

SCIENCE BRINGS NATIONS TOGETHER



JOINT INSTITUTE FOR NUCLEAR RESEARCH

## JINR Newsletter #32, 3 November 2022

*Dear colleagues and friends,*

*Last week, the Institute celebrated several 65th anniversaries at once. Two of our scientists and the Laboratory of Neutron Physics had jubilees. Another 65th anniversary is ahead. On 10 November, the JINR Weekly Newspaper "Dubna: science, community, progress", a chronicler of the Joint Institute, will celebrate its birthday.*

*We are glad to announce that JINR has been shortlisted for the Loyalty to Science All-Russian Award in two nominations.*

*This time, the JINR Newsletter indicates the end of the working week and the beginning of a long weekend. So we wish you to rest well!*

*Sincerely yours,  
JINR Newsletter*



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## Breaking News

### JINR shortlisted for Loyalty to Science Award

This year, two out of three applications of JINR have been shortlisted for the award "For Loyalty to Science"! Candidates of JINR are Sergei Merts in the nomination "Science is fashionable" and a series of comics "Science in comics: putting complicated things simple", created jointly by DLNP JINR and the Komikadze artel, in the nomination "Biogenetic enlightenment".



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## Celebrating 65

## Laboratory of Neutron Physics JINR

On 28 September, a seminar dedicated to the 65th anniversary of the Frank Laboratory of Neutron Physics took place at the JINR International Conference Centre. Over the years, staff members of the Laboratory witnessed the realisation of many challenging projects, the creation of unique experimental infrastructure, and important scientific discoveries.



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## Arsen Khvedelidze

On 31 October, Arsen Khvedelidze, Head of the Group of Algebraic and Quantum Computations of the Laboratory of Information Technologies JINR, turned 65. Arsen Khvedelidze made a significant contribution to the development of our Institute and international cooperation being a Plenipotentiary Representative of the Government of Georgia in JINR, as well as Chairman of the Finance Committee for a number of years.

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## DLNP Director Vadim Bednyakov

Director of the Dzhelpev Laboratory of Nuclear Problems, Doctor of Physics and Mathematics Vadim Alexandrovich Bednyakov turned 65 on 31 October. Scientific interests of V. A. Bednyakov lie in particle physics, neutrino physics, and astrophysics. In collaboration with colleagues, he developed a new approach to the description of coherent scattering on neutrino, antineutrino, and massive neutral leptons nuclei.

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# Cooperation

## Milestones of JINR delegation's visit to Vietnam

On 28 October, a meeting was held with the Plenipotentiary Representative of the Socialist Republic of Vietnam, which completed a series of working visits of the JINR delegation to universities and scientific organizations of VINATOM and the Vietnam Academy of Sciences and Technology. During the discussion, the parties noted a wide range of areas of joint work, including the expansion of scientific cooperation, the opening of the JINR Information Centre in Vietnam, and much more.



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## JINR Youth

### JINR Youth Grant Competition 2023

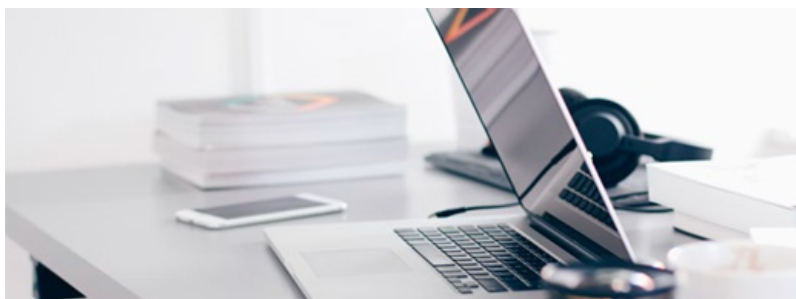
The Association of Young Scientists and Specialists of JINR has announced a Grant Competition for JINR Young Scientists and Specialists 2023. Young employees and specialists of JINR, skilled workers of JINR laboratories and departments under 35 are invited to take part in the Grant Competition.

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## Institute's life

### New digital services of JINR

Head of the Office at the JINR Development of Digital Services Department Alexey Sheiko spoke about the services and the system on which they would operate. Among them, there are services that help with a business trip, a ticket to the JINR Hotel "Dubna", repair requests, employee data, ordering certificates, and seeing menus.



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### Vacation of JINR employees

In October, the JINR United Trade Union Committee summed up the results of the summer season for JINR employees and their family members. Positive feedback on the work of the JINR Hotel "Dubna" and further plans were announced.

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## Research

### Development of ion-selective track membranes for nanosensors and electrodialysis

Scientists from the Laboratory of Nuclear Reactions JINR carried out a cycle of research, which led to the development of methods for obtaining nanoporous objects – ion-selective asymmetric membranes for nanosensors and membranes for electrodialysis. In addition, scientists gained an in-depth understanding of the properties of track membranes with nanometre pores.



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## Conferences

### **JINR co-organizes prestigious MoNeTec-2022 Conference**

On 27 October, JINR scientists spoke at the 4th International Science and Technology Conference Modern Network Technologies MoNeTec-2022, which was held at the Moscow Technical University of Communications and Informatics. The Joint Institute was a co-organizer of the event.

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## Education

### **Russian students will conduct biomonitoring of regions together with JINR**

Students will analyse the environmental situation in their home regions as part of the project "Lessons of the Present" of the Sirius Educational Centre. Scientists of the Laboratory of Neutron Physics JINR will help them with this task.

