



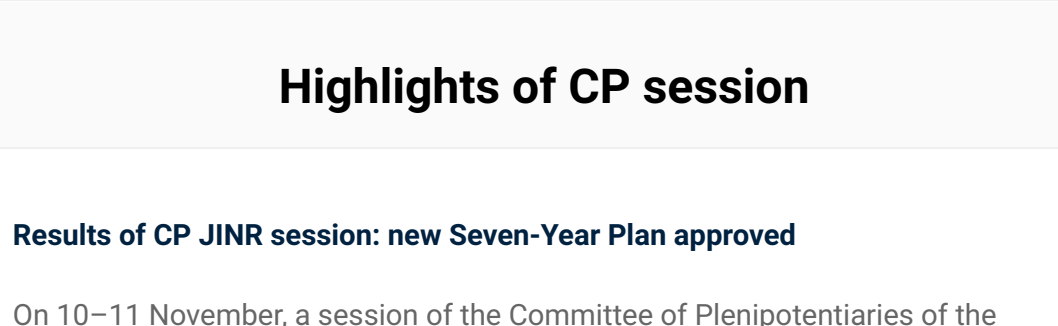
JINR Newsletter #45, 16 November 2023

Dear colleagues and friends,

The key event of the past week was a meeting of the JINR Committee of Plenipotentiaries in Almaty, where the results of a past seven-year period were summed up, and a new route to the scientific future, the Seven-Year Plan for the Development of JINR, was approved. Young JINR scientists received RAS medals for their work in nuclear physics. Scientific projects in which JINR scientists actively participate, JUNO and Daya Bay, continue to develop.

An interview with an outstanding scientist Yuri Oganessian, educational and social events, videos of seminars and lectures, a podcast - you will find all this and much more in the new issue of the JINR Newsletter!

JINR Press Office



Highlights of CP session

Results of CP JINR session: new Seven-Year Plan approved

On 10–11 November, a session of the Committee of Plenipotentiaries of the Governments of the JINR Member States took place in Almaty, the Republic of Kazakhstan. Participants considered the results of the JINR Finance Committee and the JINR Scientific Council. The Seven-Year Plan for the Development of JINR in 2024–2030 and the JINR Topical Plan were presented to the participants as well.



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Cooperation

Agreement signed between JINR youth organizations and National Academy of Sciences of Belarus

On 15 November, a cooperation agreement was signed between the AYSS JINR and the Council of Young Scientists of the National Academy of Sciences of Belarus. The agreement is designed to stimulate cooperation between young scientists of JINR and the National Academy of Sciences of Belarus in order to achieve high scientific results and popularize science.

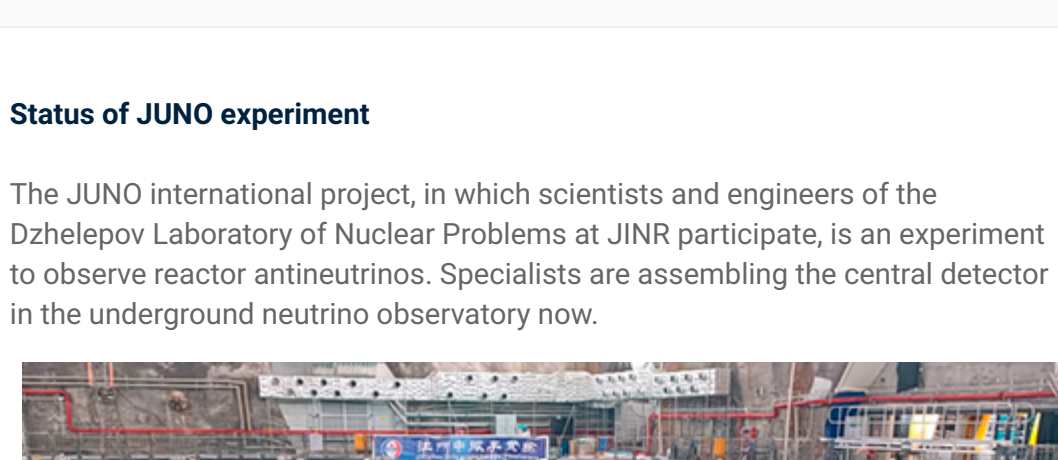


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Awards

Young JINR scientists awarded RAS medals

Liudmila Kolupaeva (DLNP) and Elizaveta Bushmina (VBLHEP) have received RAS medals for their work on nuclear physics following the results of the 2022 competition. The award ceremony took place at a meeting of the Presidium of the Russian Academy of Sciences on 14 November.



