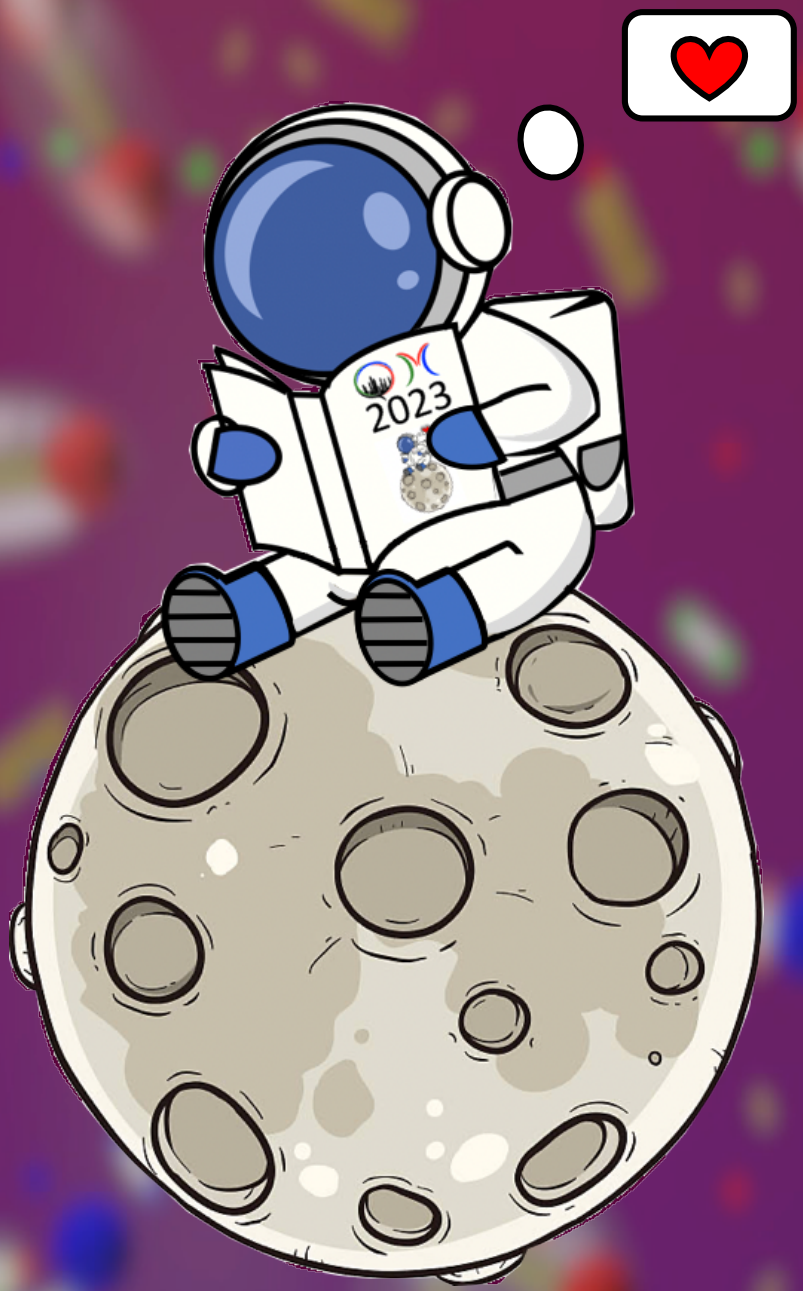
SEPTEMBER 3-9, 2023 | HOUSTON, TEXAS

Quark Matter 2023

The 30th International Conference on Ultrarelativistic Nucleus-Nucleus Collisions



Program

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WELCOME TO THE XXXTH INTERNATIONAL CONFERENCE ON ULTRA-RELATIVISTIC NUCLEUS-NUCLEUS COLLISIONS

QUARK MATTER 2023

Quark Matter 2023 is the XXXth International Conference on Ultra-Relativistic Nucleus-Nucleus Collisions, which will be held in Houston, Texas, USA. This conference brings together theoretical and experimental physicists from around the world to discuss new developments in high-energy heavy-ion physics. The focus of the discussions is on the fundamental understanding of strongly-interacting matter at extreme conditions, as formed in ultra-relativistic nucleus-nucleus collisions, as well as on emergent QCD phenomena in high-multiplicity proton-proton and proton-nucleus collisions.

Quark Matter 2023 consists of five and a half days of scientific program, starting on Monday, September 4th in the morning and ending on Saturday, September 9th. A Students' Day precedes the conference on Sunday, September 3rd. The conference will take place in Houston, Texas (USA) at the Hilton of the Americas Hotel. The main organizational institutions are the University of Houston, Rice University, and Texas A&M University

SPONSORS

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Ralf Rapp
Claudia Ratti

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Michael Strickland
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Anthony Timmins
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CODE OF CONDUCT

DIVERSITY PLEDGE

Diversity is one of the core values of the QM 2023 organization, and will be respected and promoted at QM 2023 at all times and in all its forms. The key goals of our effort will be

- to seek and listen to diverse voices
- embrace differences
- create equal opportunities
- ensure fair treatment
- foster a collaborative conference environment

CODE OF CONDUCT

It is the expectation of the conference organizers that all participants, including attendees, vendors, and all other stakeholders will conduct themselves in a professional manner that is welcoming to all participants and free from any form of discrimination, harassment, or retaliation.

Participants will treat each other with respect and consideration to create a collegial, inclusive, and professional environment at Quark Matter 2023. Creating a supportive environment to enable scientific discourse at meetings is the responsibility of all participants.

Participants will avoid any inappropriate actions or statements based on individual characteristics such as age, race, ethnicity, sexual orientation, gender identity, gender expression, marital status, nationality, political affiliation, ability status, educational background, or any other characteristic protected by law. Disruptive or harassing behavior

of any kind will not be tolerated. Harassment includes but is not limited to inappropriate or intimidating behavior and language, unwelcome jokes or comments, unwanted touching or attention, offensive images, photography without permission, and stalking. Any violation of these guidelines should be reported to the conflict resolution committee, chaired jointly by **Prof. Vickie Greene** (Vanderbilt University, senta.v.greene@vanderbilt.edu) and **Prof. Daniel Cebra** (UC Davis, cebra@physics.ucdavis.edu). The committee will follow up, in confidentiality, with the accuser and the accused prior to taking any action.

For code of conduct violation resolution, please see the details on the QM2023 webpage.

CONFERENCE VENUE

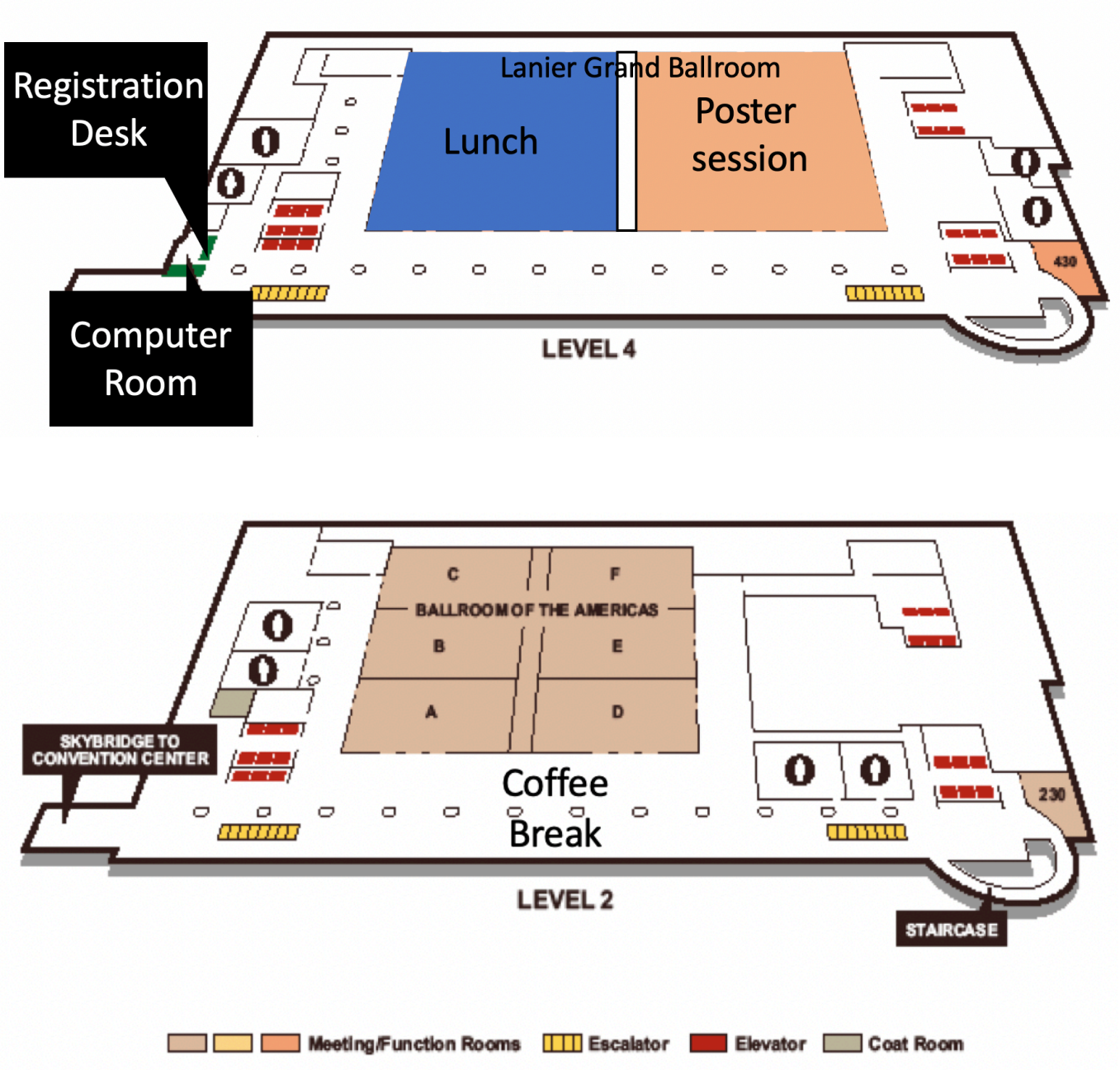
The conference will take place at the Hilton of the Americas flagship hotel in the conference center in downtown Houston, Texas. The address is 1600 Lamar, Houston, TX 77010.

All plenary sessions, as well as parallel sessions, will take place in the Grand Ballroom on the 2nd floor. The Ballroom will be split into breakout rooms on the parallel session days.

All lunches and the Poster Session will take place on the 4th floor.

There are a Conference Office, the Registration Desk and a Computer Room on the 4th floor. The latter can be used for speakers to upload and test their presentations during working hours. In case of any problem, you can ask for help at the registration desk.

FLOOR PLAN


Registration Desk
Computer Room
Lanier Grand Ballroom
Lunch
Poster session
430
LEVEL 4
C
F
BALLROOM OF THE AMERICAS
B
E
A
D
SKYBRIDGE TO CONVENTION CENTER
Coffee Break
230
LEVEL 2
STAIRCASE
Meeting/Function Rooms
Escalator
Elevator
Coat Room

PRACTICAL INFORMATION

PUBLIC TRANSPORT

All QM participants are provided with four METRORail tickets, to reach the Reception and Ballet Performance Venues.

TAXI

We recommend that you use Uber or Lyft for moving around Houston and from the Airport to the Conference Venue. Taxi services are also available:

- Checker Yellow Cabs: +1 281 616 5096
- Yellow Cab: +1 713 236 1111
- Aarons Taxi Service: +1 888 610 7473

CONFERENCE WEBPAGE AND SOCIAL MEDIA

Home page: http://qm2023.phys.uh.edu

https://www.facebook.com/groups/qm2023

Indico: https://bit.ly/qm2023

@QM2023

CONFERENCE APP

Please download the HEPCon app and navigate to the QM2023 event

CONTACT

EMAIL

Email: qm2023@uh.edu

EMERGENCY CONTACTS

Conference Secretariat (only in case of emergency): +1 313 205 6726 or +1 832 939 7432

Police & Medical Emergency: 911

INTERNET CONNECTION

Wi-fi is available in the meeting rooms of the conference venue.

