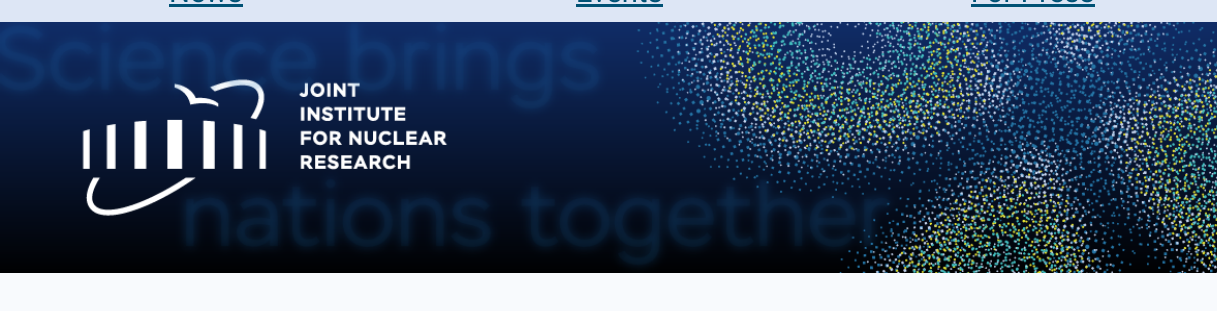




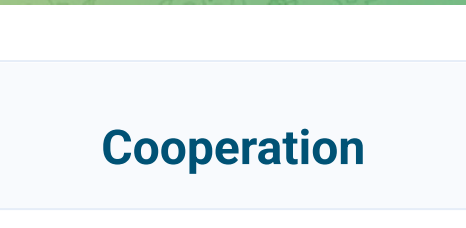
JINR Newsletter #39, 15 October 2025

Dear colleagues and friends,

In Dubna, a delegation from the Institute of Plasma Physics of the Chinese Academy of Sciences, headed by Director-General Song Yuntao, met with the JINR Directorate and explored the Institute's research infrastructure. During the meetings, Chinese representatives got acquainted with JINR's achievements as a world-leading centre in various areas of science.

The 15th Collaboration Meeting of the Baryonic Matter at Nuclotron (BM@N) Experiment is taking place at JINR from 14 to 16 October. More than 130 specialists are discussing latest cutting-edge research results of the collaboration and laying out further plans.

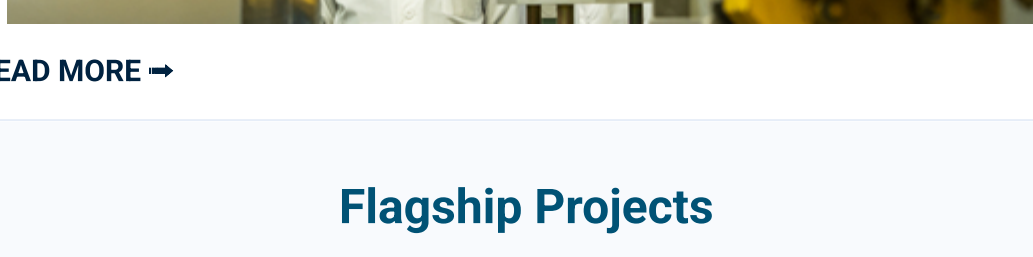
JINR employees from three laboratories, including young specialists from Vietnam, recently took part in the 16th Vietnam Conference on Nuclear Science and Technology. Read about this and much more in the latest JINR Newsletter.



Cooperation

Visit of delegation of Institute of Plasma Physics of Chinese Academy of Sciences

The delegation, headed by Director-General Song Yuntao, visited JINR on 7–8 October. The representatives of the Chinese research centre got acquainted with the Institute's infrastructure and discussed the development of scientific and technical cooperation with colleagues from Dubna.