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JINR scientist honoured with diploma for best report

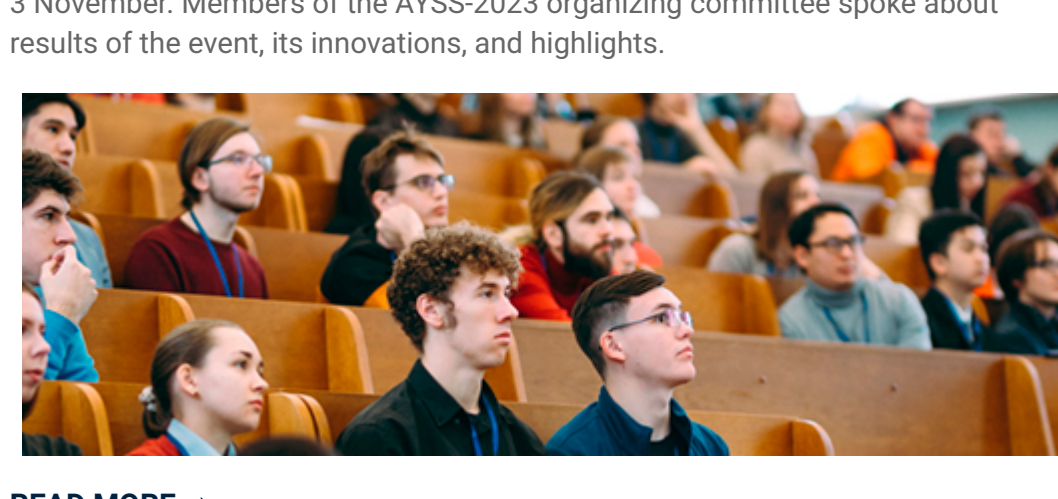
The 8th International Scientific Conference of Young Scientists "Isotopes: technologies, materials, and applications", organized by Tomsk Polytechnic University, was held in Tomsk on 7–9 November. A DLNP laboratory assistant Temirlan Khussainov received a diploma for the report "Search for double beta decay of Zr-96 isotope to excited states of Mo-96 isotope".

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Research

Status of JUNO experiment

The JUNO international project, in which scientists and engineers of the Dzhelapov Laboratory of Nuclear Problems at JINR participate, is an experiment to observe reactor antineutrinos. Specialists are assembling the central detector in the underground neutrino observatory now.



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Status of Daya Bay experiment

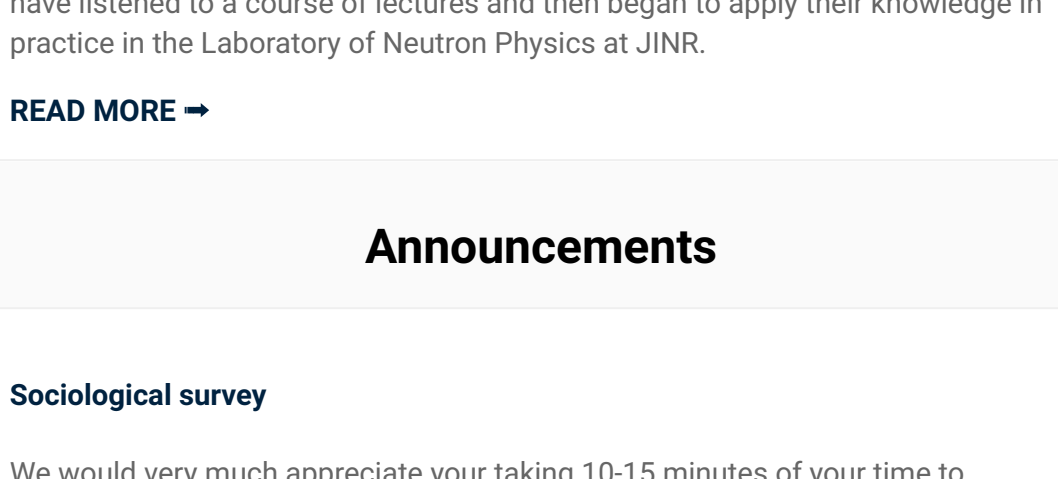
Currently, the collaboration is working on finishing research on the complete data set, which is scheduled to be published by the Neutrino 2024 conference in June next year. JINR employees are actively engaged in the preparation of the code analysis.