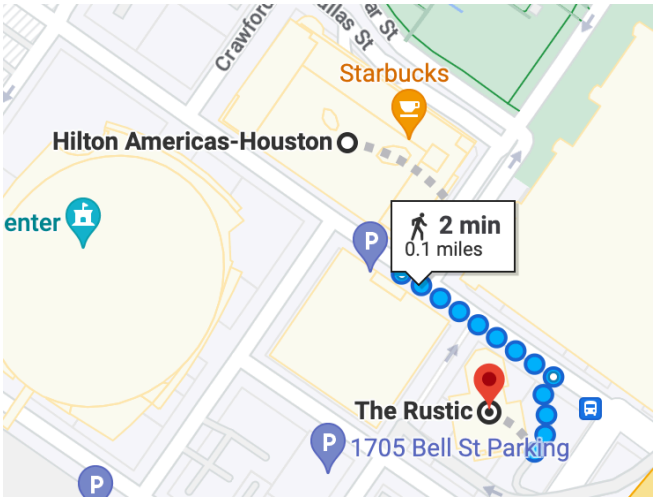
SOCIAL PROGRAM

SUNDAY SEPTEMBER 3RD - H:19:00-22:00

An evening at the Rustic with food and music. For students and student day lecturers.

Venue: The Rustic – 1836 Polk St.

How to reach: walk 0.2 miles to The Rustic



MONDAY SEPTEMBER 4TH - H:19:30-22:00

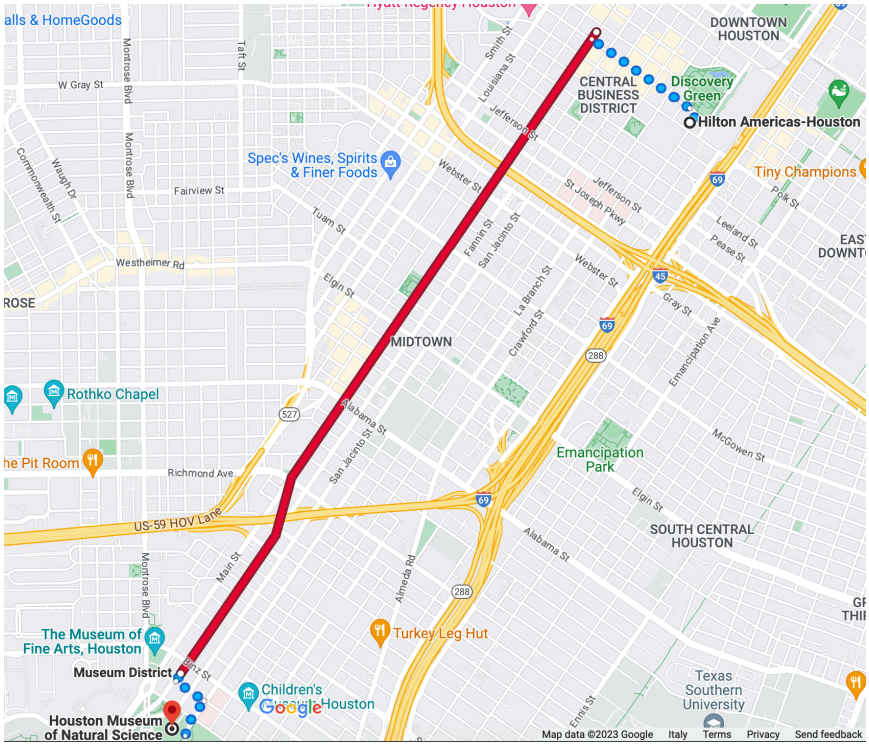
Reception

Venue: The Houston Museum of Natural Sciences – 5555 Hermann Park Dr.

How to reach: Walk to Main Street, take the **Red** METRORail and get off at the **Museum District** stop

Return: Take the **Red** METRORail at the **Museum District** stop and get off at the **Bell NB** stop.

METRORail tickets are provided in your welcome package



AM **Hilton Americas-Houston**
1600 Lamar St, Houston, TX 77010, United States

Walk
About 9 min, 0.5 mi

AM **Main Street Square SB**

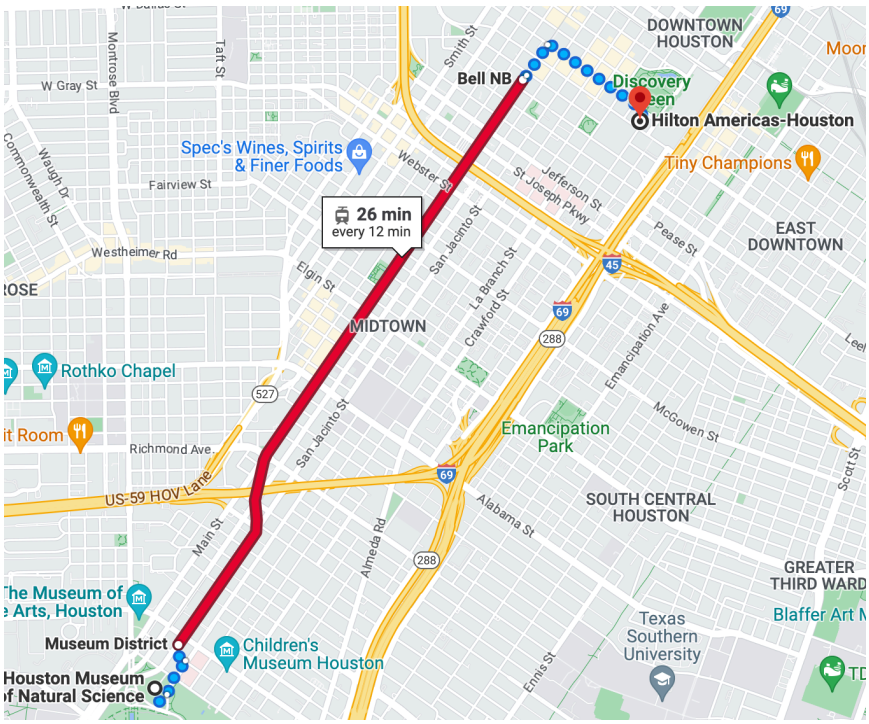
Red METRORail - FANNIN SOUTH
12 min (6 stops) · Stop ID: 25028

AM **Museum District**

Walk
About 6 min, 0.3 mi

AM **Houston Museum of Natural Science**
5555 Hermann Park Dr, Houston, TX 77030, United States

Return:



AM **Houston Museum of Natural Science**
5555 Hermann Park Dr, Houston, TX 77030, United States

Walk
About 5 min, 0.2 mi

AM **Museum District**

Red Northline TC
10 min (5 stops) · Stop ID: 25015

AM **Bell NB**

Walk
About 11 min, 0.6 mi

AM **Hilton Americas-Houston**
1600 Lamar St, Houston, TX 77010, United States

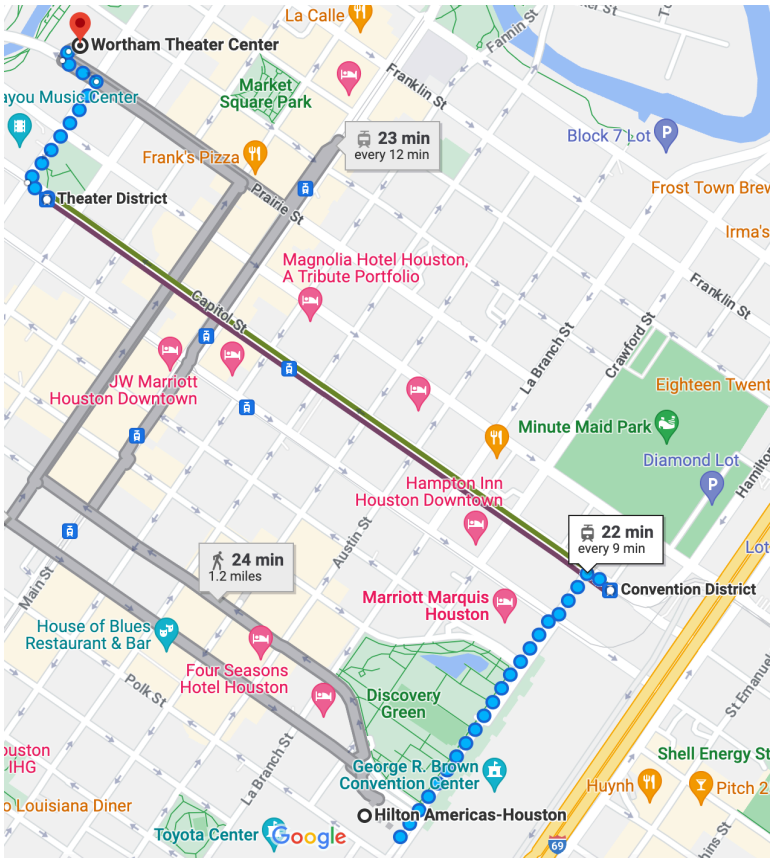
WEDNESDAY SEPTEMBER 6TH - H:19:30-22:00

Houston Ballet Performance

Venue: Wortham Theater, 501 Texas Ave.

How to reach: Walk to Capitol Street, take the **Green** METRORail and get off at the **Theater District** stop. Walk to the Wortham Theater

Return: Walk to Capitol Street, take the **Green** METRORail and get off at the **Convention District EB** stop. Walk to the Hilton Americas Hotel



AM **Hilton Americas-Houston**
1600 Lamar St, Houston, TX 77010, United States

Walk
About 8 min, 0.4 mi

AM **Convention District**

Green Downtown
9 min (2 stops) · Stop ID: 25056 ·

AM **Theater District**

Walk
About 5 min, 0.2 mi

AM **Wortham Theater Center**
501 Texas Ave, Houston, TX 77002, United States

THURSDAY SEPTEMBER 7TH - H:13:00-18:00

Excursion to NASA

A conference trip to the NASA Space Center Houston has been arranged for Thursday afternoon. Tickets had to be purchased online from the QM2023 webpage prior to the conference. The fee covers the bus ride to and from the Space Center, and visits to the Space Center, Mission Control and the Rocket Park. The Rocket Park displays the largest ever built rocket - the Saturn V. This type of 30-story tall rocket was used for 9 trips into outer space (six of which landed on the Moon) carrying 27 Apollo astronauts.

A boxed lunch will be provided by the Hilton between 12.30 and 1 p.m.

Buses will depart from the side entrance of the Hilton hotel on Avenidas de las Americas at 1 p.m. at return to the hotel at 6 p.m. The bus ride takes about 30 minutes each way.

