

SCIENCE BRINGS NATIONS TOGETHER



JOINT INSTITUTE FOR NUCLEAR RESEARCH

JINR Newsletter #9, 26 May 2022

A regular session of the JINR Committee of Plenipotentiary Representatives was held in Dubna. The event was the first for Egypt, a new JINR family member. Read about the results of the session in the Newsletter.

Today, the Joint Institute celebrates the Independence Day of Georgia, a JINR Member State. Moreover, the JINR multinational family will celebrate the Independence Day of Azerbaijan on 28 May and the Italian National Day and Republic Day on 2 June.

Another holiday celebrated at the Institute this week is the 65th anniversary of the Flerov Laboratory of Nuclear Reactions. A brilliant scientist Yuri Oganessian will make the report "Boundaries and structure of atomic nuclei" at the festive event. Let your colleagues know about it by sending them a sticker from a special Telegram sticker set (<https://t.me/jinrofficial/270>).

Read about this and other events in the new issue of the JINR Newsletter.

JINR Press Office



Telegram
[@jinrofficial](https://t.me/jinrofficial)

Information of JINR Directorate on current situation

Please, get acquainted with an official information of the Directorate of the Joint Institute for Nuclear Research on the current situation. Latest update: 26 May 2022.

READ MORE ➡

Advisory Bodies

Session of Committee of Plenipotentiary Representatives of JINR

On 25 May, a session of the Committee of Plenipotentiary Representatives of the Governments of the JINR Member States was held. JINR Director Grigory Trubnikov presented the report on the key results of the Institute. It was noted that 95% of the construction works at the NICA accelerator complex had been completed.



[READ MORE ➡](#)

JINR Finance Committee session

At the session of the JINR Finance Committee held in Dubna on 23 May, an expert assessment was presented demonstrating that JINR showed a good level of budget implementation: in 2021, the Institute's budget revenue was fulfilled by 98%, the expenditure part by 86%. The Institute's budget has a positive balance at the end of the year.

[READ MORE ➡](#)

Research

When science is in the service of arts

Employees of the FLNP JINR Group of Neutron Activation Analysis Olga Filippova and Andrey Dmitriev are at an altitude of 20 metres conducting in situ studies of the elemental composition of pigments of frescoes of the Trinity Cathedral (15th century) of Holy Trinity Sergius Lavra in Sergiev Posad.



[READ MORE ➡](#)

JINR has received the patent for a device for resonance charge of a capacitor

Changes made to the device design allow authors Sergey Dolya and Victor Smirnov to fully protect the invention from copying. The modified device design allows obtaining only negative but higher voltage.

[READ MORE ➡](#)

Digital system by MLIT for environmental monitoring

In a science project, it is important not only to get data, but also to be able to process it. The team of the Laboratory of Information Technologies JINR has developed a data management system for the UN environmental project UNECE ICP Vegetation coordinated by the Laboratory of Neutron Physics JINR.

[READ MORE ➡](#)

Education

7th Wave of INTEREST

The JINR University Centre is about to finish the registration for Wave 7 of the INTEREST programme, which is still available until 30 May 2022. INTEREST is an online JINR programme for students studying science, engineering, IT, as well as for postgraduates from all over the world.



READ MORE ➡➡

Why not to be a turner?

At the beginning of 2022, the college of Dubna State University began training DLNP employees who wanted to master the skills of working on universal lathes and milling machines.

READ MORE ➡➡

Club of Future Scientists at JINR Museum invites

During the next classes of “Classroom lessons in the JINR Museum”, JINR employees will discuss with schoolchildren a new topic “Sound”. To get to the lesson and learn a lot of interesting things about what sound is and how it works, please register by writing the name to the VK group.

READ MORE ➡➡

Days of Physics – 2022

On 1 – 3 June 2022, all interested are kindly invited to participate in Days of Physics – 2022. Days of Physics in Dubna is a fun science festival for school students. Physics and mathematics, chemistry and biology, entertaining experiments, a quest and non-trivial tasks, team competitions and DIY workshops.

