisions and Cosmology Stefan Floerchinger
16:30-18:30 16:30	Plenary Session IV (Atrium plaza, chair: Dmitri Kharzeev)  Heavy-ion Collisions and Cosmology Stefan Floerchinger Femtoscopy in Relativistic Heavy Ion Collisions: An Experimental
16:30-18:30 16:30	Plenary Session IV (Atrium plaza, chair: Dmitri Kharzeev)  Heavy-ion Collisions and Cosmology Stefan Floerchinger  Femtoscopy in Relativistic Heavy Ion Collisions: An Experimental Overview at the End of the Third Decade
16:30-18:30 16:30 17:00	Plenary Session IV (Atrium plaza, chair: Dmitri Kharzeev)  Heavy-ion Collisions and Cosmology Stefan Floerchinger Femtoscopy in Relativistic Heavy Ion Collisions: An Experimental Overview at the End of the Third Decade Mike Lisa
16:30-18:30 16:30 17:00	Plenary Session IV (Atrium plaza, chair: Dmitri Kharzeev)  Heavy-ion Collisions and Cosmology Stefan Floerchinger Femtoscopy in Relativistic Heavy Ion Collisions: An Experimental Overview at the End of the Third Decade Mike Lisa Chiral magnetic effect in heavy-ion collisions
16:30-18:30 16:30 17:00	Plenary Session IV (Atrium plaza, chair: Dmitri Kharzeev)  Heavy-ion Collisions and Cosmology Stefan Floerchinger  Femtoscopy in Relativistic Heavy Ion Collisions: An Experimental Overview at the End of the Third Decade Mike Lisa Chiral magnetic effect in heavy-ion collisions Jinfeng Liao

Friday, October 2<sup>nd</sup>

Friday, October 2<sup>nd</sup>

9:00-10:30	Plenary Session V
	(Atrium plaza, chair: <i>Itzhak Tserruya</i> )
9:00	Experimental overview on open heavy flavor
	Ralf Averbeck
9:30	Heavy quark transport and quarkonium production
	Pengfei Zhuang
10:00	Experimental overview on quarkonium production
	$Roberta\ Arnaldi$
10:30-11:00	Coffee Break
11:00-12:30	Plenary Session VI
	(Atrium plaza, chair: Dinesh Srivastava)
11:00	Initial state of the HIC: thermalization and isotropization
	Eero Aleksi Kurkela
11:30	Gravitational collapse, holography and hydrodynamics in extreme
	conditions
	Paul Chesler
12:00	Analytic approaches to relativistic hydrodynamics
	Yoshitaka Hatta
12:30-14:00	Lunch

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14:00-16:00	Plenary Session VII (Atrium plaza, chair: Barbara Krystyna Wosiek)
14:00	Experimental overview on jets and high pT hadrons $Matthew\ Nguyen$
14:30	Theoretical Developments in pQCD energy loss mechanism $\label{eq:cd} \textit{Yacine Mehtar-Tani}$
15:00	Experimental overview on EM observabules  Yosuke Watanabe
15:30	Theoretical Overview on Electromagnetic radiations from QGP fluids ${\it Chun~Shen}$
16:00-16:30	Coffee Break
16:30-18:30	Special session on "QGP in small systems?"  (Atrium plaza, chair: Jurgen Schukraft)
16:30	Experimental overview on small colliding systems at RHIC Paul Stankus
16:50	Experimental overview on small colliding systems at LHC $Constantinos\ Loizides$
17:10	Hydrodynamics Piotr Bozek
17:30	Pre-equillibrium dynamics Soeren Schlichting
17:50	Summary of other reasonable theoretical ideas $Paul\ Romatschke$
18:10	round table discussion
20:00-22:00	Conference Dinner (ANA Crowne Plaza Hotel Kobe, the Ballroom (10F))

## Saturday, October 3<sup>rd</sup>

9:00-10:50	Plenary Session VIII (Atrium plaza, chair: William Zajc)
9:00	Neutron star mergers, high density EoS, and gravitational waves  Masaru Shibata
9:30	Gluon saturation and EIC  Ernst Sichtermann
10:00	Prospects of LHCb in heavy ion physics  Giulia Manca
10:20	Future of Heavy Ion Physics Shoji Nagamiya
10:50-11:20	Coffee Break
11:20-12:50	Flash talks, Awards, Next QM (Atrium plaza)

### **Social Events**

September 27th, Sunday, 16:30 -: Welcome Drink on the 9th floor of the Conference Venue.

September 29th, Tuesday, 19:00 - : "Gagaku" Play (Ancient Imperial Court Music and Dances of Japan) on the 9th floor of the Conference Venue.

September 30th, Wednesday afternoon: Excursion.

October 2nd, Friday, 20:00 - : **Conference Dinner (Banquet)** on the 10th floor of ANA Crowne
Plaza Hotel Kobe near Shin-Kobe Station. (Please see a map to
get to the Banquet Place in the next page.)