FRIDAY SEPTEMBER 8TH - H:20:00-22:30

Banquet dinner

Venue: Hilton of the Americas Hotel – Ballroom of the Americas

Banquet dinner talk: The Ig Nobel Prize – Marc Abrahams

RESTAURANT SUGGESTIONS

American
1. Pappadeaux Seafood Kitchen $$$
2. Hearsay on the Green $$
3. The Grove $$
4. 1600 Bar + Grille
5. Rodeo Goat $$
6. MKT Bar $$

Steak
7. Toro Toro $$$$
8. Pappas Bros. $$$$
9. Saltgrass $$
10. Vic & Anthony's $$$$
11. Morton's Steakhouse $$$$
12. McCormick & Schmick's $$$

Seafood
1. Pappadeaux Seafood Kitchen $$$
12. McCormick & Schmick's $$$
10. Vic & Anthony's $$$
13. Zydeco Louisiana Diner S

Chinese
14. Wok & Roll $$
15. Doozo's Dumplings & Noodles $

Mexican
16. Xochi $$$
17. Pappasito's Cantina $$
18. Guadalajara del Centro $$
19. El Regio

Barbecue
20. Otto's $$
21. Charlie's BBQ & Salads
22. Cobo's
23. The smoke
24. Pappa's Bar-B-Q

Italian/Pizza
25. Vinoteca
26. Grotto $$
27. Potente $$$$
28. Russo's Pizzeria $$

INFORMATION FOR PRESENTERS

TALKS

Speakers of the Keynote Talk, Conference Summary and Outlook, and Highlights from the Experimental Collaborations have been advised of the time reserved for their talks in the invitation. There will be no discussions for these talks.

All other **Plenary Talks** are allocated for 25 minutes, plus 5 minutes for discussion. The **Flash Talks have** 5 minutes each, without discussions (maximum 3 slides). All **Parallel Talks** are allocated for 15 minutes, plus 5 minutes for discussion. It is very important, for the success of the parallel program and given the density of talks, that all speakers finish their talk on time and that chairs make sure that the discussion does not run beyond the allocated time for each talk.

All presentations will be projected in the 16:9 format using laptops running Mac OS. **It will not be possible to use personal laptops for the presentations.** The talks must be uploaded to indico by 4 pm the day before the presentation. **Please provide the slides in the PDF format**. The ppt format can only be used if the presentation contains physics-related animations. **To upload your talk, please log into the QM 2023 indico site** (using the email address you registered with) and click on **My Contributions**. If you have any problems uploading your talk to indico, the following link https://cernbox.cern.ch/s/nDHt8c3aSgSJf1g can be used as a backup to upload your talk. Please include your first and last names in the filename.

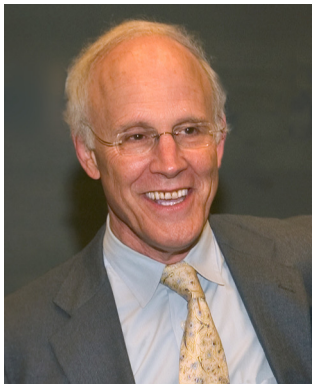
If a ppt/pptx format is chosen, it is the speaker's responsibility to check the quality of the file (font and equation compatibility, animations, audio, video, layout) before the aforementioned deadline.

POSTERS

Posters are on display from 4 p.m. on Tuesday, September 5th, till 4 p.m. on Wednesday, September 6th, on the 4th floor of the conference venue. Poster presenters must hang their material on Tuesday between 11 a.m. and 3 p.m. and remove it by Wednesday at 5 p.m. It is the presenter's responsibility to hang and remove their poster in a timely manner. Posters which are still hanging after 5 p.m. on Wednesday will be discarded. **The selected posters as flash talks will be notified by Thursday evening.** They will have 5 minutes each to present in a plenary session on Saturday, September 9th, between 10.45 and 11.45 a.m.

For a poster to be eligible for Flash talk, the presenter should upload their poster (in the PDF format) to indico **on or before Friday, September 1st**. **To upload your poster, please log into the QM 2023 indico site** (using the email address you registered with) and click on **My Contributions**. The maximum size for a poster is 3x4 feet (91x121 cm, 46x36 inches). All posters should be in "Portrait" format. Posters will be grouped by scientific topic. The poster stands are labeled and identified with a board number, which coincides with the Indico ID of the poster contribution. The list of posters and board numbers can be found on the INDICO site and on page 38 of this booklet. Within a given topic, posters are ordered by Indico ID number, from low to high. A map of the poster session can be found on page 53 of this booklet.

KEYNOTE SPEAKER



David J. Gross is the Chancellor's Chair professor of theoretical physics and the former director of the Kavli Institute for Theoretical Physics at the University of California, Santa Barbara. He received his Ph.D. in 1966 from the University of California, Berkeley. Before joining the Kavli Institute, he was the Thomas Jones professor of mathematical physics at Princeton University. Gross was awarded the 2004 Nobel Prize in Physics, along with H. David Politzer and Frank Wilczek, "for the discovery of asymptotic freedom in the theory of the strong interaction." His other awards include the Sakurai Prize, a MacArthur fellowship, the Dirac Medal, the Oskar Klein Medal, the Harvey Prize, the High Energy and Particle Physics Prize of the European Physical Society, and the Grande Médaille d'Or of the French Academy of Sciences. He holds honorary degrees from institutions in the US, Britain, France, Israel, Argentina, Brazil, Belgium, China, the Philippines and Cambodia. He is a member of the National Academy of Sciences, the American Academy of Arts and Sciences, the American Philosophical Society, the Indian Academy of Sciences and the Chinese Academy of Sciences. In 2020, he became Past President of the American Physical Society.

BANQUET DINNER SPEAKER

Marc Abrahams has a degree in applied mathematics from Harvard College, spent several years developing optical character recognition computer systems (including a reading machine for the blind) at Kurzweil Computer Products, and later founded Wisdom Simulators, which used computers to give people experience making tough/impossible decisions. Marc founded the **Ig Nobel Prize Ceremony** in 1991, and serves as master of ceremonies. The prizes — for achievements that make people LAUGH, then THINK — are handed out by genuine, bemused Nobel laureates in a gala event held every year at Harvard University (but online only, during pandemic years), and broadcast on the web and on public radio. (The 1995 ceremony was one of the very first events ever webcast.) In 2022 the Ig Nobel Prize was itself given a prize: the Heinz Oberhummer award, for "outstanding science communication". He co-founded and edits the magazine *Annals of Improbable Research* (AIR), and wrote *This is Improbable, The Ig Nobel Prizes,* and other books.

PROGRAM

All given times are CDT (Central Daylight Time)

SCHEDULE AT A GLANCE

Sunday 09/03	Monday 09/04	Tuesday 09/05	Wednesday 09/06	Thursday 09/07	Friday 09/08	Saturday 09/09
Student Registration 08:00-09:00	Registration 08:00-08:45	Parallel Sessions 08:30-10:30	Parallel Sessions 08:30-10:30	Plenary Session 08:30-10:30	Plenary Session 08:30-10:30	Plenary Session 08:30-10:15
Student Lectures 09:00-10:30	Welcome 08:45-09:15					Coffee Break 10:15-10:45
	Keynote Talk 09:15-10:00					Flash Talks 10:45-11:45
	Coffee Break 10:00-10:30					Awards 11:45-12:15
Coffee Break 10:30-11:00	Plenary Session 10:30-12:35	Coffee Break 10:30-11:00	Coffee Break 10:30-11:00	Coffee Break 10:30-11:00	Coffee Break 10:30-11:00	QM2025 and Closing 12:15-12:55
Student Lectures 11:00-12:30		Parallel Sessions 11:00-13:20	Parallel Sessions 11:00-13:00	Plenary Session 11:00-12:30	Plenary Session 11:00-12:30	
Lunch 12:30-14:00	Lunch 12:35-14:00			Boxed Lunch 12:30-13:00	Lunch 12:30-14:00	
		Lunch 13:20-14:50	Lunch 13:00-14:20	Free Afternoon		
Student Lectures 14:00-16:15	Plenary Session 14:00-15:30		Parallel Sessions 14:20-16:00		Plenary Session 14:00-16:00	
	Coffee Break 15:30-16:00	Parallel Sessions 14:50-17:10				
Coffee Break 16:15-16:45	Plenary Session 16:00-18:00		Coffee Break 16:00-16:30		Coffee Break 16:00-16:30	
Panel Discussion 16:45-18:00		Coffee Break 17:10-17:30	Parallel Sessions 16:30-18:10		Plenary Session 16:30-18:00	
		Poster Session 17:30-19:40				
An Evening at the Rustic With Music and Food 19:00-22:00	Reception at The Houston Museum of Natural Sciences 19:30-22:00		Houston Ballet Performance 19:30-22:00		Banquet Dinner 20:00-22:30	

PARALLEL SESSION OVERVIEW

	Ballroom A	Ballroom B	Ballroom C	Ballroom D	Ballroom F
Tuesday 08:30-10:30	Chirality (1)	Collective Dynamics (1)	Critical Point (1)	Heavy Flavor (1)	Jets (1)
Tuesday 11:00-13:20	New Theory (1)	Collective Dynamics (2)	Light Flavor (1)	Heavy Flavor (2)	Jets (2)
Tuesday 14:50-17:10	New Theory (2)	Initial State (1)	Small Systems (1)	EM Probes (1)	QCD at finite T and density (1)
Wednesday 08:30-10:30	Ultra-peripheral Collisions	Collective Dynamics (3)	Light Flavor (2)	Heavy Flavor (3)	Jets (3)
Wednesday 11:00-13:00	Astrophysics	Spin/EIC Physics	Small Systems (2)	Future Experiments	Jets (4)
Wednesday 14:20-16:00	Chirality (2)	Initial State (2)	Critical Point (2)	EM Probes (2)	QCD at finite T and density (2)
Wednesday 16:30-18:10	New Theory (3)	Initial State (3)	Small Systems (3)	Heavy Flavor (4)	QCD at finite T and density (3)

STUDENT DAY – SUNDAY SEPTEMBER 3RD

08:00-09:00 Student registration

Student day 09:00-12:30 Ballroom of the Americas – Convener: Saskia Mioduszewski		
09:00-09:45	Detectors in Heavy Ion Physics	Thomas Hemmick
09:45-10:30	Jet Physics	Raghav Kunnawalkam Elayavalli
10:30-11:00	Coffee Break	
11:00-11:30	Bulk Physics – Flow and Correlations	Hanna Zbroszczyk
11:30-12:00	Bulk Physics – Critical point searches	Lijuan Ruan
12:00-12:30	Bulk Physics – Finite density QCD	Thomas Schaefer

12:30-14:00 Lunch (Lanier Grand Ballroom, level 4)

Student day 14:00-16:15 Ballroom of the Americas – Convener: Manuel Calderon de la Barca		
14:00-14:45	Heavy Flavor Physics	Enrico Scomparin
14:45-15:30	Ultra-peripheral collisions and Electromagnetic probes	Daniel Tapia Takaki
15:30-16:15	The Physics of the EIC	Elke-Caroline Aschenauer

16.15-16.45 Coffee Break

Student day 16:45-18:00 Ballroom of the Americas – Convener: Daniel Tapia Takaki		
16:45-18:00	Panel Discussion on Mentoring and Career Opportunities	

19:00-22:00 An evening at the Rustic (with Music and Food)

MONDAY SEPTEMBER 4TH

08:00-08:45 Registration

Plenary Session 08:45-10:00 Ballroom of the Americas – Convener: Rene Bellwied		
08:45-09:15	Welcome and Introduction	
09:15-10:00	Keynote talk	David Gross

10:00-10:30 Coffee Break

Plenary Session 10:30-12:35 Ballroom of the Americas – Convener: Barbara Jacak		
10:30-11:00	ALICE Overview	Ionut Cristian Arsene
11:00-11:25	ATLAS Overview	Aaron Angerami
11:25-11:50	CMS Overview	Austin Alan Baty
11:50-12:15	LHCb Overview	John Matthew Durham
12:15-12:35	HADES Overview	Simon Spies

12:35-14:00 Lunch (Lanier Grand Ballroom, level 4)

Plenary Session 14:00-15:30 Ballroom of the Americas – Convener: Johanna Stachel		
14:00-14:30	STAR Overview	Rosi Reed
14:30-14:50	PHENIX Overview	Christine Nattrass
14:50-15:10	sPHENIX Overview	Edward O'Brien
15:10-15:30	NA61/SHINE Overview	Piotr Podlaski

