

**Quark-Gluon Plasma in
Heavy-Ion Collisions -
Quantifying and
Understanding Its
Near-Perfect Fluidity 2025**

Report of Contributions

Contribution ID: 1

Type: **not specified**

Registration

Sunday, 14 September 2025 14:00 (6 hours)

Contribution ID: 3

Type: **not specified**

From large & cold to small & hot: Same same or different?

Monday, 15 September 2025 08:30 (30 minutes)

Presenter: SCHUKRAFT, Juergen

Session Classification: Session 1

Contribution ID: 4

Type: **not specified**

From QCD to QGP: A 50-year journey to the extremes

Monday, 15 September 2025 09:00 (30 minutes)

Presenter: WANG, Xin-Nian

Session Classification: Session 1

Contribution ID: 5

Type: **not specified**

Overview for RHIC Beam Energy Scan

Monday, 15 September 2025 09:30 (30 minutes)

Presenter: XU, Nu

Session Classification: Session 1

Contribution ID: 6

Type: **not specified**

What else can we do with isobar collisions at RHIC

Monday, 15 September 2025 10:30 (30 minutes)

Presenter: XU, Zhangbu

Session Classification: Session 2

Contribution ID: 7

Type: **not specified**

A journey of flow over the past decades

Monday, 15 September 2025 11:00 (30 minutes)

Presenter: SNELLINGS, Raimond

Session Classification: Session 2

Contribution ID: 8

Type: **not specified**

Determination of QGP Parameters with a Bayesian Analysis

Monday, 15 September 2025 11:30 (30 minutes)

Presenter: BASS, Steffen

Session Classification: Session 2

Contribution ID: 9

Type: **not specified**

Phase diagrams and random matrix theory beyond physics

Monday, 15 September 2025 14:00 (30 minutes)

Presenter: AARTS, Gert

Session Classification: Session 3

Contribution ID: 10

Type: **not specified**

Spaghetti of Quarks with Glueballs: connection between sQGP and Quarkyonic Matter

Monday, 15 September 2025 14:30 (30 minutes)

Presenter: FUKUSHIMA, Kenji

Session Classification: Session 3

Contribution ID: 11

Type: **not specified**

Baryon Electric Charge Correlation as a Magnetometer of QCD

Monday, 15 September 2025 15:00 (30 minutes)

Presenter: DING, Hengtong

Session Classification: Session 3

Contribution ID: 12

Type: **not specified**

Discovery of the finest droplet of QGP

Monday, 15 September 2025 16:00 (30 minutes)

Presenter: ZHOU, You

Session Classification: Session 4

Contribution ID: 13

Type: **not specified**

Quantify collectivity via radial flow fluctuation

Monday, 15 September 2025 16:30 (30 minutes)

Presenter: JIA, Jiangyong

Session Classification: Session 4

Contribution ID: 14

Type: **not specified**

QCD Collectivity inside a Jet: A New Window into the Ultimate Quark-Gluon Droplet

Monday, 15 September 2025 17:00 (30 minutes)

Presenter: LI, Wei

Session Classification: Session 4

Contribution ID: 15

Type: **not specified**

Hyperon polarization in heavy ion collisions - experimental highlights

Tuesday, 16 September 2025 08:30 (30 minutes)

Presenter: CHEN, Zhenyu

Session Classification: Session 5

Contribution ID: 16

Type: **not specified**

An improved formula for spin polarization at local thermodynamic Equilibrium

Tuesday, 16 September 2025 09:00 (30 minutes)

Presenter: BECATTINI, Francesco

Session Classification: Session 5

Contribution ID: 17

Type: **not specified**

Spin polarization and extension of the Bargmann-Michel-Telegdi equation

Tuesday, 16 September 2025 09:30 (30 minutes)

Presenter: PU, Shi

Session Classification: Session 5

Contribution ID: **18**

Type: **not specified**

Dynamical initialization of QGP fluids through core-corona picture

Tuesday, 16 September 2025 10:30 (30 minutes)

Presenter: HIRANO, Tetsufumi

Session Classification: Session 6

Contribution ID: 19

Type: **not specified**

Revealing many-body properties of QCD matter at high-energy colliders

Tuesday, 16 September 2025 11:00 (30 minutes)

Presenter: GIACALONE, Giuliano

Session Classification: Session 6

Contribution ID: 20

Type: **not specified**

From Wave function to Collision Geometry in Glauber Model

Tuesday, 16 September 2025 11:30 (30 minutes)

Presenter: KE, Weiyao

Session Classification: Session 6

Contribution ID: 21

Type: **not specified**

A Bayesian extraction of the shape of Xe-129

Tuesday, 16 September 2025 13:30 (30 minutes)

