

Closing remarks of AYSS-2022

Liudmila Kolupaeva & Diana Seitova
on behalf of Organizing Committee

XXVI International Scientific Conference of Young Scientists and Specialists (AYSS-2022)

9 plenary lectures on JINR scientific program

20 posters were presented in-person

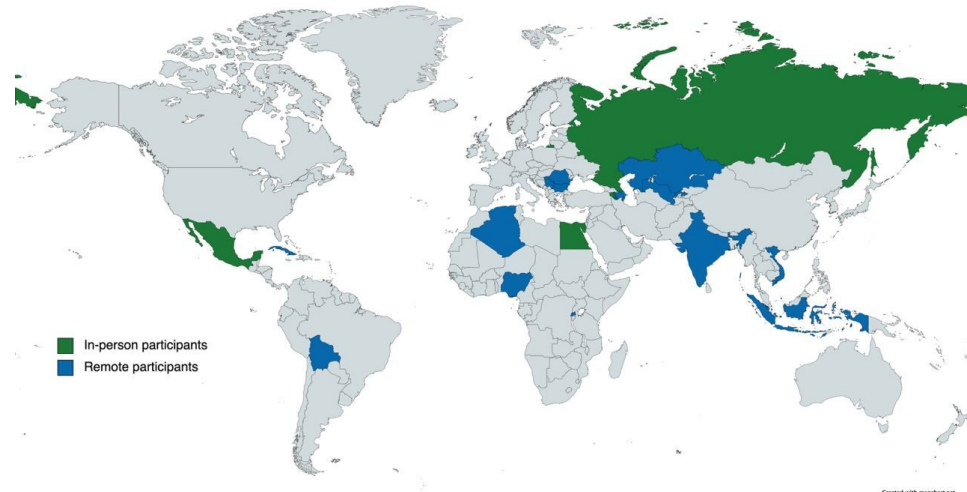
~13 posters to be presented online today at 2 p.m

~150 oral talks in previous days

Excursions today to the Laboratory of Nuclear Reactors, Laboratory of Information Technologies, Laboratory of Neutron Physics, Laboratory of Radiation Biology, interactive exposition (DK Mir)

Online excursions for remote participants are available on indico web page

Young scientists in person from JINR, Russian institutes, Egypt, Armenia, Mexico, Ghana.
And participants from many other countries remotely.



Proceedings of the conference

- Proceedings will be published in “The journal of Physics of Elementary Particles and Atomic Nuclei, Letters”.
- All participants with oral presented talks are invited to publish contributions. All papers are subject to refereeing.
- Submission deadline – November 14th, 2022, send to the ayssconf@jinr.ru
- More details, templates in latex/word can be found in indico page of the conference.

JINR programs for students

- International Student Practice at JINR (3-year BSc's - 1-year PhD's) [link](#)
- International Remote Student Training at JINR (3-year BSc's - 1-year PhD's) [link](#) - do online science!
- Start Programme for students (or students from all over the world who specialise in science, engineering, and IT, starting from their 3rd year of undergraduate studies up to the 1st year of PhD.) [link](#)
 - Deadline for registration for current wave is Oct. 30
- Scientific schools for your teachers in physics (suggest to participate) [link](#)
- Engineering and Physics Training: opportunity to do hands-on work using real equipment. [link](#)
- Do your thesis or diploma at JINR (possible themes and advisors are [here](#)). JINR scientists, participate as supervisors and train students.



please send the
photos to
ayssconf@jinr.ru to
share with everyone

Conference feedback

anonymous survey

What did you like in the conference?

What did you not like in the conference?

Wishes, recommendation so we could make next conferences better.

Awards of the best talks and posters



The Best oral talk in Life Science

Pavel Nekhoroshkov (FLNP)

for the report:

*“Neutron activation analysis for
studies of elemental variability
in the wild and farmed
molluscs”*

The Best oral
talk in

Applied
Research

Ivan Gorodnov (DLNP)

for the report:

*“Dilution cryostats as a
part of Atomic Hydrogen
Targets for electron beam
polarimetry”*

The Best oral
talk in
Applied
Research

Meir Yerdauletov (FLNP)

for the report:

*“EFFECT OF CARBON
ADDITIVES ON THE
STRUCTURE OF
ELECTRODES FOR HIGH
ENERGY DENSITY Li-ION
BATTERIES”*

The Best oral talk in

Mathematical Modeling
and Computational
Physics

Alexander Nezvanov (FLNP)

for the report:

*“Monte Carlo Simulation of the
Extraction System for Very
Cold Neutrons Using a
Nanodiamond Reflector”*

The Best oral talk in

Mathematical Modeling
and Computational
Physics

Maria Dima (FLNP)

for the report:

*“Use case application of
SU2 software package”*

The Best oral
talk in
High Energy
Physics

Anastasiia Seminiuk
(Irkutsk State University)

for the report:

*“Analysis of the counting
rate of non-trigger signals
at the Baikal-GVD neutrino
telescope”*

The Best oral
talk in
High Energy
Physics

Artem Vasyukov (DLNP)

for the report:

*“Amplitude analysis
methods for the
experimental studies of
multi-quark states”*

The Best oral
talk in
High Energy
Physics

Dmitriy Ponkin (VBLHEP)

for the report:

*“The Electron String Ion
Sources (ESIS) cathode
node electronics
development”*

The Best oral
talk in
High Energy
Physics

Anastasia Tropina (DLNP)

for the report:

*“Study of the Higgs boson
production with a single top
quark in ATLAS experiment”*

The Best oral
talk in
High Energy
Physics

Ksenia Alishina (VBLHEP)

for the report:

*“TOF700 to ZDC track
matching on the Ar - data at
the BM@N experiment”*

The Best oral
talk in
Theoretical
Physics

Evgenii Mardyban (BLTP)

for the report:

*“Evolution of the
phenomenologically
determined collective potential
along the chain of Zr isotopes”*

The Best oral
talk in
Theoretical
Physics

Alfiia Mukhaeva (BLTP)

for the report:

*“Evolution of the
phenomenologically
determined collective potential
along the chain of Zr isotopes”*

The Best oral talk in Theoretical Physics

Artem Roenko (BLTP)

for the report:

“Thermal phase transition in
rotating QCD with $N_f = 2$
clover-improved Wilson
fermions”

The Best oral
talk in
Theoretical
Physics

Maxim Bezuglov (BLTP)

for the report:

*“Frobenius solution for
non-polylogarithmic Feynman
integrals and hypergeometry
expansion”*

The Best oral
talk in

Particle Accelerators
and Nuclear Reactors

Kirill Berestov (FLNR)

for the report:

*“Investigations of
characteristics of 2.45 GHz
ECR ion source”*

The Best oral talk in

Particle Accelerators
and Nuclear Reactors

Samiru Alhassan

(National Research Tomsk
Polytechnic University)

for the report:

“CORE-OPTIMIZATION OF
RITM-200 REACTOR FUEL
CONSIDERING THORIUM
FUEL CYCLE”

The Best oral
talk in
Condensed
Matter Physics

Vladimir Zhaketov (FLNP)

for the report:

“Investigation of
superconducting-ferromagnetic
heterostructures by polarized
neutron reflectometry with
secondary radiation
registration”

The Best oral
talk in
Condensed
Matter Physics

Željko Mravik

(University of Belgrade)

for the report:

*“Conductivity and
electrochemical charge storage
capacity of thermally treated and
ion-beam irradiated graphene
oxide/12-tungstophosphoric acid
nanocomposites”*

The Best oral
talk in
Condensed
Matter Physics

Olga Lis (FLNP)

for the report:

*“THE PRESSURE EFFECT
ON CRYSTAL AND
MAGNETIC STRUCTURES
OF VAN DER WAALS
MATERIALS”*

The Best oral
talk in
Experimental
Nuclear Physics

Roman Mukhin (FLNR)

for the report:

*“Multiplicity distributions of
prompt neutrons from
spontaneous fission. Restoring
techniques: advantages and
limitations”*

The Best oral
talk in
Experimental
Nuclear Physics

Ivan Suslov (DLNP)

for the report:

*“R&D of tellurium-loaded liquid
scintillator”*

The Best oral
talk in
Information
Technology

Yuri Butenko (MLIT)

for the report:

*“BIOHLIT for automation of
biological research at JINR”*

The Best oral
talk in
Information
Technology

Timofey Smolyanin
(VBLHEP)

for the report:

“Control and monitoring system
for the SRC experiment at
BM@N”

The Best poster in offline poster session

Inna Kolesnikova (LRB)

for the report:

“The influence of total gamma radiation on behavior and brain changes of aged mice”

Big thanks to the members of Organizing Committee & everyone who cooperated in organizing this event!

See you in near future! With best wishes,
organizing committee