15:30-16:00 Coffee Break

Plenary Session 16:00-18:00 Ballroom of the Americas – Convener: Veronica Dexheimer		
16:00-16:30	Lattice QCD Overview	Attila Pasztor
16:30-17:00	Quark Matter and Nuclear Astrophysics	Tyler Gorda
17:00-17:30	New tools for data analysis and simulations	James Mulligan
17:30-18:00	Diversity, equity and inclusion in nuclear physics	Geraldine Cochran

19:30-22:00 Reception at the Houston Museum of Natural Sciences

TUESDAY SEPTEMBER 5TH

Chirality: (1) - Ballroom A (8:30 AM - 10:30 AM)

-Conveners: Dirk Rischke

time	title	presenter
8:30 AM	Hyperon Polarization in Heavy Ion Collisions from STAR	GOU, Xingrui
8:50 AM	Search for anomalous chiral effects in heavy-ion collisions with ALICE	WANG, Chunzheng
9:10 AM	QGP vortex rings as a new probe for jet-induced medium response and longitudinal dynamics	MATIOLI SERENONE, Willian
9:30 AM	New Insights into Global Spin Alignment in Heavy-Ion Collisions: Measurements of ϕ, ω, ρ^0, and J/ψ at STAR	XI, Baoshan
9:50 AM	A new stable and causal theory of viscous chiral hydrodynamics	ABBOUD, Nick
10:10 AM	Search for the Chiral Magnetic and Vortical Effects Using Event Shape Variables in Au+Au Collisions at STAR	XU, ZHIWAN

Collective Dynamics: (1) - Ballrom B (8:30 AM - 10:30 AM)

-Conveners: Jun Takahashi

time	title	presenter
8:30 AM	Anisotropic flow of identifed particles in Au + Au collisions at $\sqrt{s_{NN}}$ = 3.0 - 19.6 GeV	LIU, Zuowen
8:50 AM	Rapidity-dependent dynamics of the initial state via 3D multi-system Bayesian calibration	MANKOLLI, Andi
9:10 AM	Probing initial baryon stopping and equation of state with rapidity-dependent directed flow of identified particles	DU, Lipei
9:30 AM	Elliptic anisotropy measurement of the $f_0(980)$ in pPb collisions and determination of its quark content by CMS	GU, An
9:50 AM	Quenching minijets in a concurrent jet+hydro evolution and its consequences for extracting transport coefficients of QGP	SINGH, Mayank
10:10 AM	Can we observe using the collective flow effects of the early nonequilirium dynamics	BOZEK, Piotr

Critical Point: (1) - Ballroom C (8:30 AM - 10:30 AM)

-Conveners: Nu Xu

time	title	presenter
8:30 AM	Probing the nature of the QCD phase transition with higher-order net-proton number fluctuation and local parton density fluctuation measurements at RHIC-STAR	NEFF, Dylan

8:50 AM	Critical Expectations: Non-Gaussian Cumulants of Particle Multiplicities Near the Critical Point	PRADEEP, Maneesha Sushama
9:10 AM	Femtoscopy analysis in small systems at NA61/SHINE	PORFY, Barnabas
9:30 AM	Baryon number fluctuations at high baryon density	FU, Wei-jie
9:50 AM	Location of the QCD critical point predicted by holographic Bayesian analysis	HIPPERT TEIXEIRA, Mauricio
10:10 AM	Spinodal enhancement of fluctuations in nucleus-nucleus collisions	POBEREZHNYUK, Roman

Heavy Flavor: (1) - Ballroom D (8:30 AM - 10:30 AM)

-Conveners: Pol Gossiaux

time	title	presenter
8:30 AM	Recent charmonium measurements in Pb-Pb collisions with ALICE	BAI, Xiaozhi
8:50 AM	Studies of heavy quark dynamics using B mesons with the CMS experiment	SHENG, Tzu-An
9:10 AM	Probe parton propagation in heavy-ion collisions with ALICE heavy-flavour measurements	SINGH, Ravindra
9:30 AM	Measurements of charm quark production and hadronization at CMS	CHANDRA, Soumik
9:50 AM	Heavy quark momentum diffusion coefficient during hydrodynamization via effective kinetic theory	PEURON, Jarkko
10:10 AM	Bottom hadro-chemistry in pp and PbPb collisions at the LHC	HE, Min

Jets: (1) - Ballroom F (8:30 AM - 10:30 AM)

-Conveners: Mateusz Ploskon

time	title	presenter
8:30 AM	Identifying jet observables which can see the short-length structure of QGP	RAJAGOPAL, Krishna
8:50 AM	Scanning the initial jet production points with dijet tomography in heavy-ion collisions	HE, Yayun
9:10 AM	Looking for the dead-cone in heavy-ion collisions with energy correlators	DOMINGUEZ, Fabio
9:30 AM	ATLAS measurements of b-jet suppression and heavy-flavor azimuthal correlations in 5.02 TeV Pb+Pb collisions	SICKLES, Anne Marie
9:50 AM	Revealing the medium-recoil effect with high pT Z-boson tagged underlying event distribution in PbPb collisions at CMS	CHOU, Pin-Chun
10:10 AM	Measurements of the jet axis decorrelation and the groomed jet radius with photon-jet events in PbPb and pp collisions at the CMS experiment	TAYLOR, Molly

10:30-11:00: Coffee Break

New Theory: (1) - Ballroom A (11:00 AM - 1:20 PM)

-Conveners: Krishna Rajagopal

time	title	presenter
11:00 AM	Testing Eigenstate Thermalization Hypothesis for Non-Abelian Gauge Theories	YAO, Xiaojun
11:20 AM	Far-from-equilibrium slow modes and momentum anisotropy in expanding plasma	BREWER, Jasmine Therese
11:40 AM	Non-Hydrodynamic Modes from Linear Response in Kinetic Theory	OCHSENFELD, Stephan
12:00 PM	Exploring the freeze-out hypersurface with a rapidity-dependent thermal model	GAO, Han
12:20 PM	A solvable quantum field theory with asymptotic freedom in 3+1 dimensions	ROMATSCHKE, Paul
12:40 PM	Evolution of non-gaussian fluctuations	AN, Xin
1:00 PM	Excited Hadron Channels in Hadronization	FRIES, Rainer

Collective Dynamics: (2) - Ballroom B (11:00 AM - 1:20 PM)

-Conveners: James Lawrence Nagle

time	title	presenter
11:00 AM	Establishing the Range of Applicability of Hydrodynamics in High-Energy Collisions	WERTHMANN, Clemens
11:20 AM	Elliptic and triangular flow of light (anti-)nuclei in Au+Au collisions in the BES-II energies using the STAR detector	SHARMA, Rishabh
11:40 AM	Measuring flow harmonics up to order 10 and net-charge fluctuations in PbPb collisions with the CMS experiment	TUO, Shengquan
12:00 PM	What carries baryon number? Simulations of baryon and electric charge stopping in isobar collisions.	PIHAN, Gregoire
12:20 PM	Thermalization of QGP through transverse momentum fluctuation in ultra-central Pb+Pb collision	SAMANTA, Rupam
12:40 PM	Longitudinal Decorrelation Measurements from pp to A+A with the ATLAS detector	SEIDLITZ, Blair Daniel
1:00 PM	Chasing the onset of QCD thermalisation with ALICE	CIACCO, Mario

Light Flavor: (1) - Ballroom C (11:00 AM - 1:20 PM)

-Conveners: Peter Braun-Munzinger

time	title	presenter
11:00 AM	Strangeness production in Au+Au collisions at 7.7, 14.6, 19.6, and 200 GeV with the STAR experiment	FANG, Yi
11:20 AM	Particle production and collective flow measurements with CMS Run 3 PbPb data	WANG, Jing

11:40 AM	Exploring the internal structure of exotic resonances with ALICE	PADHAN, Sonali
12:00 PM	Anomalous kaon correlations measured in Pb-Pb collisions at the LHC as evidence for the melting and refreezing of the QCD vacuum	KAPUSTA, Joseph
12:20 PM	Exploring the hadron gas phase of relativistic heavy-ion collisions with ALICE	AGRAWAL, Neelima
12:40 PM	Shedding light on the light flavour particle and strangeness production in small systems at the LHC with ALICE	ERCOLESSI, Francesca
1:00 PM	Bulk flow and correlation measurements at LHCb	WONG, Cheuk Ping

Heavy Flavor: (2) - Ballroom D (11:00 AM - 1:20 PM)

-Conveners: Federico Antinori

time	title	presenter
11:00 AM	Heavy Flavor and Quarkonia in PHENIX	SMITH, Krista Lizbeth
11:20 AM	Measurements of Charm Quark Interaction with the QGP in Heavy-Ion Collisions at STAR	SU, Yuan
11:40 AM	Beam energy and system size dependence of heavy flavor production at STAR	WANG, Yan
12:00 PM	Quarkonia as probes of initial and final states in small systems with ALICE	CHOUDHURY, Subikash
12:20 PM	Modification of heavy quark hadronization in high multiplicity collisions at LHCb	GU, Chenxi
12:40 PM	New LHCb results on quarkonia production (and exotic hadron) in pp and pPb collisions	DA SILVA, Cesar Luiz
1:00 PM	Heavy Flavor machine learning algorithms for Fast Data Processing in sPHENIX	DEAN, Cameron

Jets: (2) - Ballroom F (11:00 AM - 1:20 PM)

-Conveners: Xin-Nian Wang

time	title	presenter
11:00 AM	Parton cascades at DLA: the role of the evolution variable	CORDEIRO, André
11:20 AM	Exploring medium properties using jet substructure measurements in pp and Pb-Pb collisions with ALICE	BOSSI, Hannah
11:40 AM	New measurements of inclusive jet RAA with mixing technique and jet v2 properties with ALICE	GRÜNWALD, Nadine
12:00 PM	Readiness of the sPHENIX experiment for jet physics	RINN, Timothy Thomas
12:20 PM	Photon-triggered jets as probes of multi-stage jet modification	SIRIMANNA, Chathuranga
12:40 PM	Quantum to classical parton evolution in the QGP	LOURENCO HENRIQUES BARATA, Joao
1:00 PM	Neutral pion and photon yields in d+Au collisions in PHENIX	FIRAK, Daniel

13:20 – 14:50 Lunch (Lanier Grand Ballroom, level 4)

New Theory: (2) - Ballroom A (2:50 PM - 5:10 PM)

-Conveners: Ulrich Heinz

time	title	presenter
2:50 PM	A new approach to stochastic relativistic fluid dynamics from information flow	MULLINS, Nicki
3:10 PM	Azimuthal anisotropies at high pT from transverse momentum dependent (TMD) parton distribution and fragmentation functions	SOUDI, ismail
3:30 PM	Transverse-momentum-dependent (TMD) factorization in reactions with nuclei: from Drell-Yan to hadron production	KE, Weiyao
3:50 PM	Applicability of higher-order hydrodynamics in heavy-ion collisions	JAISWAL, Sunil
4:10 PM	Sound of rigidly moving fluids: on linear waves in inhomogeneous equilibrium configurations	SHOKRI, Masoud
4:30 PM	Mapping the critical equation of state by resummations	BASAR, Gokce
4:50 PM	Far-from-equilibrium attractors for massive kinetic theory in the relaxation time approximation	ALALAWI, Huda

Initial State: (1) - Ballroom B (2:50 PM - 5:10 PM)

-Conveners: Raju Venugopalan

time	title	presenter
2:50 PM	Investigating the early magnetic field of QGP via heavy-flavour polarisation studies with ALICE	MICHELETTI, Luca
3:10 PM	Limiting attractors in heavy-ion collisions --- the interplay between bottom-up and hydrodynamical attractors	LINDENBAUER, Florian
3:30 PM	First study of the initial gluonic fluctuations using UPC with ALICE	MATYJA, Adam
3:50 PM	Physics opportunities from nuclear structure studies with high-energy nuclear collisions	JIA, Jiangyong
4:10 PM	Adiabatic Hydrodynamization: a Natural Framework to Find and Describe Prehydrodynamic Attractors	STEINHORST, Rachel
4:30 PM	Constraining the low x structure of nuclei with LHCb	BOETTCHER, Thomas
4:50 PM	Using new methods for systematic study of nuclear structure in high-energy collisions to probe the effect of short-range correlations	WILLIAM LUZUM, Matthew