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Conferences

AYSS-2023 Conference: new formats and record results

The 27th International Conference of Young Scientists and Specialists finished on 3 November. Members of the AYSS-2023 organizing committee spoke about results of the event, its innovations, and highlights.

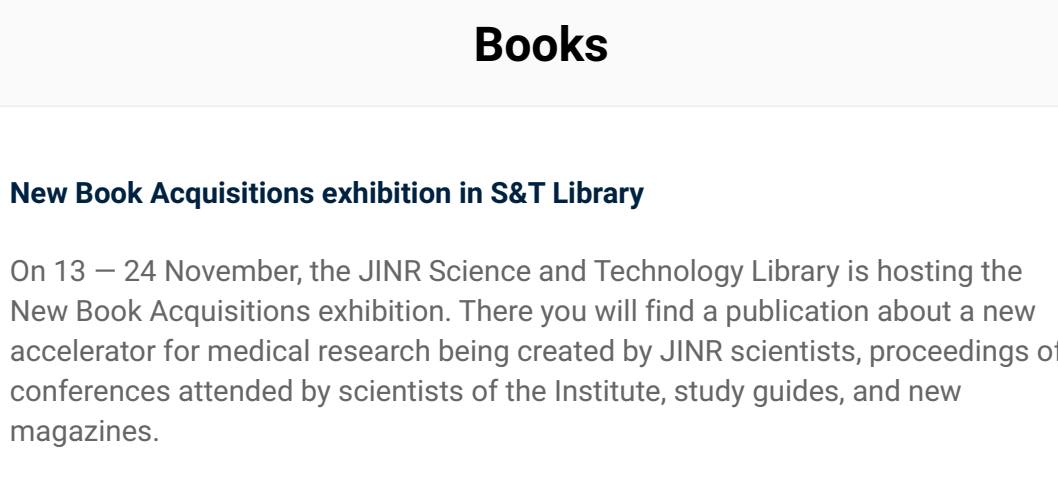


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Education

Physics teachers at JINR

On 31 October, a group of participants of the *Path to the Stars* scientific school, 12 physics teachers of Moscow schools, visited JINR. The participants visited the exhibition "JINR Basic Facilities", went on an excursion to the MLIT Multifunctional Information and Computing Complex, and listened to lectures.



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Dubna University students master advanced technologies in neutron physics

Students of the Engineering Physics Institute of Dubna University are taking a practical course "Automation of experiments in neutron physics". The students have listened to a course of lectures and then began to apply their knowledge in practice in the Laboratory of Neutron Physics at JINR.

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Announcements

Sociological survey

We would very much appreciate your taking 10-15 minutes of your time to complete a sociological survey of social satisfaction of JINR employees. Such surveys are a good way to get feedback from employees on a wide range of issues. Please note that the deadline for taking the survey is 1 December!

[TAKE A SURVEY IN RUSSIAN →](#)

[TAKE A SURVEY IN ENGLISH →](#)

Applications for Ilya Frank and Fedor Shapiro scholarships are open

JINR invites young scientists under the age of 35 to participate in the competition for Ilya Frank and Fedor Shapiro scholarships for 2024. You can apply until 30 November.

