

SCIENCE BRINGS NATIONS TOGETHER



JOINT INSTITUTE FOR NUCLEAR RESEARCH

## JINR Newsletter #29, 13 October 2022

*Dear colleagues and friends,*

*The Institute is steadily expanding its partner network in the JINR Member States. In Vladivostok, the cooperation agreement was signed with the Government of Primorsky Krai of Russia and a new JINR Information Centre was opened. In Uzbekistan, the first computer cluster was launched and became the part of the MICC JINR, agreements were signed with three leading universities of the country.*

*On 14 October, the Institute celebrates the birthday of Academician Alexey Sissakian (1944-2010). Apart from being the JINR Director (2006-2010) and a visionary science organizer, he was the initiator of the flagship project NICA.*

*Mid-autumn is a cool time. To stay healthy, the Joint Institute offers employees to get vaccinated against influenza and COVID.*

*On Saturday, you can visit the JINR Cinema Club or one of Blokhinka events. And if you don't want to go outside, then you can spend Saturday evening watching a new TNT TV show in which a young JINR scientist took part. More details in the latest issue of the JINR Newsletter.*

**JINR Press Office**



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## Vladivostok: Far East Came Closer

### **JINR, FEFU, FEB RAS, and Primorsky Krai Government signed cooperation agreement**

The quadripartite agreement signed on 10 October in the Primorsky Krai Government provides for staff training and development of nuclear physics research in the region, i.e. the opening of new departments at FEFU and training of specialists for the Russian Photon Source synchrotron under construction.



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#### **JINR Infocentre opened in Vladivostok**

On 11 October, the Information Centre of the Joint Institute for Nuclear Research was opened at the Far Eastern Federal University on Russky Island. This will bring students, postgraduates, and young professionals new opportunities to get acquainted with the unique scientific infrastructure and research capabilities of the Institute.

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#### **JINR as participant of Youth Forum in Vladivostok**

On October 11-13, the JINR delegation worked at the 2nd Far Eastern Forum of Young Scientists and Innovators "Vostok. Nauka". Institute's representatives delivered lectures at Forum meetings, took part in round tables, and also organized a workshop on virtual laboratory work in physics for students and an interactive exhibition presenting the history and modern scientific projects of JINR.

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## **Meetings in Uzbekistan**

#### **JINR signed agreements with universities of Uzbekistan**

The agreements are aimed at training staff and conducting joint research on nuclear energy and medicine, ecology, nuclear and nanotechnologies, electronics, computer technologies. The documents were signed during the visit of the delegation of the Joint Institute to the Republic of Uzbekistan on 4 – 8 October.



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#### **JINR computer cluster opened at INP of Uzbekistan**

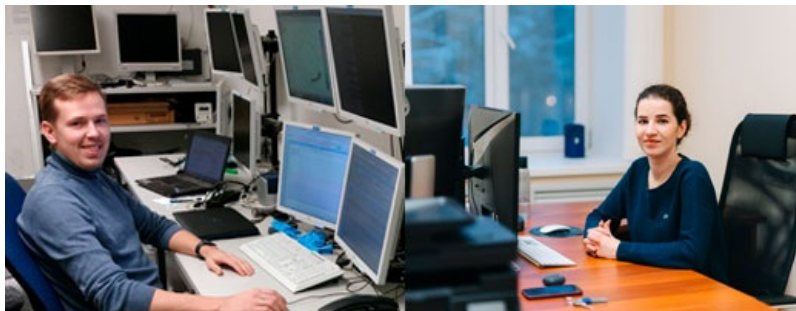
On 8 October, a cloud computer cluster was launched at the Institute of Nuclear Physics of the Academy of Sciences of Uzbekistan with the help of JINR. The cluster will allow performing complex calculations even faster and provide high-precision results for scientific research. Now scientists of INP of the Academy of Sciences of the Republic of Uzbekistan can request cluster capacities for scientific research and participate in calculations for such JINR megascience projects as NICA and Baikal-GVD.

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## **Awards**

## JINR young staff members – winners of Governor's Award

We congratulate a junior researcher Alexander Kolesnikov and a researcher Liudmila Kolupaeva on winning the competition for the Moscow Region Governor's Award in the fields of science, technology, engineering, and innovation for young scientists and specialists in 2022!



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## Conferences

### Conference and Workshop in Saint Petersburg

On 10-14 October, the VII International Conference “Models in Quantum Field Theory” (MQFT-2022) is taking place. Participants are discussing applications of QFT methods to the elementary particle physics and statistical physics, gravitation and cosmology, mathematical problems, and integrable models. This year, the Joint Institute is organizing the III International Workshop “Lattice and Functional Techniques for QCD” as a satellite event of MQFT-2022.