Small Systems: (1) - Ballroom C (2:50 PM - 5:10 PM)

-Conveners: William Zajc

time	title	presenter
2:50 PM	Small-system properties as measured with jets and high-pT azimuthal anisotropy by the CMS experiment	DE SOUZA LEMOS, Dener
3:10 PM	Pinning down the origin of collectivity in small systems with ALICE	ZHAO, Mingrui

3:30 PM	Recent results from fixed-target collisions at LHCb	MATTIOLI, Kara
3:50 PM	Measuring jet quenching with a Bayesian Inference analysis of hadron and jet data by JETSCAPE	EHLERS, Raymond
4:10 PM	Correlation between Υ(nS) meson and underlying event in pp collision	CITRON, Zvi
4:30 PM	Flowing to the future: Simulating the tiniest fluids in 3+1 dimensions	SCHENKE, Bjoern
4:50 PM	Measurements of azimuthal anisotropies in 16O+16O and gamma+Au collisions from STAR	HUANG, Shengli

EM Probes: (1) - Ballroom D (2:50 PM - 5:10 PM)

-Conveners: Anne Marie Sickles

time	title	presenter
2:50 PM	Coherent J/psi photoproduction and polarization in Pb-Pb collisions with nuclear overlap	SHATAT, Afnan
3:10 PM	Thermal dilepton production in heavy-ion collisions at Beam Energy Scan (BES) energies	GALE, Charles
3:30 PM	Low pT direct photons in AuAu collisions in PHENIX	DOOMRA, Vassu
3:50 PM	Direct photon pT spectra and correlations measured with ALICE	ARATA, Carolina
4:10 PM	Electromagnetic radiation in pp and Pb--Pb collisions with dielectrons in ALICE	SEKIHATA, Daiki
4:30 PM	Thermal dielectron measurements in Au+Au collisions at 7.7, 14.6, and 19.6 GeV with the STAR experiment	HAN, Yiding
4:50 PM	Measurement of dilepton and diphoton production from photon fusion processes in UPC in Pb+Pb collisions with the ATLAS detector	STEINBERG, Peter Alan

QCD at finite T and density: (1) - Ballroom F (2:50 PM - 5:10 PM)

-Conveners: Berndt Mueller

time	title	presenter
2:50 PM	High order fluctuations of conserved charges in the continuum limit	BORSANYI, Szabolcs Istvan
3:10 PM	QCD based equation of state at finite density with a critical point from an alternative expansion scheme	KAHANGIRWE, Micheal
3:30 PM	Bayesian Inference of QGP Properties and 3D Dynamics in Heavy-Ion Collisions in the RHIC Beam Energy Scan Program	SHEN, Chun
3:50 PM	Particle production in Au+Au collisions at Beam Energy Scan II energies at RHIC	HARASTY, Matthew
4:10 PM	Equation of state of a hot-and-dense quark gluon plasma: lattice simulations at real mu_B vs. extrapolations	WONG, Chik Him
4:30 PM	QCD equation of state with improved precision from lattice simulations	PAROTTO, Paolo
4:50 PM	Heavy quark diffusion from 2+1 flavor lattice QCD	SHU, Hai-Tao

17:10 – 17:30 Coffee Break

17:30 – 19:40 Poster Session

WEDNESDAY SEPTEMBER 6TH

UPC: (1) - Ballroom A (8:30 AM - 10:30 AM)

-Conveners: Daniel Tapia Takaki

time	title	presenter
8:30 AM	Probing small-x nuclear gluonic structure via coherent charmonium photoproduction in ultraperipheral PbPb collisions at CMS	LIN, Jiazhao
8:50 AM	Exclusive J/psi Photoproduction and Entanglement-Enabled Spin Interference in Ultra-Peripheral Collisions at STAR	SHEIKH, Ashik Ikbal
9:10 AM	First global study of super dense gluonic matter with UPCs by ALICE	RAGONI, Simone
9:30 AM	Looking for QGP signatures in ultraperipheral PbPb collisions	DAS, Sruthy Jyothi
9:50 AM	Quarkonia production in ultra-peripheral PbPb collisions at LHCb	WANG, Xiaolin
10:10 AM	Illuminating the impact-parameter dependence of UPC dijet photoproduction	PAAKKINEN, Petja

Collective Dynamics: (3) - Ballroom B (8:30 AM - 10:30 AM)

-Conveners: Marco Van Leeuwen

time	title	presenter
8:30 AM	First-Order Event Plane Correlated Directed and Triangular Flow in BES-II Au+Au Collisions at STAR	LIU, Xiaoyu
8:50 AM	Bayesian calibration of viscous anisotropic hydrodynamic simulations of heavy-ion collisions*	HEINZ, Ulrich
9:10 AM	Light- and Hyper-Nuclei Collectivity in Au+Au Collisions at RHIC-STAR	HAN, Chengdong
9:30 AM	Simulating collectivity in dense baryon matter with multiple fluids	TOMASIK, Boris
9:50 AM	Local and global polarization of Λ hyperons across RHIC-BES energies: The roles of spin hall effect, initial condition, and baryon diffusion	WU, Xiang-Yu
10:10 AM	Constraining the medium properties with the anisotropic flow and its correlations in Pb--Pb collisions at the highest energy with ALICE	MORDASINI, Cindy

Light Flavor: (2) - Ballroom C (8:30 AM - 10:30 AM)

-Conveners: Anju Bhasin

time	title	presenter
8:30 AM	Accessing strong interaction in three-hadron systems with ALICE	SINGH, Bhawani
8:50 AM	Measurements of (anti)(hyper) nuclei with ALICE	VOROBYEV, Ivan
9:10 AM	High-pT suppression in small systems	FARADAY, Cole

9:30 AM	Cluster formation near midrapidity - can the mechanism be identified experimentally?	BRATKOVSKAYA, Elena
9:50 AM	Large isospin symmetry violation in kaon production	BRYLINSKI, Wojciech
10:10 AM	Sigma^0 reconstruction in Ag+Ag collisions at 1.58 AGeV with the HADES experiment	BECKER, Marten

Heavy Flavor: (3) - Ballroom D (8:30 AM - 10:30 AM)

-Conveners: Vincenzo Greco

time	title	presenter
8:30 AM	Probing parton formation times with gluon to c-cbar splitting	VAN DER SCHEE, Wilke
8:50 AM	First energy-energy correlators measurements for inclusive and heavy-flavour tagged jets	FAN, Wenqing
9:10 AM	Microscopic Model for Quarkonia Production in Heavy-Ion collisions	AICHELIN, Joerg
9:30 AM	Event-by-event heavy-flavour dynamics: estimating the spatial diffusion coefficient D_s from charm to the infinite mass limit	MINISSALE, Vincenzo
9:50 AM	Heavy-flavor transport and hadronization in proton-proton collisions	BERAUDO, Andrea
10:10 AM	A fluid-dynamic approach to heavy-quark diffusion in the quark-gluon plasma	CAPELLINO, Federica

Jets: (3) - Ballroom F (8:30 AM - 10:30 AM)

-Conveners: John William Harris

time	title	presenter
8:30 AM	Measurements of the substructure and radius dependence of jet quenching in PbPb collisions	HANGAL, Dhanush Anil
8:50 AM	Studies of jet quenching and medium response using photon+jet events with ATLAS	MCGINN, Christopher
9:10 AM	In medium modification of jets in PHENIX	CONNORS, Megan
9:30 AM	Enhancement of baryon-to-meson ratios around jets as a signature of medium response	QIN, Guang-You
9:50 AM	Study of jet energy redistribution and broadening using acoplanarity and planar flow measurements in pp and Pb-Pb collisions with ALICE	NORMAN, Jaime
10:10 AM	Probing the dynamics of color coherence with energy correlators	ANDRES, Carlota

10:30 – 11:00 Coffee Break

Astrophysics: (1) - Ballroom A (11:00 AM - 1:00 PM)

-Conveners: Jorge Noronha

time	title	presenter
11:00 AM	Bayesian analysis of nontrivial features in the speed of sound inside neutron stars in light of astrophysical and pQCD constraints	PIAS MROCZEK, Debora

11:20 AM	Far-from-equilibrium relativistic hydrodynamics in neutron-star mergers	YANG, Yumu
11:40 AM	Reaching percolation and conformal limits in neutron stars	SASAKI, Chihiro
12:00 PM	Equations of state for neutron stars with phase transitions of different orders	CLEVINGER, Alexander
12:20 PM	Causal and Stable Magnetohydrodynamics	KUSHWAH, Khwahish
12:40 PM	Constraining (anti)nuclei measurements relevant for astrophysics	PINTO, Chiara

Spin/EIC Physics: (1) - Ballroom B (11:00 AM - 1:00 PM)

-Conveners: Kenneth Barish

time	title	presenter
11:00 AM	Exploring the Longitudinal and Transverse Spin Structure of the Nucleon at STAR	LIN, Ting
11:20 AM	Harmonics of Parton Saturation in Lepton-Jet Correlations at the EIC	ZHANG, Yuan-Yuan
11:40 AM	Probing gluon saturation through two-particle correlations at STAR and the EIC	CHU, Xiaoxuan
12:00 PM	Calculation of the Polarized Bethe-Heitler Cross Section for the Electron Ion Collider	GANGADHARAN, Dhevan Raja
12:20 PM	Exploration of hadronization through heavy flavor production at the future Electron-Ion Collider	LI, Xuan
12:40 PM	STAR Forward Detector Upgrade Status and Performance	WANG, zhen

Small Systems: (2) - Ballroom C (11:00 AM - 1:00 PM)

-Conveners: Victoria Greene

time	title	presenter
11:00 AM	Particle production and entropy measurements in ALICE	HUTSON, A
11:20 AM	Measurement of charged and full jet production and nuclear modification factor in p-Pb collisions with ALICE	SCHMIER, Austin
11:40 AM	Hot spots in a proton	LAPPI, Tuomas
12:00 PM	Search for long-range QCD collective phenomena inside high-multiplicity jets in pp collisions with the CMS experiment	GARDNER, Parker
12:20 PM	Initial-state and final-state effects on hadron production in small collision systems	VITEV, Ivan
12:40 PM	AMY Lorentz invariant parton cascade	ZAPP, Korinna

Future Experiments: (1) - Ballroom D (11:00 AM - 1:00 PM)

-Conveners: Norbert Herrmann

time	title	presenter
11:00 AM	New opportunities for understanding high-density QCD matter with CMS Phase II detector at the High-Luminosity LHC era	YE, Zhenyu

11:20 AM	Novel silicon detectors in ALICE at the LHC: the ITS3 and ALICE 3 upgrades	SANNA, Isabella
11:40 AM	Forward Calorimeter (FoCal): Physics program and performanc	JONAS, Florian
12:00 PM	Status of the CBM Experiment at FAIR	HOEHNE, Claudia
12:20 PM	Commissioning and first collisions with the LHCb SMOG2 system	MARIANI, Saverio
12:40 PM	Overview of the NA60+ experiment at CERN-SPS	ALOCCO, Giacomo

Jets: (4) - Ballroom F (11:00 AM - 1:00 PM)