### **Excursion**

In the afternoon of Wednesday, September 30th, several excursions will take place.

http://gm2015.riken.jp/index.php?id=22

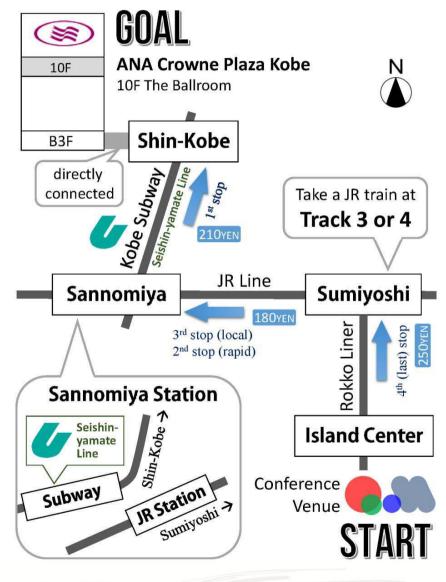
Detail announcement (departure time, bus location) will be given during the Conference.

On-site registration will be accepted. If you would like to join the excursions, please contact JTB desk.

Several tours for the accompanied persons will be organized by JTB. Please contact JTB desk for more detailed information and registration.

### **Getting to the Banquet Place**

It takes 30  $^{\sim}$  40 minutes from the conference venue to the banquet place using Rokko-Liner, JR line and Kobe Subway. You need to change trains twice.



### **Train from Sannomiya Station to the conference venue**

When you come from Sannomiya Station to the conference venue, you need to transfer from JR (Japan Railway) line to Rokko-Liner at Sumiyoshi Station. However, special rapid service trains do not stop at Sumiyoshi Station. Please check a time table to get on **local** or rapid service trains at Sannomiya Station.

Time table of trains from Sannomiya station(三ノ宮) to Sumiyoshi (住吉), Monday - Friday. (Track 1 or 2 in Sannomiya Station.)



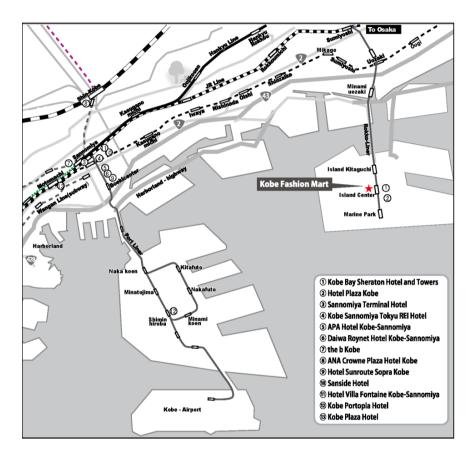
[普通] = Local Train -> OK

[快速] = Rapid Service Train -> OK

[新快] = Special Rapid Service Train -> NG

## **Hotel Map**

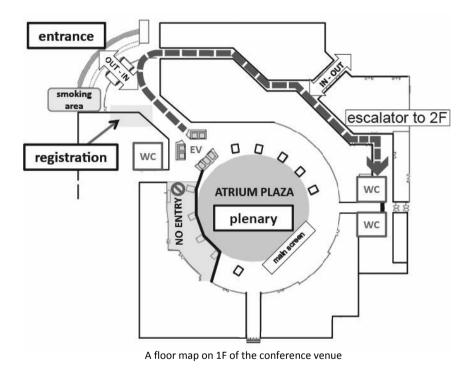
Main hotels for QM2015 participants are shown in a following map. Kobe Fashion Mart is the conference venue. Lunch is served at ① Kobe Bay Sheraton Hotel & Towers. The conference dinner (Banquet) place is ② ANA Crowne Plaza Hotel Kobe.



### Lunch

Lunch is served at 4 halls, **Rokko Ballroom**, **Ocean**, **Kitano** and **Island** at **Kobe Bay Sheraton Hotel & Towers**. Please bring your name tag to the halls. **Vegetarian and any special meals**are served **only at Ocean Hall**.

How to get to Lunch Halls: The hotel is located on the east side of the railway station. Take the escalator to the 2nd floor (2F) and exit the building. You can reach the hotel entrance through a walkway across the railway in one minute.



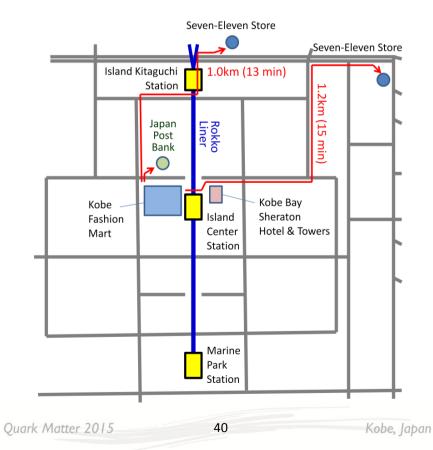
Wednesday, September 30th: Box lunches are provided at the cafeteria on 9th floor of the conference venue. Please make sure to take it before getting on a bus, if you join an excursion.

### **Hospital / Clinic / Pharmacy**

In case of the medical emergency, please contact the local organizers at the conference office. There are some hospitals, clinics and pharmacies near the conference venue (Kobe Fashion Mart).

### **ATM**

Japan Post Bank in front of the conference venue and Seven-Bank in Seven-Eleven stores may accept your international brand credit, debit, prepaid and cash cards such as VISA, MasterCard, 中国銀聯, American Express, JCB, Discover and Diners Club. Business hours of Japan Post Bank (ATMs) are 9:00 - 19:00 on Saturday, 9:00 - 19:00 on Sunday and 8:00 - 20:00 on the other days. Seven-Eleven Stores are open for 24 hours.



### **Financial Supporters**

Financial support by laboratories, institutes, and universities, and donations by companies.

