Presenter: NIJS, Goevert

Session Classification: Session 7

Contribution ID: 22

Type: **not specified**

Exploring Nuclear Shape Transitions and Shape Vibrations in Relativistic Heavy-Ion Collisions

Tuesday, 16 September 2025 14:00 (30 minutes)

Presenter: ZHAO, Shujun

Session Classification: Session 7

Contribution ID: 23

Type: **not specified**

Hydrodynamic attractors: from models of nuclear collisions towards cold atom experiments

Tuesday, 16 September 2025 14:30 (30 minutes)

Presenter: HELLER, Michal

Session Classification: Session 7

Contribution ID: 24

Type: **not specified**

Machine learning for nuclear physics

Tuesday, 16 September 2025 15:30 (30 minutes)

Presenter: PANG, Long-Gang

Session Classification: Session 8

Contribution ID: 25

Type: **not specified**

A theory discussion on new results from oxygen and neon collisions at the LHC

Tuesday, 16 September 2025 16:00 (30 minutes)

Presenter: SCHEE, Wilke Van Der

Session Classification: Session 8

Contribution ID: 26

Type: **not specified**

On-line CERN seminar: Results from the recent 2025 light ion LHC run by ALICE ATLAS CMS and LHCb

Tuesday, 16 September 2025 16:30 (30 minutes)

<https://webcast.web.cern.ch/event/i1586852>

Presenter: (ON-LINE) , <https://webcast.web.cern.ch/event/i1586852>

Session Classification: Session 8

Contribution ID: 27

Type: **not specified**

UPC experiment: status and update

Wednesday, 17 September 2025 08:30 (30 minutes)

Presenter: ZHA, Wangmei

Session Classification: Session 9

Contribution ID: 28

Type: **not specified**

What have UPCs taught us about small- x , saturation physics and initial conditions of heavy-ion collisions

Wednesday, 17 September 2025 09:00 (30 minutes)

Presenter: ZHAO, Wenbin

Session Classification: Session 9

Contribution ID: 29

Type: **not specified**

Developments on jet transport in heavy-ion collisions

Wednesday, 17 September 2025 09:30 (30 minutes)

Presenter: CAO, Shan-Shan

Session Classification: Session 9

Contribution ID: 30

Type: **not specified**

Hydrodynamics and thermalization in terms of entropy production in heavy-ion collisions

Wednesday, 17 September 2025 10:30 (30 minutes)

Presenter: LI, Yan

Session Classification: Session 10

Contribution ID: 31

Type: **not specified**

Benchmarking parton cascade with an exact solution of the Boltzmann equation

Wednesday, 17 September 2025 11:00 (30 minutes)

Presenter: LIN, Zi-Wei

Session Classification: Session 10

Contribution ID: 32

Type: **not specified**

Physics feasibility and status of NICA-MPD

Wednesday, 17 September 2025 11:30 (30 minutes)

Presenter: TANG, Zebo

Session Classification: Session 10

Contribution ID: 33

Type: **not specified**

Temperature Measurement of QGP via Thermal Dileptons

Wednesday, 17 September 2025 14:00 (30 minutes)

Presenter: YE, Zaochen

Session Classification: Session 11

Contribution ID: 34

Type: **not specified**

Exploring the shape of transverse momentum spectra

Wednesday, 17 September 2025 14:30 (30 minutes)

Presenter: LUZUM, Matthew

Session Classification: Session 11

Contribution ID: 35

Type: **not specified**

Flow correlations and their efficiency correction

Wednesday, 17 September 2025 15:00 (30 minutes)

Presenter: KITAZAWA, Masakiyo

Session Classification: Session 11

Contribution ID: 36

Type: **not specified**

Proton number fluctuations in azimuthal angle

Wednesday, 17 September 2025 16:00 (30 minutes)

Presenter: BOŹEK, Piotr

Session Classification: Session 12

Contribution ID: 37

Type: **not specified**

Late time dynamics of correlation function in diffusive systems

Wednesday, 17 September 2025 16:30 (30 minutes)

Presenter: ABBASI, Navid

Session Classification: Session 12

Contribution ID: 38

Type: **not specified**

Deuteron elliptic flow in ultrarelativistic heavy-ion collisions

Wednesday, 17 September 2025 17:00 (30 minutes)

Presenter: TOMASIK, Boris

Session Classification: Session 12

Contribution ID: 39

Type: **not specified**

Simulating quantum field theories in real time

Wednesday, 17 September 2025 17:30 (30 minutes)

Presenter: SHI, Shuzhe

Session Classification: Session 12