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### Conference on neutron investigations of condensed matter

Organized jointly by Dubna University, JINR, and other famous scientific organizations Conference “Tasks and Methods of Neutron Investigations of Condensed Matter” will take place on 21-23 November and become the 2nd. Participants will discuss condensed matter research with the use of neutron scattering, development and modelling of neutron scattering stations, life sciences, and other topics.

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## Research

### New life of EG-5 accelerator

The electrostatic accelerator EG-5 has been operating in the Laboratory of Neutron Physics since 1965. Today, with the help of EG-5, research on neutron nuclear reactions with a solid body, elemental depth profiles of multilayer semiconductor architectures, as well as irradiation of materials are carried out. Head of the EG-5 group Alexander Doroshkevich spoke about the latest results, ongoing and future research, and the facility modernisation.



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## Education

### Science is interesting!

JINR joined the NAUKA 0+ Festival, which was held from 7 to 9 October in Moscow. Festival participants had an opportunity to learn about JINR basic facilities and projects at the Expocentre, the MSU Shuvalov building and Fundamental Library. On 8 October, JINR researchers delivered lectures on the link between physics and arts, radiation inside space crafts, unique protein of tardigrades, and the NICA Accelerator Complex.



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### JINR – SEZ “Dubna” Competition for Best Youth Scientific and Technical Project

JINR together with the Dubna Special Economic Zone (SEZ “Dubna”) invites schoolchildren, students, and young scientists to take part in an Open Competition for the Best Youth Scientific and Technical Project! Topics of projects: complex technical systems, biomedical technologies, information technologies, new materials, nuclear physics and nanotechnologies. Projects can be sent from 17 October to 7 November.

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### Primorsky Krai teachers at JINR School

On 3-7 October 2022, JINR hosted a Scientific school for teachers from Primorsky Krai. Visits to the JINR Basic Facilities exhibition, the Institute's laboratories, the Blokhinka Library, and the University “Dubna” were organized for teachers. One of them shared their expressions on the event.

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## JINR Community

### New AYSS seminar

AYSS invites to a new seminar at the JINR Scientists' Club! Ilhom Rahmonov will



present a report "The Josephson effect: research, applications, and prospects". What is physical basis of the Josephson effect? What are simple examples of methods for studying the electromagnetic properties of Josephson transitions? Ilhom will answer these and other questions in his presentation on 13 October.



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### **Presentations on city research**

On 15 October, at 6:30 PM, the JINR Universal Public Library invites you to visit the project defence of the urban studies workshop of the Summer School educational project. Presentations are about the anthropological research "The Heart of Dubna", the architectural and art history research "The City Speaks. Monumental Art of Dubna", and the architectural research "City's Riverbanks. To the left".

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Please note that there are a lot of interesting activities for children and adults in Blokhinka.

**FIND OUT MORE** ➡

### **JINR Cinema Club**

This Saturday, on 15 October, you can enjoy watching the exciting film "Volver" by a Spanish film director Pedro Almodóvar. All are kindly invited!



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## **Announcements**

### **Vaccination against influenza and COVID-19**

To improve the service quality for the Institute's staff Medical Unit No.9 is organizing the field vaccination against the influenza virus (Sovigripp and Ultrix vaccines are available) and against the COVID-19 virus (Sputnik V vaccine is available). Revaccination against COVID-19 is carried out by the first component of the Sputnik V vaccine.

Please note that the Ministry of Health of Russia has allowed simultaneous vaccination against COVID and influenza. The corresponding changes have been made to the instructions for the medical use of the vaccine "Gam-Covid-Vac" ("Sputnik V"). The interaction of Sputnik V with a vaccine for the prevention

of influenza has been studied in preclinical studies. The absence of a decrease in the immunogenicity of both vaccines with their simultaneous administration has been shown. With simultaneous vaccination against covid and influenza, drugs are injected into different parts of the body, for example, in the left and right shoulder.

The vaccination will be held in health centres at the DLNP and VBLHEP sites on 14 October 2022, at 12:00 PM.

**JINR Operational Headquarters**

## Books

### What to read?

Come and read new books in Blokhinka! There are new fascinating books about Zoshchenko, Gumilev, and Bulgakov's characters.

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### New books in Science and Technology Library of JINR

We offer you a new book exhibition in the Science and Technology Library of JINR.