-Conveners: Olga Evdokimov

time	title	presenter
11:00 AM	Thermalization of mini-jets in QCD kinetic theory	MAZELIAUSKAS, Aleksas
11:20 AM	Resolving medium properties using high-pT jets with jet and in-jet correlations in PbPb collisions at 5.02 TeV with the CMS detector	VIINIKAINEN, Jussi
11:40 AM	Unveiling the Interplay of Multi-Partonic Structures and Strongly-Interacting Media via R-dependent Jet Modifications in Heavy-Ion Collisions	MEHTAR-TANI, Yacine
12:00 PM	Measurements of jet momentum profile and generalized angularities in Au+Au collisions at 200 GeV at STAR	PANI, Tanmay
12:20 PM	Jet-flow coupling in heavy-ion collisions	LUO, Tan
12:40 PM	Exploring perturbative QCD splittings in heavy-ion collisions	TAKACS, Adam

13:00 – 14:20 Lunch (Lanier Grand Ballroom, level 4)

Chirality: (2) - Ballroom A (2:20 PM - 4:00 PM)

-Conveners: huan huang

time	title	presenter
2:20 PM	Exact Polarization of Particles of Any Spin at Global Equilibrium	PALERMO, Andrea
2:40 PM	Sphaleron damping and effects on normal and anomalous charge transport in high-temperature QCD plasmas	DE BRUIN, Lillian
3:00 PM	Flow and hyperon polarization at RHIC BES from multi-fluid dynamics	KARPENKO, Iurii
3:20 PM	Impact of globally spin-aligned vector mesons on the search for the chiral magnetic effect in heavy-ion collisions	SHEN, Diyu
3:40 PM	Post-blind Analysis of Isobar Collisions and Background-controlled Upper Limit on the Chiral Magnetic Effect from STAR	FENG, Yicheng

Initial State: (2) - Ballroom B (2:20 PM - 4:00 PM)

-Conveners: Sangyong Jeon

time	title	presenter

2:20 PM	Determination of the neutron skin of Pb-208 from ultrarelativistic nuclear collisions	NIJS, Govert
2:40 PM	Search for evidence of the baryon junction in photonuclear processes and heavy-ion collisions at STAR	TSANG, Chun-Yuen
3:00 PM	Measurement of dijet production in UPC with the ATLAS detector	GILBERT, Benjamin Jacob
3:20 PM	Thermalization and quark production in spatially homogeneous system of gluons	BARRERA CABODEVILA, Sergio
3:40 PM	Multi-scale Imaging of Nuclear and Proton Geometries	ZHAO, Wenbin

Critical Point: (2) - Ballroom C (2:20 PM - 4:00 PM)

-Conveners: Daniel Cebra

time	title	presenter
2:20 PM	Universal cumulants from fluctuating width of rapidity distributions	BZDAK, Adam
2:40 PM	Fluctuations near the liquid-gas and chiral phase transitions in hadronic matter	MARCZENKO, Michał
3:00 PM	Effects of first-order chiral phase transition in relativistic heavy-ion collisions	SUN, KaiJia
3:20 PM	Exploring the Critical Points in QCD with Multi-Point Pade and Machine Learning Techniques in (2+1)-flavor QCD	GOSWAMI, Jishnu
3:40 PM	Extracting the speed of sound in the strongly-interacting matter created in relativistic nuclear collisions with the CMS experiment	BERNARDES, Cesar

EM Probes: (2) - Ballroom D (2:20 PM - 4:00 PM)

-Conveners: Raimond Snellings

time	title	presenter
2:20 PM	Fate of the rho to a_1 mixing in dilepton production	SAKAI, Azumi
2:40 PM	Pre-equilibrium Photon and Dilepton Production	PLASCHKE, Philip
3:00 PM	Electromagnetic probes for critical fluctuations of phase transitions in dense QCD	NISHIMURA, Toru
3:20 PM	Inverse slope of the photon pT spectrum and the QGP temperature profile	PAQUET, Jean-Francois
3:40 PM	Understanding the properties of the fireball with the polarization signature of thermal dileptons	SECK, Florian

QCD at finite T and density: (2) - Ballroom F (2:20 PM - 4:00 PM)

-Conveners: Szabolcs Istvan Borsanyi

time	title	presenter
2:20 PM	Finite volume effects near the chiral crossover	KARA, Ruben
2:40 PM	QCD material parameters at zero and non-zero chemical potential from the lattice	CLARKE, David

3:00 PM	Influence of baryon number, strangeness, and electric charge fluctuations on spectra and collective flow at the LHC	ALMAALOL, Dekrayat
3:20 PM	Interferometry in a Moat Regime	RENNECKE, Fabian
3:40 PM	Global angular momentum generation in heavy-ion reactions within a hadronic transport approach	SASS, Nils

16:00 – 16:30 Coffee Break

New Theory: (3) - Ballroom A (4:30 PM - 6:10 PM)

-Conveners: Peter Levai

time	title	presenter
4:30 PM	Studying exotic hadrons in high energy nuclear collisions	LIAO, Jinfeng
4:50 PM	Far-off-equilibrium early-stage dynamics in high-energy nuclear collisions	CHATTOPADHYAY, Chandrodoy
5:10 PM	Charge-dependent anisotropic flow in relativistic resistive magneto-hydrodynamic expansion	NONAKA, Chiho
5:30 PM	Isotropization of a longitudinally expanding plasma with the 2PI effective action	HAUKSSON, Sigtryggur
5:50 PM	The Black Hole CGC double copy: Computing gravitational radiation in close hyperbolic encounters of primordial Black Holes	VENUGOPALAN, Raju

Initial State: (3) - Ballroom B (4:30 PM - 6:10 PM)

-Conveners: Yen-Jie Lee

time	title	presenter
4:30 PM	Event-by-event pre-equilibrium dynamics with conserved charges	DORE, Travis
4:50 PM	Assessing the deformed nuclear structure at various energy scales	SINGH, Pragya
5:10 PM	Exploring electromagnetic field effects and constraining transport parameters of QGP using STAR BES-II data	DASH, ADITYA PRASAD
5:30 PM	Pursuing the Precision Study for Color Glass Condensate in Forward Hadron Productions	SHI, Yu
5:50 PM	Probing initial state effects in nuclear collisions via jet and top quark measurements with the ATLAS detector	POTEPA, Patrycja Anna

Small Systems: (3) - Ballroom C (4:30 PM - 6:10 PM)

-Conveners: Gunther Roland

time	title	presenter
4:30 PM	Multiplicity Dependence of Strange Hadron Production in Small Systems using the STAR detector	AGGARWAL, Ishu
4:50 PM	Latest ALICE results on charm and beauty hadronisation mechanisms in hadronic collisions	ZHU, Jianhui

5:10 PM	ATLAS measurement of mean momentum fluctuations and correlations with the flow in pp, Xe-Xe, and Pb-Pb	BOLD, Tomasz
5:30 PM	Insights on strange quark hadronization measuring (multi)strange hadron production in small systems with ALICE	PUCILLO, Sara
5:50 PM	Measurement of the sensitivity of two-particle correlations in pp collisions to the presence of hard scatterings	MOHAPATRA, Soumya

Heavy Flavor: (4) - Ballroom D (4:30 PM - 6:10 PM)

-Conveners: Elena Gonzalez Ferreiro

time	title	presenter
4:30 PM	Measurements of prompt and nonprompt D0 mesons production and collective flow with CMS at 5.02 TeV	STOJANOVIC, Milan
4:50 PM	Heavy-flavor jet substructure for probing the flavour dependences of QCD parton showers with ALICE	ZARDOSHTI, Nima
5:10 PM	Studies of the relative suppression of excited quarkonium states with CMS	KUKRAL, Ota
5:30 PM	T-matrix Analysis of Static Wilson Line Correlators from Lattice QCD at Finite Temperature	TANG, Zhanduo
5:50 PM	Quarkonium transport in weakly and strongly coupled plasmas	SCHEIHING HITSCHFELD, Bruno Sebastian

QCD at finite T and density: (3) - Ballroom F (4:30 PM - 6:10 PM)

-Conveners: Volker Koch

time	title	presenter
4:30 PM	Two-particle femtoscopy at the HADES experiment	GRUNWALD, Mateusz
4:50 PM	Measurements of p-Lambda and d-Lambda correlations in Au+Au collisions from the fixed-target program at the STAR experiment	HU, Yu
5:10 PM	Microscopic encoding of macroscopic universality: How do the universal behaviors near the QCD transition arise from quarks and gluons?	PETRECZKY, Peter
5:30 PM	Equilibrium and Dynamical Properties of Hot and Dense Quark-Gluon matter from Holographic Black Holes	GREFA, Joaquin
5:50 PM	Temperature and Strong Magnetic Field Effects in Dense Matter	DEXHEIMER, Veronica

19:30 – 22:00 Houston Ballet Performance

THURSDAY SEPTEMBER 7TH

Plenary Session 08:30-10:30 Ballroom of the Americas – Convener: Giulia Manca		
08:30-09:00	The Physics of small systems	Jiayin Sun
09:00-09:30	Collective dynamics - Experimental Overview	David Dobrigkeit Chinellato
09:30-10:00	Collective dynamics – Theoretical Overview	Yuuka Kanakubo
10:00-10:30	EPJ Featured Talk: Exotic Particles and Nuclei	Francesca Bellini

10:30 – 11:00 Coffee Break

Plenary Session 11:00-12:30 Ballroom of the Americas – Convener: Tetyana Galatyuk		
11:00-11:30	Search for the critical endpoint	Ashish Pandav
11:30-12:00	QCD at finite temperature and density - Criticality	Volodymyr Vovchenko
12:00-12:30	QCD at finite temperature and density – Equation of State	Jamie Karthein

12:30 – 13:00 Boxed Lunch

13:00 – 18:00 Excursion to NASA

FRIDAY SEPTEMBER 8TH

Plenary Session 08:30-10:30 Ballroom of the Americas – Convener: Lijuan Ruan		
08:30-09:00	Initial State Physics	Heikki Mäntysaari
09:00-09:30	Approach to equilibrium	Soeren Schlichting
09:30-10:00	New theoretical developments	Jürgen Berges
10:00-10:30	Electromagnetic probes	Raphaelle Bailhache

10:30 – 11:00 Coffee Break

Plenary Session 11:00-12:30 Ballroom of the Americas – Convener: Christina Markert		
11:00-11:30	Ultra-peripheral collisions	Daniel Brandenburg
11:30-12:00	Chirality, vorticity and spin polarization – Exp. Overview	Aihong Tang
12:00-12:30	Quantum Computing for Nuclear Physics	Martin Savage

12:30 – 14:00 Lunch (Lanier Grand Ballroom, level 4)

Plenary Session 14:00-16:00 Ballroom of the Americas – Convener: Christine Nattrass		
14:00-14:30	Jet modifications – Experimental overview	Laura Havener
14:30-15:00	Medium response to jets – Experimental overview	Yeonju Go
15:00-15:30	Jet modifications and medium response – Theo. overview	Daniel Pablos
15:30-16:00	Quantum Computing for Relativistic Particle Collisions	Phiala Shanahan

16:00 – 16:30 Coffee Break

Plenary Session 16:30-18:30 Ballroom of the Americas – Convener: Roberta Arnaldi		
16:30-17:00	Open Heavy Flavor – Experimental overview	Fabrizio Grosa
17:00-17:30	Quarkonium – Experimental overview	Andre Stahl Leiton
17:30-18:00	Open Heavy Flavor and Quarkonium – Theo. overview	Miguel Angel Escobedo

20:00 – 22:30 Banquet Dinner (Ballroom of the Americas)

SATURDAY SEPTEMBER 9TH

Plenary Session 08:30-10:15 Ballroom of the Americas – Convener: Hayian Gao		
08:30-09:00	The physics of the EIC	Anna Maria Stasto
09:00-09:30	Future facilities and instrumentation	Luciano Musa
09:30-10:15	Conference summary and outlook	Helen Caines