[READ MORE →](#)

Flagship Projects

BM@N Experiment discussed at VBLHEP at JINR

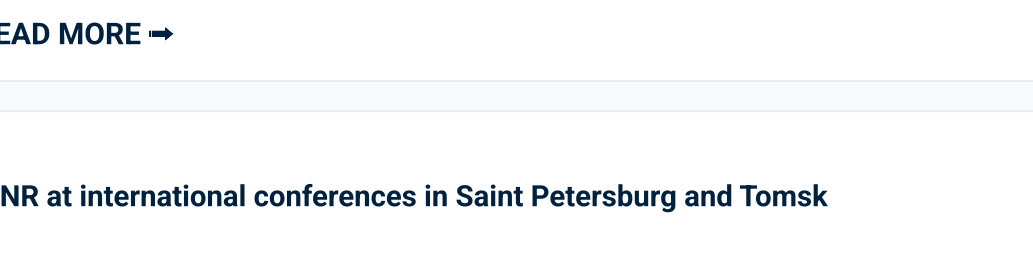
The 15th Collaboration Meeting of the Baryonic Matter at Nuclotron Experiment at the NICA Accelerator Complex is taking place in a hybrid format from 14 to 16 October. The event gathered more than 130 specialists discussing the latest research results of the collaboration and its development prospects.

[READ MORE →](#)

Conferences

JINR at VINANST international conference in Vietnam

The 16th Vietnam Conference on Nuclear Science and Technology organized by VINATOM took place in Da Nang. The Institute's representatives from three laboratories, including young JINR specialists from Vietnam, attended the event.



[READ MORE →](#)

JINR at international conferences in Saint Petersburg and Tomsk

In September, the Institute's employees participated in two international scientific conferences. Representatives of the Fundamental & Applied Linear Accelerator Physics Collaboration from the Laboratory of Nuclear Problems and the Laboratory of High Energy Physics made presentations on JINR's scientific infrastructure and the latest research results.

[READ MORE →](#)

Books

Presentation of book dedicated to Fedor Shapiro took place at FLNP at JINR

The event honoured Professor Shapiro's scientific legacy and his role in discovering ultracold neutrons, featuring talks by colleagues that reflect on his life, principles, and enduring impact on neutron physics.



[READ MORE →](#)

On FLAP Collaboration's participation at RREPS-25 International Symposium

The 15th international symposium entitled "Radiation from relativistic electrons in periodic structures" took place in Shanghai from 15 to 19 September. JINR employees, specialists in fundamental and applied physics of linear accelerators from the FLAP Collaboration, took an active part in the conference.

[READ MORE →](#)

Research

JINR continues work on new neutron detector

Employees from FLNP, DLNP, and VBLHEP at JINR got a new patent for a position-sensitive detector of thermal and cold neutrons. The device will help create a wide range of tools used in the study of condensed matter and for other applied and fundamental research.

[READ MORE →](#)

Publications

Review of Particles and Nuclei, Letters journal, #5 2025

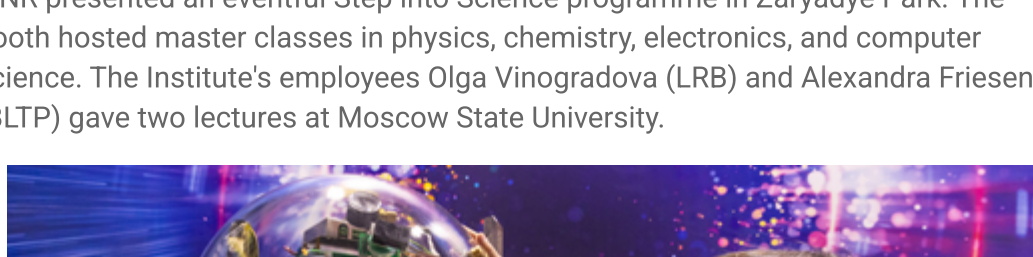
The JINR Publishing Department has issued the fifth part of this year's volume of the "Physics of Elementary Particles and Atomic Nuclei, Letters" journal that includes articles with the results of theoretical, experimental, scientific and technical, methodical, and applied research.

[READ MORE →](#)

Announcements

Research at IBR-2 Reactor – deadline for proposal submission extended

The Laboratory of Neutron Physics at JINR continues to invite applications for research to be conducted in the first half of 2026, with 13 instruments available for users. Proposals can be submitted until 19 October.



[READ MORE →](#)

Registration for conference on neutron research in condensed matter starts

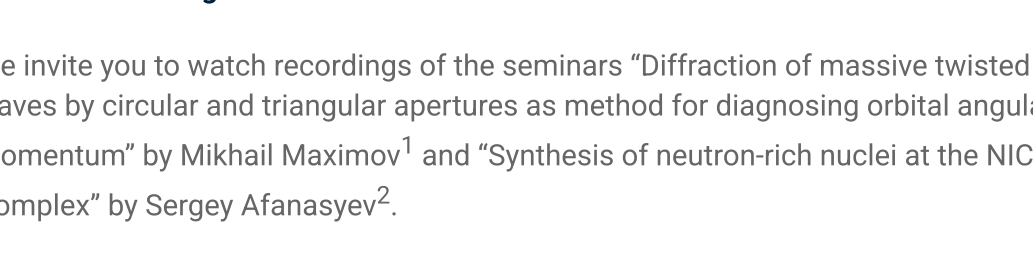
The event, organized with JINR's participation, will take place on 24–27 November at Dubna State University. The conference topics include the development and modelling of neutron scattering stations, neutron radiation detectors, detector electronics, neutron experiment techniques, life sciences, and much more. Applications are accepted [via the link](#) until 3 November.