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## Sports

### National Table Tennis Championship winner

A table tennis coach of the Social Infrastructure Management Office JINR Inna Tikhomirova won 3 medals at the National Championship among veterans held in Tambov on 5-9 October 2022. She became a champion in singles and women's doubles and a silver medalist in mixed doubles.

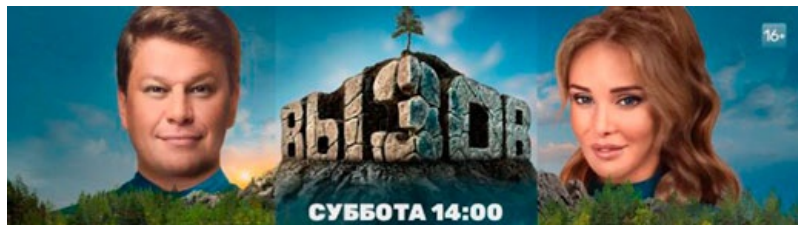


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## Media

### JINR scientist in TNT channel project

A VBLHEP JINR staff member Vladislav Shalaev took part in the Vyzov project on the TNT channel, where people from the world of show business together with young scientists and representatives of the art world compete to win the prize. The premiere will take place on 15 October.



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#### **At opening of Information Centre in Vladivostok**

How was the opening of the JINR Information Centre in Vladivostok? Watch the video to learn more!

**WATCH** →

#### **New computer cluster in Uzbekistan**

News 24 of Uzbekistan has released a video about the opening of a new computer cluster in cooperation with JINR. Find out what opportunities the new computer cluster has created.

**WATCH** →

#### **BM@N – preparation for first experiment**

At the Veksler and Baldin Laboratory of High Energy Physics JINR, the preparations are underway for the first experiment with heavy ion beams at the BM@N facility of the NICA Accelerator Complex. Watch the video to learn more about it!



**WATCH** →

#### **JINR at NAUKA 0+ Science Festival in Moscow**

Watch how the largest educational project in the field of science popularisation – the All-Russian Festival NAUKA 0+ was held with the participation of JINR scientists.

**WATCH** →

#### **JINR Weekly Newspaper issued**

New issue of the JINR Weekly Newspaper #39 has been published. Please note that you can read an English version on the JINR Newspaper's website.

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## **Upcoming Events**

## Conferences

- [10 – 14 October 2022](#), VII International Conference “Models in Quantum Field Theory” dedicated to the 82nd anniversary of professor Alexander Nikolaevich Vasiliev and 80th anniversary of professor Vladimir Dmitrievich Lyakhovsky. St. Petersburg
- [10 – 14 October 2022](#), III International Workshop “Lattice and Functional Techniques for QCD”. St. Petersburg
- [17 – 22 October 2022](#), International Conference “Modern Problems of Condensed Matter Theory”. BLTP JINR, Dubna

## Seminars

- [13 October 2022](#), at 11:00 AM, VBLHEP. “Experimental estimation of the light quark masses in multiparticle production processes” by Ts. Baatar
- [13 October 2022](#), at 4:00 PM, JINR Scientists’ Club. AYSS seminar series: “The Josephson effect: research, applications, and prospects” by Ilhom Rahmonov

## Culture

- [13 October 2022](#), at 7:00 PM. JINR Universal Public Library. Book club “Summer Reading List”: discussing the book “The Pillow Book” by Sei Shōnagon
- [14 October 2022](#), at 7:00 PM. JINR Scientists’ Club. Classical music concert
- [On 14 October – 13 November 2022](#), daily from 3:00 to 7:00 PM (except Monday). JINR Cultural Centre “Mir”. Exhibition “Theatrical View”
- [15 October 2022](#), at 5:00 PM. JINR Cultural Centre “Mir”. Concert of series “Steinway invites”
- [15 October 2022](#), at 6:00 PM. JINR Scientists’ Club. JINR Cinema Club
- [15 October 2022](#), at 6:30 PM. JINR Universal Public Library. Project defence of Summer School educational event
- [16 October 2022](#), at 12:00 PM. JINR Cultural Centre “Mir”. Ballet revue “Four Secrets”
- [20 October 2022](#), at 7:00 PM. JINR Cultural Centre “Mir”. Music Talk. Classical music and talks about it with Sergey Pospelov

## For Kids

- [15 October 2022](#), at 4:30 PM. JINR Universal Public Library. Meetings “Engineering” and “Let’s READers”
- [16 October 2022](#), at 11:00 AM. JINR Museum of History of Science and Technology. Classroom lessons on optics

ALL JINR EVENTS →