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Books

New Book Acquisitions exhibition in S&T Library

On 13 – 24 November, the JINR Science and Technology Library is hosting the New Book Acquisitions exhibition. There you will find a publication about a new accelerator for medical research being created by JINR scientists, proceedings of conferences attended by scientists of the Institute, study guides, and new magazines.

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Sports

Victory of JINR employees in swimming competitions

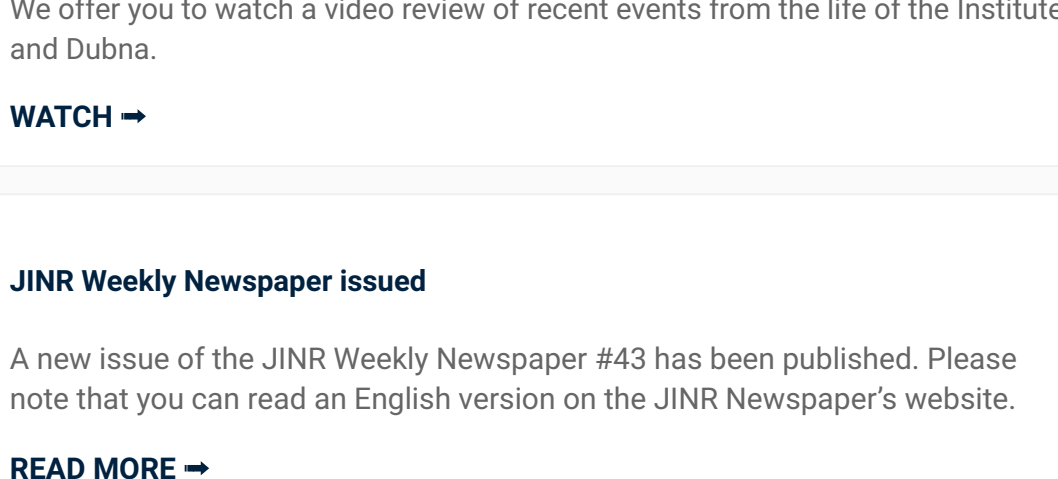
JINR employees have taken part in the anniversary 30th Russian Swimming Cup. In the 100-metre backstroke, a VBLHEP JINR employee Elina Kasyanova won the bronze medal. Maria Alkina won two gold medals in the 200-metre backstroke and the 100-metre butterfly, as well as a bronze medal in the 100-metre breaststroke.

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Media

Yuri Oganessian in new programme of National Centre for Physics and Mathematics

FLNR Scientific Leader Yuri Oganessian has taken part in the first episode of the *With Friends* programme of the National Centre for Physics and Mathematics (NCPM). He told NCPM Scientific Leader Alexander Sergeev about his path to science, the discovery of the chemical elements of the periodic table, new problems of nuclear physics.



[WATCH →](#)

JINR scientists in New Discoveries project

In the *Science Cities* episode, hosts Nansi & Sidorov presented a story about Dubna and the Joint Institute. A VBLHEP JINR researcher Sergei Merts spoke about ways to look into the very depth of matter and study its properties using the NICA Accelerator Complex. A DLNP JINR researcher Viktoriya Dik spoke about her work within the Baikal-GVD Project.

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JINR staff member in new podcast

A VBLHEP JINR researcher Vasilisa Lenivenko has taken part in the Creative Science Lab podcast, *In the World of Scientists*. Vasilisa spoke about the work of a physicist as part of the NICA Megascience Project, the experience gained during her work at the famous Large Hadron Collider at CERN, and life in Dubna science city.

[LISTEN →](#)

New programme with JINR scientist

The 360° News TV channel has aired an episode of the *Vector of Development* programme with an LRB JINR junior researcher Regina Kozhina. In the interview, Regina spoke about research at the Laboratory of Radiational Biology and her scientific interests, and shared information about the ways for young scientists to receive support from the state.

