

SCIENTIFIC PROGRAMME

September 27, 2026, Sunday – Arrivals

September 28, 2026, Monday

Registration 8:30-9:20

Morning session 9:20 – 12:40 (Time Zone Istanbul GM+3)

Chair: Marcus BLEICHER

09:20- 09:30 OPENING CEREMONY

09:30-10:00 **Wolfgang TRAUTMANN**

ASY-EOS II and the nuclear equation of state

10:00-10:30 **Marcus BLEICHER**

Charmed nuclei and exotic charmed meson production at CBM@FAIR and ALICE@LHC

10:30 – 11:00 COFFEE BREAK

11:00-11:30 **Alexander BOTVINA**

Many-body nucleosynthesis in nucleus-nucleus collisions at intermediate and high energies

11:30-12:00 **Ryoko KINO**

Precision measurement of the hypertriton lambda-binding energy via decay-pion spectroscopy at MAMI

12:00-12:20 **Tom REICHERT**

Multi-fluid hydrodynamics with continuous decoupling

12:20-12:40 **Carl ROSENKVIST**

Strong color fields as a source of non-equilibrium strangeness enhancement in heavy-ion collisions

12:40 -16:00 LUNCH BREAK

Afternoon session 16:00 -18:40

Chair: Rıza OGUL

16:00-16:30 COFFEE BREAK

16:30-17:00 **Bao-An LI**

Trace anomaly of dense matter from heavy-ion reactions and neutron stars

17:00-17:30 **Pasi HUOVINEN**

The multi-fluid model MUFFIN: A status report

17:30-18:00 **Kai-Jia SUN**
Femtoscscopy reveals how light nuclei are formed at LHC

18:00-18:20 **Ismail BOZTOSUN**
Turkish accelerator and radiation laboratory

18:20- 18:40 **Necla CAKMAK**
Beta-decay properties of Rb-92 and Cs-142 within the pn-QRPA

September 29, 2026, Tuesday

Morning session 9:00 - 12:40 Time Zone Istanbul (GM+3)

Chair: Ismail BOZTOSUN

09:00- 09:30 **Takehiko SAITO**
Hunting for hypernuclei with heavy-ion beams and machine learning

09:30-10:00 **Iurii KARPENKO**
Construction and benchmarks of dynamic fluidisation model for FAIR energies

10:00-10:30 **Christoph BLUME**
Energy dependence of stopping and particle production

10:30 – 11:00 COFFEE BREAK

11:00-11:30 **Alberto CAMAIANI**
Deepening the latest INDRA FAZIA results at sub-saturation densities

11:30-12:00 **Shun FURUSAWA**
Nuclei, multi-neutron systems, and hypernuclei in hot and dense stellar environments

12:00-12:20 **Jan STEINHEIMER-FROSCHAUER**
The isospin-dependent CMF-EoS in UrQMD

12:20-12:40 **Nihal BUYUKCIZMECI**
Transport model simulations for normal and strange nuclei in heavy ion collisions

12:40 -16:00 LUNCH BREAK

Afternoon session 16:00 -18:40

Chair: Necla CAKMAK

16:00-16:30 COFFEE BREAK

16:30-17:00 **Riza OGUL**
Implications of the yield ratios in central heavy-ion collisions at 270 MeV/nucleon beam energy

17:00-17:30 **Joerg AICHELIN**

Subthreshold particle production - a very promising research field

17:30-18:00 **Elena BRATKOVSKAYA**

Probing the nuclear equation of state with clusters and hypernuclei

18:00-18:20 **Tianhao SHAO**

Measurement of Λ binding energies of light hypernuclei in Au+Au collisions at 3 GeV at RHIC

18:20- 18:40 **Ali Ihsan KILIC**

From condensed-matter electron screening to lattice-structured active shielding: Low-energy d+d fusion as a design pathway for compact space propulsion

September 30, 2026, Wednesday

Morning session 9:30 - 12:00 Time Zone Istanbul (GM+3)

Chair: Nihal BUYUKCIZMECI

9:30- 11:00 Discussion session

10:30 – 11:00 COFFEE BREAK

12:00-18:00 Excursion

October 1, 2026, Thursday

Morning session 9:00 - 12:40 Time Zone Istanbul (GM+3)

Chair: Serkan AKKOYUN

9:00- 09:30 **Victor RIABOV**

Status and preparation for the first physics with the MPD experiment at NICA

9:30- 10:00 **Arkadiy TARANENKO**

Anisotropic collective flow at high baryon density

10:00-10:30 **Jameel UN-NABI**

Enhanced heating rates for superburst ignition

10:30 – 11:00 COFFEE BREAK

11:00-11:30 **Josef POCHODZALLA**

The quest for light systems with extreme neutron content

11:30-12:00 **Christoph HEROLD**

Chronology of dilepton emission in baryon-rich QCD matter as a probe of the QCD phase structure

12:00-12:20 **Emrah TIRAS**

Investigating neutron interactions and capture with complementary detector technologies

12:20-12:40 **Lina JERITSLEV**
Dilepton production in the UrQMD transport approach at SIS energies

12:40 -16:00 LUNCH BREAK

Afternoon session 16:00 -18:40

Chair: Mahmut BOYUKATA

16:00-16:30 COFFEE BREAK

16:30-17:00 **Boris TOMASIK**
Elliptic flow of deuterons in ultrarelativistic heavy-ion collisions

17:00-17:30 **Vadim KOLESNIKOV**
The BM@N experiment at NICA: status of the detector and progress in data analysis

17:30-18:00 **Simone MANTI**
High-precision spectroscopy of kaonic atoms at SIDDHARTA-2: probing fundamental interactions

18:00-18:20 **Deineng LIU**
Hadron polarization and equation of state at FAIR/RHIC-BES energies

18:20- 18:40 **Ismail Hakki SARPUN**
Microscopic folding analysis of neutron elastic scattering on ^{90}Zr

19:00- 22:00 CONFERENCE DINNER

October 2, 2026, Friday

Morning session 9:00 - 12:40 Time Zone Istanbul (GM+3)

Chair: Emrah TIRAS

9:00- 09:30 **Emiko HIYAMA**
Structure of light $S=-2$ hypernuclei

9:30- 10:00 **Sandro BARLINI**
The INDRA+FAZIA experimental setup: recent developments and scientific opportunities at Fermi energies

10:00-10:30 **Frank NERLING**
Search for the $Y(2175)$ in the photoproduction cross section measurement of $\gamma p \rightarrow \phi \pi^+ \pi^- p$ at GlueX

10:30 – 11:00 COFFEE BREAK

11:00-11:20 **Serkan AKKOYUN**
Comparison of classical and quantum circuit-based machine learning approaches supported by feature engineering in nuclear radius prediction

11:20-11:40

Mahmut BOYUKATA

Genetic algorithm optimization of IBM-1 parameters for the study of some nuclear structure properties

11:40-12:10

Behruz KARDAN

Flow phenomena at high nuclear densities with HADES

12:10-12:40

Xian-Rong ZHOU

Effects of Λ hyperon on nuclear structure

12:40-13:10

Evgeny KOLOMEITSEV

Nuclear symmetry energy from neutron stars and heavy-ion collisions

13:10-13:20

CLOSING REMARKS