



Key Laboratory of Quark and Lepton (MOE) & Institute of Particle Physics, Central China Normal University https://indico.ihep.ac.cn/event/10094



College of Physical Science and Technology Center China Normal University Wuhan, November 12 – 14, 2019 https://indico.ihep.ac.cn/event/10094



## **CONTENTS**

Contents	1
Conference venue	2
Contact	2
Programme	3
Timetable	3
Tuesday 12 November	4
Wednesday 13 November	8
Thursday 14 November 1	LO
Notes 1	<b>L</b> 2



College of Physical Science and Technology Center China Normal University Wuhan, November 12 – 14, 2019 https://indico.ihep.ac.cn/event/10094



## **CONFERENCE VENUE**

Conference room: 409, Building 9 of CCNU

Address: 152 Luoyu Road, Hongshan District, Wuhan

430079, Hubei, China

## **CONTACT**

Email: maya@mail.ccnu.edu.cn

Emergency contacts (in case of emergency, otherwise

please use e-mail):

Workshop secretariat: +86-15527890078

Local Police:call 110Medical emergency:call 120Fire emergency:call 119Traffic Accidents:call 122

## Members of the LOC:

Feng Liu, Xiaofeng Luo (co-chair), Shusu Shi, Yaping Wang, Nu Xu (co-chair)



College of Physical Science and Technology Center China Normal University Wuhan, November 12 – 14, 2019 https://indico.ihep.ac.cn/event/10094



## **TIMFTABLE**

	Workshop Dinner (Taizi)	Dinner (Guiyuan Hotel)	18:30 – 21:00	
	CITICATILY-II	Chirality	16:00 - 18:00	
	Criticality II	Penetrating Probe	14:00 – 16:00	IIIV
	Lunch Break		12:30 – 14:00	IC I <i>f</i>
Netated Topics	CHILICALITY-1	Collectivity	11:00 - 12:30	ABL
Dolated Tenies	Criticality I	Overviews	8:30 – 11:10	.E
Thursday (Nov. 14)	Wednesday (Nov. 13) Thursday (Nov. 14)	Tuesday (Nov. 12)		







College of Physical Science and Technology Center China Normal University Wuhan, November 12 – 14, 2019 https://indico.ihep.ac.cn/event/10094



## SCIENTIFIC PROGRAM

## **Tuesday, November 12**

08:00-08:30 Registration

Session: Overviews

Chair: Zhangbu Xu (SDU/BNL)

08:30-08:40 Welcome Address (TBD)

08:40-09:10 Joachim Stroth (Frankfurt University)

"Status of CBM\HADES at FAIR"

09:10-09:40 Zhigang Xiao (THU)

"Probing the high-density nuclear matter with the CSR External-target

Experiment CEE"

09:40-10:10 Adam Kisiel (WUT)

"The construction and physics

performance of the MPD experiment

at JINR "

10:10-10:40 Peter Senger (GSI/CCNU)

"Cosmic matter in the laboratory: experiments at FAIR and NICA"

10:40-11:00 Coffee Break



College of Physical Science and Technology Center China Normal University Wuhan, November 12 – 14, 2019 https://indico.ihep.ac.cn/event/10094



Session: Collectivity

Chair: ShinIchi Esumi (Tsukuba University)

11:00-11:30 Subhash Singha (IMP)

"Directed flow from RHIC Beam Energy Scan Au+Au collisions using

the STAR Experiment"

11:30-12:00 Kishora Nayak (CCNU)

"Recent Results of the Identified Particles v1 and v2 in STAR at RHIC"

12:00-12:30 Xionghong He (IMP)

"Beam-Energy Dependence of the Deuterons v1 in Au+Au Collision"

12:30-14:00 Lunch Break



College of Physical Science and Technology Center China Normal University Wuhan, November 12 – 14, 2019 https://indico.ihep.ac.cn/event/10094



Chair: Joachim Stroth (Frankfurt University)

14:00-14:30 Yifei Zhang (USTC)

"Bottom Production at RHIC: too

heavy to be moved"

14:30-15:00 Zhangbu Xu (SDU/BNL)

"Probing Extreme Electromagnetic

Fields with the Breit-Wheeler Process"

15:00-15:30 Kenji Fukushima (Tokyo University)

"Hadronic EoS at Finite Baryon

Density"

15:30-16:00 Najmul HAQUE (NISER)

"Thermomagnetic effects in Heavy

Ion Collisions"

16:00-16:20 Coffee Break



College of Physical Science and Technology Center China Normal University Wuhan, November 12 – 14, 2019 https://indico.ihep.ac.cn/event/10094



Session: Chirality

Chair: Feng Liu (CCNU)

16:20-16:50 Sourav Kundu (NISER)

"Spin alignment studies in heavy-ion

collisions"

16:50-17:20 Pritwish Tribedy (BNL)

"New developments in CME search at low collision energies with the

STAR detector"

17:20-17:50 Gang Wang (UCLA)

"Background study for the chiral magnetic effect using AMPT"