[WATCH →](#)

Record of lecture about NICA Megascience Project

10 November marks the World Science Day for Peace and Development! To celebrate this, a lecture series was held in Zaryadye Park. A VBLHEP JINR staff member Sergei Merts gave a lecture "NICA Megascience Project, or why you need a collider". We would like to invite you to watch a record of the lecture.

[WATCH \(starting from 4:25:02\) →](#)

DLNP seminar record

We invite you to watch a record of a DLNP seminar "Flash algorithms in particle physics" by Mihai Dima.

[WATCH →](#)

Video about past week JINR events

We offer you to watch a video review of recent events from the life of the Institute and Dubna.

[WATCH →](#)

JINR Weekly Newspaper issued

A new issue of the JINR Weekly Newspaper #43 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

- **16 – 20 November. Autumn School on Physics of Quark-Gluon Matter, JINR University Centre, Dubna**

Seminars

- **17 November, 11:00 AM, DLNP. "Corporate ethics of scientific organization: trend, illusion, reality" by Irek Suleymanov**
- **17 November, 11:30 AM, VBLHEP. "SPD detector solenoid magnetic calculations" by Evgeny Antokhin**
- **17 November, 1:30 PM, BLTP. "One-loop divergences in four dimensions supersymmetric sigma model in N=2 harmonic superspace" by Alexandra Burdikhina**
- **20 November, 10:00 PM, VBLHEP. Lecture series on training of accelerator complex operators. Orbit correction in Booster and Nuclotron**
- **20 November, 11:00 AM, BLTP. Journal Club. "Algebraic solutions of linear differential equations: an arithmetic approach" by Maxim Bezuglov**
- **20 November, 3:00 PM. Meeting of FLNP Dissertation Council. "Development and construction of wide-aperture neutron detectors based on the ⁶LiF/ZnS(Ag) scintillator for time-of-flight spectrometers" by Maxim Podlesnyy**
- **21 November, 11:30 AM, BLTP. "Nonseparable Schrodinger equation in discrete variable representation" by Sara Shadmehri**
- **21 November, 3:00 PM, MLIT. "Interacting spinor and electromagnetic fields in cosmology" by Bijan Saha**
- **22 November, 3:00 PM, MLIT. "Laboratory of Analytical Research (INP BSU), yesterday, today, tomorrow" by Svetlana Sytova**

Culture

- **16 October – 1 December, daily from 2:00 PM to 7:00 PM (except Saturday and Sunday). JINR Scientists' Club. "Artist paints Dubna" exhibition**
- **10 November – 10 December, daily from 1:00 to 7:00 PM (except Monday). JINR Cultural Centre "Mir". Exhibition of young artists of Dubna**
- **16 November, 7:00 PM, JINR Scientists' Club. Classical music concert**
- **16 November, 7:00 PM, JINR Cultural Centre "Mir". Third Wheel performance**
- **16 November, 7:00 PM, JINR Universal Public Library. Hairpin book club**
- **17 November, 6:00 PM, JINR Universal Public Library. English speaking club**
- **17 November, 6:00 PM, JINR Universal Public Library. Scrapbooking club's meeting**
- **17 November, 6:00 PM, JINR Scientists' Club. JINR Cinema Club**
- **17 November, 6:00 PM, JINR Universal Public Library. Book gatherings for teenagers**
- **18 November, 6:00 PM, JINR Universal Public Library. Public talk "Parenthood as a profession"**
- **18 November, 5:00 PM, JINR Universal Public Library. Literary game**
- **19 November, 8:00 PM, JINR Cultural Centre "Mir". Stand up at Cultural Centre "Mir"**

For Kids

- **18 November, 4:00 PM, JINR Universal Public Library. Children's research project "Archimedes Pear"**
- **18 November, 5:00 PM, JINR Universal Public Library. Let's READers**
- **19 November, 5:00 PM, JINR Cultural Centre "Mir". Children's performance**

Sports

- **20 – 25 December. JINR Universal Public Library. JINR Stadium "Nauka"**

[ALL JINR EVENTS →](#)