10:15 – 10:45 Coffee Break

Plenary Session 10:45-11:45 Ballroom of the Americas – Convener: Claudia Ratti	
10:46-10:51	Flash Talk 1
10:52-10:57	Flash Talk 2
10:58-11:03	Flash Talk 3
11:04-11:09	Flash Talk 4
11:10-11:15	Flash Talk 5
11:16-11:21	Flash Talk 6
11:22-11:27	Flash Talk 7
11:28-11:33	Flash Talk 8
11:34-11:39	Flash Talk 9
11:40-11:45	Flash Talk 10

Plenary Session 11:45-12:55 Ballroom of the Americas – Convener: Rene Bellwied		
11:45-12:00	Best Presentation Awards	
12:00-12:15	Zimanyi Medal Award	
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82	Spin alignment of vector mesons by glasma fields	Di-Lun Yang
111	Non-interdependent Collective Motions in Heavy-ion Collisions	Gang Wang
112	Energy loss and chiral magnetic effect	Jeremy Hansen
184	Finite volume effects on the chiral magnetic effect	Matteo Buzzegoli
255	Helical vortical effect and matter/anti-matter polarization asymmetry	Victor Ambrus
329	Hyperon Polarization in Isobar Collisions and Correlation of Global Polarization with Directed Flow from STAR	Kosuke Okubo
437	Search for the Chiral Magnetic Effect by Event Shape Engineering as a Function of Invariant Mass in Au+Au Collisions at \sqrt{s}= 200 GeV from STAR	Han-Sheng Li

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89	Alignment from spin-1 hydrodynamics	David Wagner
245	Correlations of conserved charges at finite density	Oleh Savchuk
246	Differential studies of multi-harmonic v_n correlations in heavy-ion	Ante Bilandzic
304	Correlation of flow coefficients measured in Au+Au collisions at 1.23 AGeV	Christoph Blume
305	Dynamics of causal hydrodynamic fluctuations in an expanding system	Shin-ei Fujii
311	Production of light flavor particles as a function of the Underlying Event activity in small and large collision systems with ALICE	Omar Vazquez Rueda
367	Understanding Ridge behavior via kinematics between jets and medium	Soyeon Cho
414	Directed and triangular flow of identified hadrons and light nuclei from fixed-target energies at RHIC-STAR	SHARANG RAV SHARMA
421	Mean $p_{\rm{T}}$ fluctuations in 3.0 GeV fixed-target collisions from the	Rutik Manikandhan
472	Probing the QGP to hadron-gas phase transition with mean transverse	Bushra Ali
482	Anisotropic flow measurements of strange and multi-strange hadrons in	Sonia Kabana
507	Collision event plane determination in sPHENIX at RHIC	Ejiro Naomi Umaka
520	The effects of hydrodynamic causality conditions on Bayesian analysis	Thiago Siqueira Domingues
547	Charged-particle multiplicity measurement in Au+Au collisions at	Hao-Ren Jheng
551	The elliptic flow of (multi-)strange hadrons in Au + Au collisions at	Guoping Wang
568	Anisotropic flow of (multi-)strange hadrons in Au+Au collisions at √sNN = 7.7-19.6 GeV from STAR	like liu

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571	Event-by-event local multiplicity fluctuations in charged particle production at	Ramni Gupta
578	Exploring the origin of pT fluctuations in ultra-central heavy ion collisions: Higher order pT correlations in ATLAS	Somadutta Bhatta
611	Measurements of azimuthal anisotropy of charged particles in Pb+Pb	Xiaoning Wang
648	Directed Flow of Λ, $^{3}_{\Lambda}{\rm H}$, and	Junyi Han
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661	Hydrodynamic initial conditions from non-linear causality	Tau Hoshino
672	Flow harmonic measurements up to order 10 in PbPb collisions with CMS	Andi Mankolli
673	The elliptic flow of ${\pi}^{\pm}$, ${K}^{\pm}$, p , and $\bar{p}$ in Au + Au collisions at $\sqrt{s_{NN}}$ = 7.7 and 9.2 GeV from STAR	Xing Wu
674	Probing the QGP to Hadron-Gas Phase Transition with Charge, Strange, and Baryon Balance Functions	Claude Andre Pruneau
705	The freezeout procedure with the method of moments	Caio Brito
708	Testing inputs to hydro codes with factorization breaking	Frederique Grassi
720	Effect of hydrodynamic fluctuations on mixed harmonic cumulants at the LHC	Koichi Murase
749	An efficient numerical solver for relativistic hydrodynamics with an implicit Runge-Kutta method	Masakiyo Kitazawa
758	Probing viscous effects with identified particles in pp, p—Pb and Pb—Pb collisions	Sumit Basu
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434	Elliptic flow splittings in the Polyakov–Nambu–Jona-Lasinio transport model	Wen-Hao Zhou
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671	Analysis of the critical fluctuations in the light-nuclei production	Shanjin Wu
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213	Measurement of ω meson production in pp and p--Pb collisions at $\sqrt{s_{\mathrm{NN}}}=5.02~$TeV with ALICE	Nicolas Strangmann
217	Dielectron Continuum in p+p Collisions	Roli Eshra
236	The direct photon puzzle and the weak magnetic photon emission	Jing-an Sun, Li Yan
629	On the gravitational wave emission in the magnetic field of a heavy-ion collision	Piotr Gasik
665	Topological separation of dielectron signals using machine learning in Pb--Pb collisions with ALICE	Jerome Jung
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235	Exploring the Feasibility of Imaging Atomic Nuclei at the Electron-Ion Collider with the ePIC Experiment	Roy Lacey
275	Simulation studies of the pair spectrometer luminosity detector for the ePIC experiment at the EIC	Aranya Giri
333	Multi-differential Studies of Strangeness Production with the CBM at FAIR using Machine Learning Techniques	Axel Puntke
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499	Neutral Pion and Eta Meson Reconstruction with the sPHENIX Detector	Anthony Hodges
500	In-Situ Calibration of the sPHENIX Hadronic Calorimeter using Isolated Single Hadrons	Emma McLaughlin
501	Calibrated Cosmic Muon simulations for the sPHENIX Hadronic Calorimeters	Shuhang Li
502	sPHENIX Hadronic Calorimeter Cosmic Muon Calibration	Hanpu Jiang
503	The Intermediate Silicon Tracker of sPHENIX	Cheng-Wei Shih
504	First Performance results of the sPHENIX Event Plane Detector	Jaebeom Park
505	Construction of the sPHENIX Event Plane Detector	Valerie Wolfe
508	The sPHENIX fixed latency reconstruction system	Christopher Pinkenburg
509	Baseline fluctuation studies for the sPHENIX TPC readout	Luke Legnosky
510	Characterization of Static Distortions in the sPHENIX TPC with a Steerable Laser System	Charles Hughes
511	Characterization of Time Dependent Distortions in the sPHENIX TPC using the Central Membrane	Benjamin Kimelman
512	Characterizing Time-Averaged Distortions in the sPHENIX TPC with the TPC Outer Tracker	Bade Sayki
513	Distortions in the sPHENIX TPC using Digital Current with Machine Learning	Dhanush Anil Hangal
514	Clustering hits of Time Projection Chamber by using machine learning and neural networks at sPHENIX	ZHONGLING JI
515	Track Seeding in the sPHENIX Experiment	Michael Joseph Peters
516	Track Reconstruction with the sPHENIX Experiment	Joe Osborn
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536	Alignment of the sPHENIX Tracking Detectors	Reese Boucher
548	sPHENIX MVTX Pixel Detector Internal Alignment with AI-ML Approach	Jaehyun Kim
662	Study for the high-density matter at J-PARC Heavy-Ion Project	Yuhei Morino
747	Hypernuclei studies in heavy-ion collisions with the CBM experiment at FAIR	Susanne Glaessel
800	The Silicon Vertex Tracker (SVT): a MAPS based tracker for the ePIC Detector at the Electron-Ion Collider	Nicole Apadula
803	Far Forward Calorimetery for the EIC	Yuji Goto
810	Particle Identification with the ePIC detector at the EIC	Oskar Hartbrich
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109	Heavy flavor phenomenology in Pb+Pb collision with IP-Glasma initial state and Bayesian calibrated hydrodynamics	Manu Kurian
124	Measurement of $\rm D^{0}$ Meson Tagged Jets in Au+Au Collisions at $\sqrt{s_{\rm NN}} = 200$ GeV at STAR	Diptanil Roy
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146	Azimuthal correlations of heavy-flavor decay electrons and charged particles with the ALICE detector	Amanda Nicole Flores
148	Measurement of the Υ production in heavy-ion collisions at $\sqrt{s_{\rm NN}}$ = 200 GeV with the STAR detector	Shuai Yang
154	Measurement of heavy-flavor electron production in Au+Au collisions at $\sqrt{s_{NN}}$ = 54.4 GeV at STAR	Veronika Prozorova
165	Measurement of $\Xi_{\rm c}^0$ production as a function of multiplicity via hadron decay in pp collisions at $\mathbf{\sqrt{\textit s}}$ = 13 TeV with	Tao Fang
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225	Measurement of J/ψ polarization in Ru+Ru and Zr+Zr collisions at $\sqrt{s_{NN}} = 200$ GeV at STAR	Dandan Shen
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506	First D^0-tagged jet axes difference measurement in pp collisions at $\sqrt{s}$ = 5.02$ TeV with ALICE	Emma Rose Yeats
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537	Heavy flavor hadrons inside jets at sPHENIX	Antonio Carlos Oliveira Da Silva
538	b-hadron v$_2$ and R$_{AA}$ with sPHENIX	Zhaozhong Shi
540	b-jet tagging at sPHENIX	Jakub Kvapil
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542	Quarkonia measurements in heavy ion collisions with the sPHENIX experiment	Alexandre Lebedev
552	Measurement of the multiplicity dependence of Υ meson production in p+p collisions at $\sqrt{s}$ = 510 GeV	Jakub Ceska
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563	Prospects for open heavy-flavour and quarkonium measurements with NA60+	Roberta Arnaldi
598	Model study on bottomonia modification in small collision systems	Sanghoon Lim
601	Determination of total charm production cross-section in pp collisions at 5.02 TeV with the HonexComb project	Jiayin Sun
652	Particle multiplicity dependent Charmonia production in $p+p$ collisions by the PHENIX experiment	JongHo Oh
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783	PHENIX Measurements of Azimuthal Anisotropy of Light and Heavy Flavor Hadrons in Au+Au Collisions at Forward Rapidity	Brandon Blankenship
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308	The McDIPPER: A novel saturation-based 3+1D initial state model for Heavy Ion Collisions	Oscar Garcia-Montero
326	Imaging the shape of atomic nuclei in high-energy nuclear collisions from STAR	Chunjian Zhang
342	Effect of Nuclear Shape Parameters On Initial State Observables In Heavy Ion Collisions	Aman Dimri
356	New constraints on 3D initial state and transport parameters of QGP using the Beam Energy Scan phase II data of STAR	Niseem Magdy Abdelrahman
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345	Measurements of π, K, and p in jets in Pb--Pb collisions at $\sqrt{s_{\rm{NN}}} = 5.02$ TeV with ALICE	Sierra Lisa Weyhmiller
351	Measurement of directed flow of inclusive jets in heavy-ion collisions at RHIC	Subhash Singha
371	Exploring the equilibration time of the QGP with jet quenching	Souvik Priyam Adhya
416	Suppression and flavor correlation modification of leading di-hadron at RHIC and the LHC	Yang-Ting Chien
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521	Energy-energy correlator measurements in pp and pPb collisions at 5.02 TeV with ALICE	Anjali Nambrath
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139	Strange hadron production in d+Au collisions at √sNN = 200 GeV using the STAR detector	Ishu Aggarwal
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270	Feasibility study of chiral symmetry restoration with ALICE	Keisuke Tomohiro
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392	ALICE as an (anti)hypernuclei factory	Janik Ditzel
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230	The shear viscosity of parton matter under two-body scatterings	Zi-Wei Lin
241	Revisiting Initial Condition Modeling of Heavy Ion Collisions with Bayesian Parameter Estimation Using the latest RHIC and LHC data	Maxim Virta
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710	Topology and entanglement in the baryon structure at small x.	David Frenklakh
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116	Exploring neutron stars with three conserved charges in a newly optimized C++ Chiral Mean Field code	Nikolás Cruz Camacho
122	Structure in the speed of sound: from neutron stars to heavy-ion collisions	Nanxi Yao
535	First Deuteron Production Measurement in Proton-Proton Interactions at SPS energies by NA61/SHINE	Anirvan Shukla
754	Repulsive Λ potential at high densities examined from heavy-ion collision and hypernuclear data	Asanosuke Jinno
771	Momentum shell and rapid stiffening in Quarkyonic matter from explicit duality	Yuki Fujimoto
823	Color-superconductivity of asymptotically conformal quark matter as a portal between astrophysics and heavy ions collisions	Oleksii Ivanytskyi

