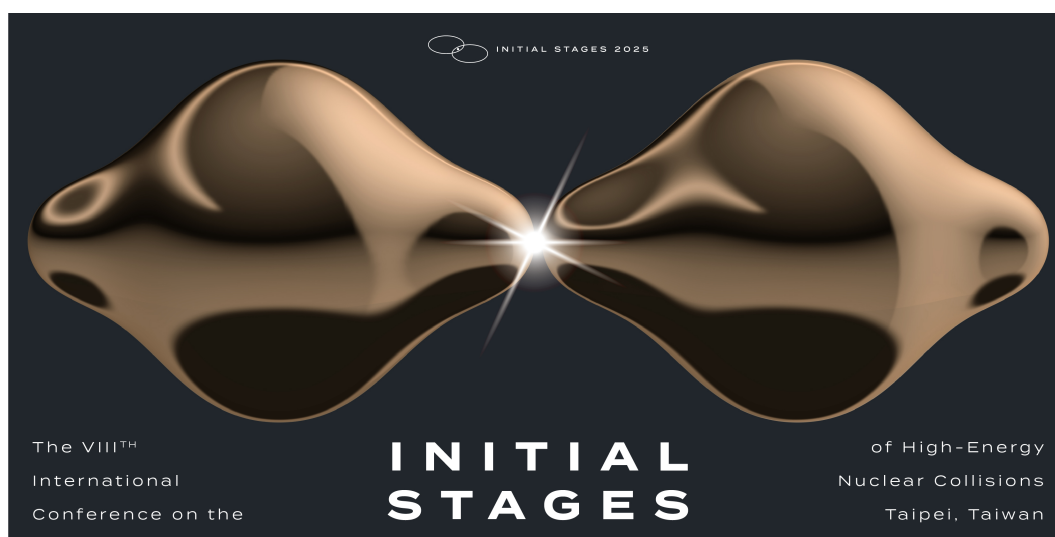


## **Session Program**

**7-12 Sept 2025**



# **The VIII-th International Conference on the Initial Stages of High-Energy Nuclear Collisions : Initial Stages 2025**

***Parallel session***

## Tuesday 9 September

14:00

### Parallel session: 1

**Session** | **Location:** The Forum, GIS NTU Convention Center | **Convener:** Prabhat Ranjan Pujahari

14:00–14:20

#### Charged particle production at mid and forward rapidities from small to large collision systems with ALICE

##### Speaker

Marta Urioni

14:20–14:40

#### sPHENIX measurements of bulk properties of Au+Au collisions

##### Speaker

Cheng-Wei Shih

14:40–15:00

#### Reconstructed Jets and Jet Substructure in 200 GeV p+p/p+Au/d+Au Collisions with PHENIX

##### Speaker

John Lajoie

15:00–15:20

#### sPHENIX measurements of jet and isolated photon production in p+p collisions at RHIC

##### Speakers

Daniel Lis, Daniel Lis

15:20–15:40

#### Probing the initial state with dijets in pPb collisions at 8.16 TeV with CMS

##### Speaker

Vipul Pant

15:40–16:00

#### Jet and heavy-flavor jet production in ultraperipheral proton-proton and PbPb collisions with CMS and TOTEM

##### Speaker

Jordan Lang

16:00

14:00

### Parallel session: 2

**Session** | **Location:** Plato, GIS NTU Convention Center | **Convener:** Clemens Werthmann

14:00–14:20

#### The Imprint of Preequilibrium in Jet Flow and Suppression

##### Speaker

Adam Takacs

14:20–14:40

#### Universal behaviour in 3+1D Full Relativistic Boltzmann in terms of Knudsen number and opacity

**Speaker**

Vincenzo Nigara

14:40–15:00

**Studying Collectivity in High-Multiplicity Proton-Proton Collisions with Viscous Anisotropic Hydrodynamics****Speaker**