17:50-18:20 Zhokhov Roman (IHEP, Russia)

"Dualities of the QCD phase diagram: large baryon density, isospin and

chiral imbalance"

18:30-20:00 **Dinner at Guiyuan** 



College of Physical Science and Technology Center China Normal University Wuhan, November 12 – 14, 2019 https://indico.ihep.ac.cn/event/10094



## Wednesday, November 13

Session: Criticality -I

Chair: Sourendu Gupta (TIFR)

08:30-09:00 Yi Yin (IMP)

"The search for the QCD critical point:

challenges, progress and

perspectives"

09:00-09:30 Heng-Tong Ding (CCNU)

"Critical behavior of QCD transition

from Lattice"

09:30-10:00 Swagato Mukherjee (BNL)

"QCD phase diagram from the lattice"

10:00-10:30 Jan M. Pawlowski (Heidelberg Univ.)
"Criticality. CEP & the OCD phase

structure from functional QCD"

10:30-11:00 Coffee Break

Chair: Bedangadas Mohanty (NISER)

11:00-11:30 Toshihiro Nonaka (CCNU)

"Measurements of the sixth-order

cumulants of net-particle

distributions"

11:30-12:00 Ashish Pandav (NISER)

"Measurement of cumulants of netparticle distributions in Au+Au collisions at 54.4 GeV at RHIC"

12:00-12:30 Dingwei Zhang (CCNU)

"Light nuclei production (d,t) in

Au+Au collisions at 7.7 – 200 GeV

from STAR"

12:30-14:00 Lunch Break



College of Physical Science and Technology Center China Normal University Wuhan, November 12 – 14, 2019 https://indico.ihep.ac.cn/event/10094



Session: Criticality -II

Chair: Jinfeng Liao (Indiana University)

14:00-14:30 Aihong Tang (BNL)

"Probe chiral magnetic effect with

signed balance function"

14:30-15:00 Abdek Nasser Tawfik (ECTP, Nile Univ.)

"QCD phase structure at finite

isospin asymmetry"

15:00-15:30 Jin Wu (CCNU)

"Measurement of Intermittency for Charaed Particles in Au+Au Collisions

at 7.7 - 200GeV from STAR"

15:30-15:50 Arabinda Behera (SBU)

"New insights on longitudinal

dynamics from LHC"

15:50-16:10 Coffee Break

Chair: Xiaofeng Luo (CCNU)

16:10-16:40 Xin An (UIC)

"Relativistic Hydrodynamic

Fluctuations and QCD Critical Point"

16:40-17:10 Jiangyong Jia (Stonybrook University)

"Centrality fluctuations in heavy-ion

collisions"

17:10-17:40 Tianhao Shao (SINAP)

"Probing QCD critical fluctuation from strange hadron production in central relativistic heavy-ion

collisions"

17:40-18:10 Tapan Nayak (CERN/NISER)

"Can we access the Equation of State from experimental observables?"

18:30-21:00 Workshop Dinner

Taizi restaurant



College of Physical Science and Technology Center China Normal University Wuhan, November 12 – 14, 2019 https://indico.ihep.ac.cn/event/10094



## **Thursday, November 14**

Session: Related Topics

Chair: Shusu Shi (CCNU)

08:30-09:00 Muhammad Usman Ashraf (CCNU)

"Strangeness production in BES and

FXT energies"

09:00-09:30 Olaf Kaczmarek (Bielefeld Univ./CCNU)

"Heavy quark spectral and transport

properties in the QGP"

09:30-10:00 Jan Hammelmann (FIAS)

"SMASH - neutron skin and

fluctuations in a hadronic transport

approach"

10:00-10:30 *Coffee Break* 



College of Physical Science and Technology Center China Normal University Wuhan, November 12 – 14, 2019 https://indico.ihep.ac.cn/event/10094



Session: Related Topics

Chair: Nu Xu (CCNU/IMP)

10:30-11:00 Lokesh Kumar (Panjab University)

"Chemical and Kinetic Freeze-out Condition from Heavy-ion collisions

at STAR at RHIC"

11:00-11:15 Kosuke Okubo (Tsukuba University)

"Measurements of the Lambda polarization in Au+Au collisions at

54GeV"

11:15-11:45 Debasish Mallick (NISER)

"Probing thermal nature of matter formed at RHIC via fluctuations"

Yuri Sato (Tsukuba University)

"Centrality determination with new

detector EPD at STAR"

12:00-12:30 Arghya Chatterjee (CCNU)

"Off-diagonal cumulants of netparticle multiplicity distributions in Au+Au collisions and effect of

centrality selection net-proton

cumulant analysis"

12:30 Lunch Break

11:45-12:00

**End of the Workshop** 



College of Physical Science and Technology Center China Normal University Wuhan, November 12 – 14, 2019 https://indico.ihep.ac.cn/event/10094



## **NOTES**





13





14









16

















20



MOE Key Laboratory of Quark and Lepton Physics & Institute of Particle Physics College of Physical Science and Technology Central China Normal University