QCD AT FINITE DENSITY AND TEMPERATURE

Id	Title	Presenters
60	Shear Viscosity at High Chemical Potentials	Isabella Danhoni
132	An Augmented QCD Phase Portrait: Mapping Quark-Hadron Deconfinement for Hot, Dense, Rotating Matter under Magnetic Field	Gaurav Mukherjee
140	Probing the effect of the nonextensivity on the transport properties of hot QCD medium at finite magnetic field and chemical potential	Shubhalaxmi Rath
155	QCD mesonic screening masses using Gribov quantization	SUMIT N/A
218	Correlations of net-charge, net-kaon and net-proton in Pb-Pb at $\sqrt{s_\mathrm{NN}}$ = 5.02 TeV with ALICE	Swati Saha
233	Momentum transport coefficients with chiral dependent quark masses in thermal QCD medium	Pushpa Panday
242	Measurements of two-pion femtoscopy in Au+Au Collisions at $\sqrt{s_{\mathrm{NN}}}$ = 3.0, 3.2, 3.5, and 3.9 GeV from RHIC-STAR	Youquan Qi
363	Charged kaon and pion femtoscopy in the RHIC Beam Energy Scan at the STAR experiment	Eugenia Khyzhniak
429	$K^{+}K^{+}$ correlation functions in Au+Au collisions at 3.0 - 3.9 GeV	Bijun Fan
430	Proton-proton femstoscopy in Au+Au collisions at $\sqrt{s_{NN}}$ = 3.2 GeV	Yu Zeng
471	Studying magnetic fields in heavy-ion collisions using net-proton fluctuations with ALICE	Ilya Fokin
485	Strangeness production in Au+Au collisions at √sN N = 14.6 GeV using AMPT and UrQMD model	Pratibha Bhagat
570	Exploring thermoelectric Figure of Merit in QCD medium with conserved charges	He-Xia Zhang
647	Measurement of $K_{s}^{0}-K_{s}^{0}$ correlation function in Au+Au collisions at the high baryon density region	Li'Ang Zhang
682	Proton-cluster femtoscopy at the HADES experiment	Maria Stefaniak
693	PNJL equation of state with off-shell mesonic excitations	Konstantin Maslov
697	Self-consistent spectral properties of quarks and mesons in a chiral quark model	Hitansh Shah
699	Simulating heavy-ion collisions at BES energies	Thomas Welle
707	Exploring heat conductivity at RHIC Beam Energy Scan	Shujun Zhao
713	Measurements of proton-Λ and proton-Ξ^- Correlation Functions in Au+Au Collisions from STAR Fixed-Target Experiment	Jing An
755	Conserved number fluctuations under global rotation in a hadron resonance gas model	Gaurav Mukherjee
772	Measurement of the mass spectrum of vector mesons in nuclei at J-PARC	Tomoki Murakami

SMALL SYSTEMS

Id	Title	Presenters
9	Advanced coalescence model based on the Wigner function formalism	Chiara Pinto
104	Investigating collective effects in small collision systems using PYTHIA8 and EPOS4 simulations	Andrea Danu
221	Measurement of Two-Particle Correlations and Flow Coefficients in High Multiplicity e^+e^- Collisions using Archived ALEPH Data at 91-209 GeV	Yu-Chen Chen
309	Multi-parton interactions in pp collisions using charged-particle flattenicity with ALICE	Antonio Ortiz Velasquez
334	Measurements of long-range two-particle correlation over a wide pseudorapidity range in p--Pb collisions at 5.02 TeV	Yuko Sekiguchi
338	Applying the multiplicity-dependent Momentum Kick Model to the pp collisions at $\sqrt{s}=13$ TeV at the LHC	Jeongseok Yoon
343	Clocking the particle production and tracking radial flow effects at top LHC Run 3 energy with ALICE	Brian Gerald Hanley
364	Observation of a mesoscopic fluid of 10 strongly-interacting fermions	Giuliano Giacalone
368	Study of the three-body dynamics at short range via deuteron-hadron correlations by ALICE	Oton Vazquez Doce
398	Strangeness enhancement at LHCb	Desmond Mzamo
402	Insights on small collision systems in terms of hydrodynamics, pre-hydrodynamics, decorrelations, and non-flow	James Lawrence Nagle
409	Production of Σ baryons as a function of multiplicity in pp collisions at the LHC with ALICE	Benedict Heybeck
448	Search for medium-induced jet quenching effects in high-multiplicity pp collisions with ALICE	Dong Jo Kim
451	Measurements of harmonic flow and their fluctuations in ^{16}O+^{16}O collisions at $\sqrt{s_{_{\mathrm{NN}}}}=200$ GeV from STAR	Zhengxi Yan
624	Probing particle production and transport at top LHC Run 3 energy with ALICE	Victor Gonzalez
649	PHENIX measurements of identified charged hadron production in p+Al, p+Au, and Cu+Au collisions at $\sqrt{s_{NN}}$ = 200 GeV	Sanghoon Lim
748	Entropy and Multifractality in Hadron-Hadron Collisions at SPS and LHC Energies	Bushra Ali
792	Measurements of neutral pions and direct photons in 3He+Au collisions	Daniel Firak

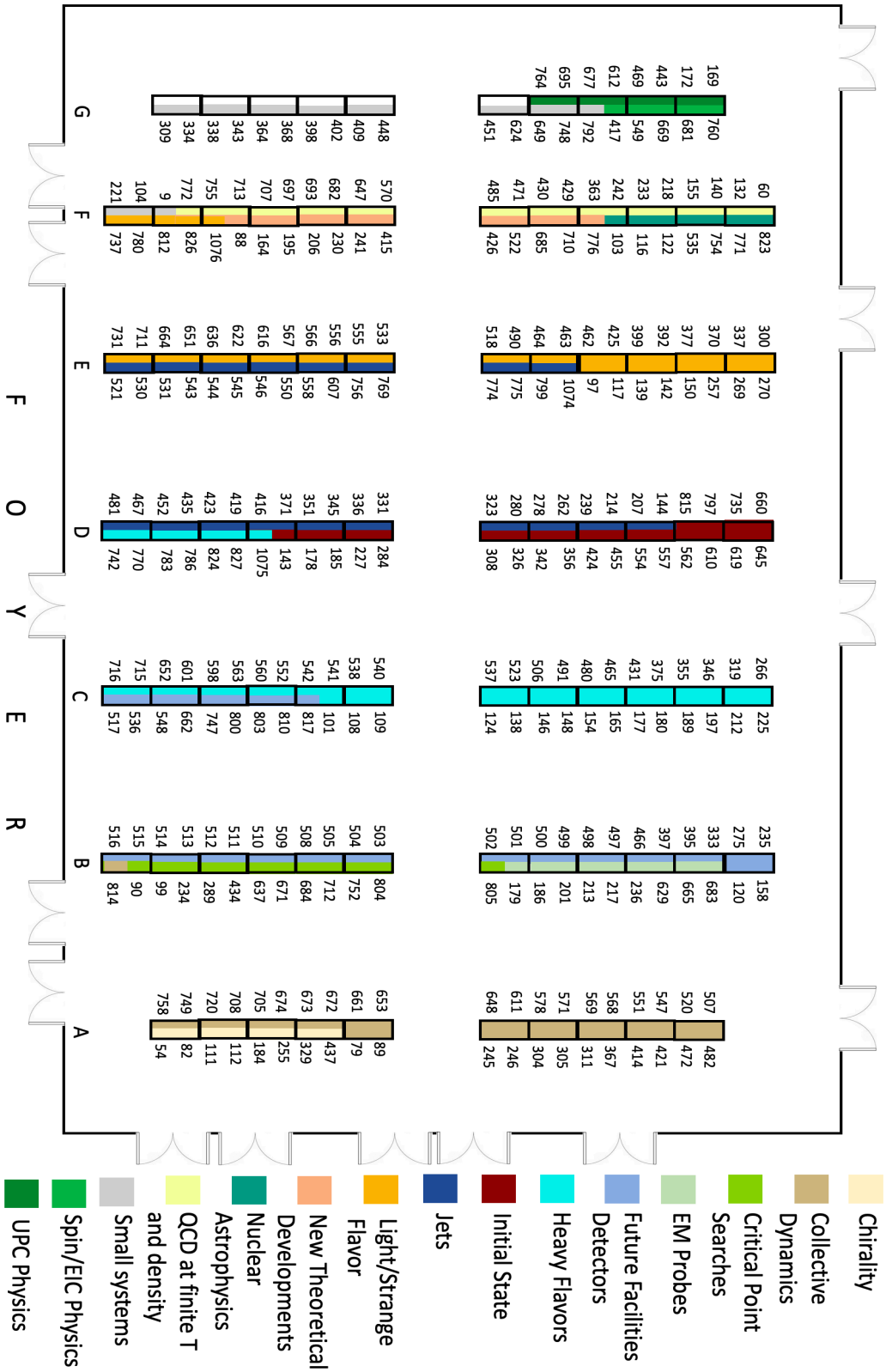
SPIN/EIC PHYSICS

Id	Title	Presenters
417	Target jet substructure and correlation	Yang-Ting Chien
549	Drell-Yan process at sPHENIX: a golden probe to study Cold Nuclear Matter effects	Charles-Joseph Naïm
669	Measuring the Global Spin Alignment of Vector Mesons in Heavy Ion Collisions by STAR	C.W. Robertson
681	Helicity polarization and vorticity contribution to the spin alignment in hydrodynamic approaches	Cong Yi
760	Feasibility of Spin Interference Gluon Tomography at the EIC with EPIC	Sam Corey

UPC PHYSICS

Id	Title	Presenters
169	Exploring light hadrons in UPCs with ALICE	Alexander Bylinkin
172	Studying the nucleus via angular correlations in UPCs with ALICE	Andrea Giovanni Riffero
443	Measurements of baryon-antibaryon and meson-antimeson pairs from QED vacuum excitation in Au+Au ultra-peripheral collisions at $\sqrt{s_{\rm{NN}}}	Xin Wu
469	Results on Breit-Wheeler Process in Heavy-Ion Collisions and its Application to Nuclear Charge Radius Measurements	Xiaofeng Wang
612	Observation of the $\gamma\gamma\to\tau\tau$ production in PbPb collisions with the CMS experiment	Matthew Nickel
677	Photoproduction of e^{+}e^{-} in peripheral isobar collisions	Shuo Lin
695	Observation of $\pi^+\pi^-\pi^+\pi^-$ photoproduction in ultraperipheral heavy-ion collisions at $\sqrt{s_{NN}} = 200$ GeV at the STAR detector	David Tlusty
764	Physics prospects of central exclusive production in pp collisions with ALICE Run 3 data	Minjung Kim

POSTER SESSION MAP



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