[READ MORE →](#)

Media

JINR at anniversary NAUKA 0+ Festival

JINR presented an eventful Step into Science programme in Zaryadye Park. The booth hosted master classes in physics, chemistry, electronics, and computer science. The Institute's employees Olga Vinogradova (LRB) and Alexandra Friesen (BLTP) gave two lectures at Moscow State University.



[READ MORE →](#)

Centenary of quantum mechanics

Originating from the 1925 works of Heisenberg, Pauli, Born, and Schrödinger, this theory changed the humanity's understanding of the world. It redefined matter and energy, giving an opportunity for the creation of completely new devices: transistors, lasers, semiconductors, tomographs, accelerators, quantum computers, and more.

[READ MORE →](#)

A day in JINR history

The JINR Telegram channel shared a new archival photo of the Institute. Take a look at scientists who discovered double π -meson charge exchange at DLNP at JINR. The photo was taken by Yuri Tumanov 55 years ago, on 15 October 1970.

[READ MORE →](#)

Seminar recordings

We invite you to watch recordings of the seminars "Diffraction of massive twisted waves by circular and triangular apertures as method for diagnosing orbital angular momentum" by Mikhail Maximov¹ and "Synthesis of neutron-rich nuclei at the NICA Complex" by Sergey Afanasyev².

[WATCH¹ →](#)

[WATCH² →](#)

Weekly JINR Newspaper issued

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

[READ MORE →](#)

Upcoming Events

Collaboration Meetings

- [14–16 October, 15th Collaboration Meeting of the BM@N Experiment at the NICA Facility, JINR, Dubna](#)
- [20–23 October, 10th SPD Collaboration Meeting, JINR, Dubna](#)

Conferences

- [11 October – 23 November, Qualifying competition for 10th Dubna Technical Hackathon 2026, JINR UC, Dubna](#)
- [20–24 October, "Current problems in radiobiology. Accelerated charged particles and neutrons in radiobiology" international conference, JINR, Dubna](#)
- [20–24 October, Symmetries-2025 international workshop, Yerevan, Armenia](#)

Training

- [13–17 October, Scientific student internship entitled "Management in scientific projects, participation of students in research", JINR, Dubna](#)

Seminars

- [16 October, 11:00 AM, DLNP, "Interaction of optical radiation with biological objects: learning from nature to help it" by Dmitry Gorin](#)
- [16 October, 3:30 PM, FLNR, "Investigation of fusion-fission and quasifission processes in heavy-ion induced reactions: Experimental prospects in India and FLNR" by Rupinderjit Kaur](#)
- [17 October, 11:00 AM, DLNP, "A new tool in accelerator physics: LINAC with twisted electron beams" by Dmitry Karlovets](#)
- [17 October, 11:30 AM, VBLHEP, "Studies of photon-photon and photon-hadron interactions at the LHC" by Evgeny Kryshen](#)

Culture

- [16 October – 9 November, Daily from 1:00 to 7:00 PM \(except Monday\), JINR Mir Cultural Centre, Watercolor and graphics exhibition](#)
- [16 October, 6:00 PM, JINR Universal Public Library, English speaking club](#)
- [16 October, 7:00 PM, JINR Universal Public Library, Hairpin book club](#)
- [17 October, 6:00 PM, JINR Universal Public Library, JINR Cinema Club](#)
- [17 October, 7:00 PM, JINR Scientists' Club, Classical music concert](#)
- [18 October, 7:00 PM, JINR Mir Cultural Centre, Masterpieces of Russian Classics concert](#)
- [20 October, 7:00 PM, JINR Mir Cultural Centre, Comedy performance](#)
- [21 October, 12:00 PM, JINR Scientists' Club, JINR Film Union](#)
- [21 October, 7:00 PM, JINR Universal Public Library, Genealogical club's meeting](#)

[ALL JINR EVENTS →](#)