Shujun Zhao

15:00–15:20

**Rapidity-dependent QGP equilibration in QCD kinetic theory****Speaker**

Luyao Fabian Zhou

15:20–15:40

**Anisotropic flow in small collision systems from a hybrid approach****Speaker**

Lucas Constantin

15:40–16:00

**Beyond Hydrodynamics: Modeling Early-Time Dynamics and Collective Flow in Small Systems with CoMBolt-ITA****Speaker**

Seyed Farid Taghavi

16:00

14:00

**Parallel session: 3****Session** | **Location:** Socrates, GIS NTU Convention Center | **Convener:** Aleksander Kusina

14:00–14:20

**Parton structures in deep inelastic scattering with quantum computing****Speaker**

Wenyang Qian

14:20–14:40

**Signals for fluctuating constituent numbers in small systems****Speaker**

Andreas Kirchner

14:40–15:00

**New parton distributions of the real photon.****Speaker**

Madhav Chithirasreemadam

15:00–15:20

**Rapid adiabatic hydrodynamization and a generalized picture of attractors in kinetic theory****Speaker**

Rachel Steinhorst

15:20–15:40

**Yoctosecond imaging of the shape of Xe-129 at the Large Hadron Collider****Speaker**

Govert Hugo Nijs

15:40–16:00

**(3+1)D event-by-event pre-equilibrium dynamics in heavy-ion collisions**

16:00

**Speaker**

Dr Jie Zhu

16:30

**Parallel session: 4****Session** | **Location:** The Forum, GIS NTU Convention Center | **Convener:** Cameron Dean

16:30–16:50

**J/ψ polarization measurement with ALICE at the LHC energies****Speaker**

Bhagyarathi Sahoo

16:50–17:10

**Upsilon production and polarization measurements in pp collisions with ALICE****Speaker**

Kshitish Kumar Pradhan

17:10–17:30

**Associated production of charm mesons in pp collisions with ALICE****Speaker**

Andrea Tavira

17:30–17:50

**sPHENIX measurement of open-charm baryon-to-meson ratios in p+p collisions at RHIC****Speaker**

Michael Joseph Peters

17:50–18:10

**Fraction of B-meson decays in J/ψ yields in p+p Collisions at  $\sqrt{s} = 200$  GeV measured by the PHENIX detector at RHIC****Speaker**

Rachid Nouicer

18:10

16:30

**Parallel session: 5****Session** | **Location:** Plato, GIS NTU Convention Center | **Convener:** Kenta Shigaki

16:30–16:50

**Measurements of J/ψ and impact of coincident photon induced processes in ultra-peripheral Pb+Pb collisions at TeV with the ATLAS detector****Speaker**

Peter Alan Steinberg

16:50–17:10

**Exploring the dense gluonic matter via charmonium and bottomonium photoproduction in Ultra Peripheral Collisions at CMS****Speaker**

Yu-Chen (Janice) Chen

17:10–17:30

**Probing gluonic matter with photoproduction of vector mesons in ultraperipheral collisions at CMS****Speaker**

Ms Pranjal Verma

18:10

16:30

18:10

17:30-17:50

**Study of Entanglement Enabled Spin Interference in peripheral Au+Au collisions with coherently photoproduced mesons in the STAR experiment**

**Speaker**

Dr Leszek Krzysztof Kosarzewski

17:50-18:10

**Investigating Entanglement Enabled Spin Interference in photonuclear  $\rho^0 \rightarrow \pi^+ \pi^-$  and  $\gamma \gamma \rightarrow \pi^+ \pi^-$  in Au+Au collisions at STAR**

**Speaker**

Samuel Corey

**Parallel session: 6**

**Session** | **Location:** Socrate, GIS NTU Convention Center | **Convener:** Dr Heikki Mäntysaari

16:30-16:50

**Glasma Role in Jet Quenching Effects**

**Speaker**

Pablo Guerrero Rodríguez

16:50-17:10

**Entanglement-Driven Correlations: A New Window into Early-Time QCD Dynamics**

**Speaker**

James Daniel Brandenburg

17:10-17:30

**From JIMWLK to CSS**

**Speaker**

Prof. Michael Lublinsky

17:30-17:50

**Exploring the nuclear structure at the TeV energy scale using reverse engineering**

**Speaker**

You Zhou

17:50-18:10

**Small systems with JEWEL and Trajectum**

**Speaker**

Isobel Kolbe

## Wednesday 10 September

09:00

### Parallel session: 7

**Session** | **Location:** The Forum, GIS NTU Convention Center | **Convener:** Raghunath Sahoo

09:00–09:20

#### Experimental discovery of the nuclear shape phase transition and nuclear structure on ultrashort timescales at the LHC with ALICE