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### **JINR at MIPT Career Day**

JINR traditionally took part in the annual Career Day of MIPT, where one of the JINR-based departments is located. Students learned about vacancies, internships, and professional development prospects from representatives of leading science-intensive, engineering, and IT companies. JINR representatives told students about master's programmes and combining work in the specialty with studying at the MIPT master's programme.



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### **Lectures by JINR scientists at NArFU**

As part of the NAUKA 0+ Festival, more than 200 events were held at the Northern (Arctic) Federal University, on the basis of which the JINR Information Centre was opened. JINR staff members held lectures: Maria Lalkovicova (LRB)

spoke about what happens to the brain in space and how to protect it, Mikhail Shandov (VBLHEP) gave a talk about charged particle accelerators, Sergei Merts (VBLHEP) talked about the NICA collider.

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## Announcements

### Engineers of the Future

The NICA Vector School for Young Engineers has announced the signing up for Engineers of the Future classes for 10-15-year-old schoolchildren. The classes are free on the certificate. Much attention is paid to drawing and 3D modeling skills at the classes.

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### How to keep balance when the storm is all around

The JINR Universal Public Library will host an open workshop on psychology on 10 November 2022, at 6:30 PM. A psychologist Natalya Mitkevich will conduct an open workshop "How to keep balance when the storm is all around", where you can get practical tools for self-care in crisis situations and help yourself.

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## Books

### Protecting Power of Science

The JINR Publishing Department has released a book "Protecting Power of Science" by Vadim Bednyakov. The collection contains popular science articles by the author, written by him in different periods of his life, both relevant and in order to understand the importance of science in the modern world.



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## Media

### At FLNP anniversary seminar

On 28 October, a seminar dedicated to the 65th anniversary of the Frank Laboratory of Neutron Physics took place at the JINR International Conference Centre. Watch the video to find out the milestones of the event.

**[WATCH video by JINR ➡](#)**

**[WATCH video by TV Dubna ➡](#)**



### Interview with JINR Director Grigory Trubnikov

In a series of interviews “Director” by Kommersant, JINR Director RAS Academician Grigory Trubnikov spoke about the NICA Megascience Project, finding trust between scientists and the state, and how mathematical models helped in the fight against COVID.



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### At seminar dedicated to anniversary of Vladimir Kekelidze

We offer you a video about an international seminar “Study of matter through kaons and baryons” dedicated to the 75th anniversary of JINR Vice-Director, Leader of the NICA Megascience Project Vladimir Kekelidze.

**WATCH** →

### Chronograph. Time’s Witnesses: Vadim Alexandrovich Bednyakov

We kindly invite you to watch an interview with Director of the Dzhelepov Laboratory of Nuclear Problems JINR Vadim Alexandrovich Bednyakov.

**WATCH** →

### Week of Engineering Physics Institute

A week of Engineering Physics Institute was held at Dubna University. Watch in the video report how various thematic events were held in the atrium of the first building.

**WATCH** →

### Record of seminar

We offer you to watch the record of the seminar “Poster and presentation design” from a seminar series “Lifhacks of some use for a scientist”, which took place on 28 October, at 11:00 AM. You can learn about principles and lifhacks of creating posters and presentations, tips on how to make them attractive and easy to read and understand.

**WATCH** →

### JINR Weekly Newspaper issued

New issue of the JINR Weekly Newspaper #42 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

- [7 – 11 November 2022](#), 21st JINR Training Course “JINR Expertise for Member States and Partner Countries. JINR Laboratories, Dubna
- [8 – 10 November 2022](#), 10th Collaboration Meeting of the MPD Experiment at the NICA Facility. VBLHEP JINR (mixed format)

## Seminars

- [3 November 2022](#), at 11:00 AM, DLNP. “Photons of very high energy from the gamma ray burst GRB221009A: Carpet-2 observations, results of other facilities, and possible interpretations” by S. V. Troitsky
- [7 November 2022](#), at 11:00 AM, BLTP, Blokhintsev Conference Hall (4th floor). BLTP Journal Club: “Brightest cosmic explosion reveals possible traces of dark matter!” by Chitta Ranjan Das
- [7 November 2022](#), at 3:00 PM, FLNP. “Chemical and physical studies of model lipid systems with various additives” by Zdravka Slavkova
- [7 November 2022](#), at 4:00 PM, JINR Scientists’ Club. “Development of the structure of W-band resonators” by M. V. Arsentyeva
- [9 November 2022](#), at 11:00 AM, DLNP. “Experimental verification of accurate QCD predictions using  $\pi^+\pi^-$ ,  $K^+\pi^-$ , and  $K^-\pi^+$  atoms” by L. L. Nemenov
- [9 November 2022](#), at 11:00 AM, MLIT. “Simulation of the ocean remote sensing process” by A. A. Sushchenko
- [9 November 2022](#), at 11:00 AM, VBLHEP. “The ways to improve a radiation hardness of detectors used the organic plastic scintillators” by S. V. Afanasiev

## Culture

- [3 November 2022](#), at 7:00 PM. JINR Universal Public Library. Meeting of the book club “Hairpin”: discussing the book “Circe” by Madeline Miller
- [4 November 2022](#), at 6:00 PM. JINR Cultural Centre “Mir”. Concert “The Musical Universe of Eduard Grach”
- [5 November 2022](#), at 3:00 PM. JINR Universal Public Library. Lecture “The Origin of Man”
- [9 November 2022](#), at 6:30 PM. JINR Universal Public Library. Days of Popular-Science Films: film screening in Blokhinka
- [10 November 2022](#), at 6:30 PM. JINR Universal Public Library. Psychological workshop

## For Kids

- [6 November 2022](#), at 12:00 PM. JINR Cultural Centre “Mir”. Children’s musical

ALL JINR EVENTS →