READ MORE ➡➡

Students of PRUE branches at MLIT

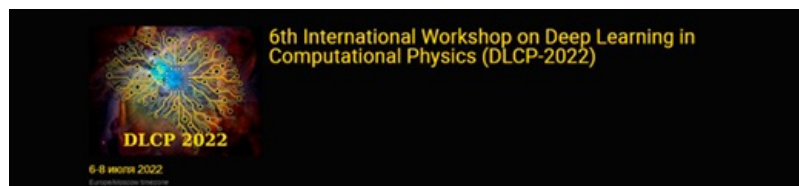
On 17 May 2022, the Meshcheryakov Laboratory of Information Technologies conducted a seminar “Big Data Analytics and Supercomputer Technologies Worldwide” for students from 15 branches of Plekhanov Russian University of Economics (PRUE).

READ MORE ➡➡

Conferences

Deep learning in computational physics will be discussed in MLIT

On 6 – 8 July, the Meshcheryakov Laboratory of Information Technologies JINR will host the 6th international workshop DLCP-2022. The workshop primarily focuses on the use of machine learning in particle astrophysics and high-energy physics, but is not limited to this area. Topics of interest are various applications of artificial neural networks to physical problems, as well as the development of new modern machine learning methods for analysing various scientific data, including big data.



[READ MORE ➡](#)

At DUNE Collaboration meeting

In May, the DUNE collaboration meeting was held at Fermi National Accelerator Laboratory (USA) for the first time since the coronavirus pandemic. At the meeting, a DLNP employee Alexander Selyunin made a report on the light readout system of the time-projection chamber filled with liquid argon at the Near Detector DUNE.

[READ MORE ➡](#)

Publications

New JINR brochure issued

The JINR Press Office issued a new brochure for a regular session of the Committee of Plenipotentiaries of the Governments of the JINR Member States held in Dubna. The brochure is dedicated to the main scientific areas of the Institute and its strategic development.



[READ MORE ➡](#)

JINR News bulletin #2 2022 issued

The 2nd issue of the JINR News bulletin 2022 was issued. It is published once 3 months and provides information on new scientific results obtained at JINR laboratories, progress in performance of large-scale experiments, construction of new installations, discoveries, inventions, etc.

[READ MORE ➡](#)

Proceedings of ISINN-28

The JINR Publishing Department has published the proceedings of one of the central conferences of the last year at JINR: the 28th International Seminar on Interaction of Neutrons with Nuclei (Dubna, Russia, 24 – 28 May, 2021).

READ MORE ➡

Radiation protection of high energy accelerators

JINR has published a book by G. N. Timoshenko "Radiation protection of high energy accelerators". The book reveals the main issues related to the specifics of the formation of ionizing radiation fields at high energy proton and heavy ion accelerators, activation of equipment, refrigerants, air and protection, development of radiation monitoring tools, etc.

READ MORE ➡

People of JINR

First AYSS seminar: bright beginning

On 19 May, a DLNP postdoc Yuri Malyshkin opened the AYSS seminar series with the lecture "Baikal-GVD: at the origins of neutrino astronomy". The format of the event and the material presentation immediately won the trust of listeners. The following seminar will be held today: [Alexey Aparin with a report "Heavy ion physics: how experiments are conducted at high energies"](#).



READ MORE ➡

Time's Witnesses: Georgy Alexandrovich Chelkov

An interview with Georgy Alexandrovich Chelkov, Candidate of Physics and Mathematics, a leading researcher of the DLNP Experimental Department of Colliding Beams.

READ MORE ➡

Sports

Table tennis

The JINR Stadium "Nauka" hosted the city Championship among collectives of physical training in table tennis. The JINR team confidently took the first place!

READ MORE ➡

Weightlifting

The JINR Sports Club hosted the JINR Weightlifting Championship dedicated to the 66th JINR anniversary. The competitions were held at a high level, the athletes showed excellent results. Guests from the cities of the Moscow region participated in the event.