##### Speaker

Maxim Virta

09:20–09:40

#### Probing Nuclear Structure and Parton Dynamics Using Jets with ATLAS

##### Speaker

Matthew Caleb Hoppesch

09:40–10:00

#### Top-Quark and Jet Probes of nPDFs with the ATLAS Experiment

##### Speaker

Benjamin Jacob Gilbert

10:00–10:20

#### Investigating nuclear shape effects in the Breit-Wheeler process through U+U UPCs at STAR

##### Speaker

Nicholas Jindal

10:20–10:40

#### Measurement of the Hard Exclusive $\pi^0$ Muoproduction at COMPASS

##### Speaker

Mr Po-Ju Lin

10:40

09:00

### Parallel session: 8

**Session** | **Location:** Plato, GIS NTU Convention Center | **Convener:** Yuko Sekiguchi

09:00–09:20

#### Recent flow and correlation measurements in large and small collision systems with ATLAS

##### Speakers

Somadutta Bhatta, Somadutta Bhatta

09:20–09:40

#### QCD collectivity and searching for strangeness enhancement in photonuclear collisions and high-multiplicity jets at CMS

##### Speaker

Prabhat Ranjan Pujahari

09:40–10:00

#### Probing collectivity with multiparticle and charge-dependent correlations in small systems at CMS

**Speaker**

Rohit Kumar Singh

10:00–10:20

**Probing the Neutron-Skin Effect with Charged--Hadron Ratios in Pb--Pb Collisions at  $\sqrt{s_{NN}} = 5.36$  TeV with ALICE****Speaker**

Bong-Hwi Lim

10:20–10:40

**Studies of the nuclear initial state and early EM fields in PbPb with measurements of top quark pair production and Z boson dimuon decays at CMS****Speaker**

Andre Govinda Stahl

10:40

09:00

**Parallel session: 9****Session** | **Location:** Socrates, GIS NTU Convention Center | **Convener:** Di-Lun Yang

09:00–09:20

**Next-to-leading order dilepton production from the pre-equilibrium****Speaker**

Mika Spier

09:20–09:40

**Quantum Evolution and Gluon Emission of Dressed Quarks in a SU(3) Colored Background****Speaker**

Meijian Li

09:40–10:00

**Thermalization in  $\phi^4$  theory via quantum computing****Speaker**

Iván Cuntín Broullón

10:00–10:20

**Nonperturbative particle production and evolution in the dynamic Glasma****Speaker**

Nicholas Benoit

10:20–10:40

**Observation of Universal Expansion Anisotropy from Cold Atoms to Hot Quark-Gluon Plasma****Speaker**

Fuqiang Wang

10:40

11:10

**Parallel session: 10****Session** | **Location:** The Forum, GIS NTU Convention Center | **Convener:** Yi Chen

11:10–11:30

**The first measurement of two-particle correlation function with W-boson-pair events using archived ALEPH data at 183-209 GeV****Speaker**

Tzu-An Sheng

11:30-11:50

**Quantifying the role of strangeness in baryon production mechanisms through angular correlations in pp collisions at 13.6 TeV with ALICE****Speaker**

Shirajum Monira

11:50-12:10

**Probing strangeness enhancement in proton-proton collisions using rapidity correlations among a  $\phi$  meson and a strange hadron with ALICE****Speaker**

Stefano Cannito

12:10-12:30

**Femtoscopic correlations between heavy and light flavor hadrons in heavy-ion collisions by STAR****Speaker**

Yi Yang

12:30

11:10

**Parallel session: 11****Session** | **Location:** Plato, GIS NTU Convention Center | **Convener:** Satoshi Yano

11:10-11:30

**SMOG: a high-density gas target at the LHCb experiment****Speaker**

Chiara Lucarelli

11:30-11:50

**FoCal - ALICE forward calorimeter upgrade****Speaker**

Takashi Hachiya

11:50-12:10

**Measurement of pion structure with Sullivan process and ePIC ZDC ECal development****Speaker**

Chia-Yu Hsieh

12:10-12:30

**Target jet substructure****Speaker**

Meng-Hsiu Kuo

12:30

11:10

**Parallel session: 12****Session** | **Location:** Socrates, GIS NTU Convention Center | **Convener:** Dana Avramescu

11:10-11:30

**Initial stage jet momentum broadening in a Light-Front Hamiltonian approach****Speaker**

Carlos Lamas

11:30-11:50

**Tracing early time dynamics through high energy probes****Speaker**

Dr Souvik Priyam Adhya



11:50-12:10

**Equilibration and Hydrodynamic Onset in Small and Large Systems.**

**Speaker**

Cendikia Abdi

12:10-12:30

**Inferring the initial condition for the BK evolution at next-to-leading order accuracy**

**Speaker**

Carlisle Aurabelle Casuga

12:30