READ MORE →

Media

Video: Seminar by Vladimir Yurevich

We kindly invite all interested to watch the record of the seminar “Phenomenological model for description of fission cross sections of heavy nuclei in high energy region” by Vladimir Yurevich, which took place on 26 May in VBLHEP.

WATCH →

Video: Seminar by Ivanhoe Pestov

We kindly invite all interested to watch the record of the seminar “Quantum mechanics and general relativity. How and why to merge?” by Ivanhoe Pestov, which took place on 27 May in VBLHEP.

WATCH →

JINR Weekly Newspaper issued

New issue of the JINR Weekly Newspaper #19 has been published. Please note that you can read an English version on the JINR Newspaper’s website.

READ MORE →

Upcoming Events

Seminars

- [26 May 2022, at 11:00 AM, VBLHEP. “Phenomenological model for description of fission cross sections of heavy nuclei in high energy region” by V. I. Yurevich](#)
- [26 May 2022, at 11:00 AM, DLNP. “Development of the cosmic ray veto system for the COMET experiment” by David Chokheli](#)
- [26 May 2022, at 11:00 AM, BLTP. “The effective potential of gluodynamics in the background of Polyakov loop and colormagnetic field” by Michael Bordag](#)
- [26 May 2022, at 4:00 PM, BLTP. Anniversary seminar to 65th anniversary of FLNR: “Boundaries and structure of atomic nuclei” by Yuri Oganessian](#)
- [26 May 2022, at 4:00 PM, JINR Scientists’ Club. AYSS seminar series: “Heavy ion physics: How experiments are conducted at high energies” by Alexey Aparin](#)
- [27 May 2022, at 11:30 AM, VBLHEP. “Quantum Mechanics and General Relativity. How and why to unify them?” by Ivanhoe Pestov](#)
- [30 May 2022, at 11:00 AM, BLTP, Blokhintsev Conference Hall \(4th](#)

[floor\). BLTP Journal Club](#)

- [31 May 2022](#), at 3:30 PM, FLNR. "Detailed study of the properties of the radioactive decay of nobelium isotopes using alpha, beta, gamma spectroscopy" by Merrey Tezekbaeva
- [1 June 2022](#), at 11:00 AM, BLTP. "Pneumatic transport system REGATA-2 at the IREN facility" by V. V. Lobachev
- [1 June 2022](#), at 3:00 PM, MLIT. Seminar of the participants of the XI Scientific Conference of Young Scientists and Specialists "Alushta-2022"

Dissertation Councils

- [1 June 2022](#), at 3:00 PM, BLTP. Defense of the Candidate's thesis "Numerical studies of nonstationary quantum phenomena in neutron optics" by Maksim A. Zakharov

Culture

- [26 May 2022](#), at 7:00 PM. JINR Universal Public Library. Book club "Summer Reading List": discussing the book "The Catcher in the Rye" by Jerome Salinger
- [26 May 2022](#), at 7:00 PM. JINR Cultural Centre "Mir". Concert of Vadim Eilenkrig's Orchestra
- [2 June 2022](#), at 7:00 PM. JINR Cultural Centre "Mir". Concert of laureates of international competitions
- [2 June 2022](#), at 7:00 PM. JINR Universal Public Library. Meeting of the book club "Hairpin": discussing the book "James Miranda Barry" by Patricia Duncker

For Kids

- [28 May 2022](#), at 4:00 PM. JINR Cultural Centre "Mir". Reporting concert of dance theatre
- [28 May 2022](#), at 5:00 PM and 6:00 PM. Family book gatherings "Let's READers" and "Little owls"
- [1 June 2022](#), at 5:00 PM. JINR Cultural Centre "Mir". To the Children's Day "Especially beloved"
- [On 1 – 3 June 2022](#), Lyceum named after V. G. Kadyshevsky. Days of Physics – 2022

ALL JINR EVENTS →

© Joint Institute for Nuclear Research

Joliot-Curie str 6, Dubna, Moscow region, Russia, 141980

press@jinr.int

