



JINR Newsletter #41, 29 October 2025

Dear colleagues and friends,

The recent meeting of the Joint Coordination Committee of JINR and the Ministry of Science and Technology of China highlighted Dubna's role as a town of international science. The Committee members approved new projects, laid out plans related to cooperation, and discussed engagement in the work at each others' megascience facilities.

One of the most authoritative scientific journals, *Nature*, published an article on the first data analysis on neutrino oscillation measurements by two large experiments, NOvA and T2K. The findings were more precise than measurements from either experiment individually. Employees of the Laboratory of Nuclear Problems made a significant contribution to the study.

Read about the start of the 29th International Scientific Conference of Young Scientists and Specialists, the second episode of the JINR podcast, a school for teachers by the University Centre, and much more in the latest JINR Newsletter.



Cooperation

Third meeting of Joint Coordination Committee of JINR and Ministry of Science and Technology of China

Topping the meeting's agenda were joint fundamental studies, composition of the Expert Working Group, and collaboration in megascience projects. In addition, the Chinese representatives toured the Institute's infrastructure.



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Research

Nature published results of first NOvA–T2K data analysis on neutrino oscillation measurements

For the first time in neutrino physics, two large experiments conducted a comprehensive joint data analysis. The findings were more precise than measurements from either detector individually. DLNP JINR employees made a significant contribution to the study and its publication in one of the world's most authoritative scientific journals.

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Software module for detecting electrical breakdown in HF links registered

The author of the program is a research intern at the Laboratory of Nuclear Reactions Alexandr Vybornov. The software is intended for accelerators, resonant high-frequency links, and coaxial resonators. Its key features are reliability and minimal delay.

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Media

Student from South Africa in JINR podcast

In the studio, a research intern at the Laboratory of Nuclear Reactions at JINR, Thembi Vilane, spoke about her research and life in Dubna. Subtitles in Russian and English are available in the video.



[WATCH →](#)

JINR employees received Moscow Region Governor's Prize

Elizaveta Bushmina (VBLHEP) and Nikita Yushin (FLNP) received the prize for their endeavours in science, technology, engineering, and innovation. Congratulations to our colleagues!

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School for teachers at JINR

From 27 to 31 October, 40 participants from Rostov and Arkhangelsk Regions are visiting the Institute to learn about the advanced methods of teaching physics. The programme includes lectures, practical classes, visits to Kadyshchevsky Lyceum and Dubna University, and much more.

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Article about Ilya Frank by JINR Archive

23 October marked an anniversary of the birth of a distinguished researcher, Nobel laureate, the FLNP founder and first director Ilya Frank. The JINR Historical Archive posted the scientist's biography featuring personal documents.

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AYSS-2025 started

The eventful first day of the 29th International Scientific Conference of Young Scientists and Specialists included talks by the JINR Director and the BLTP Director, various scientific presentations in five sections, and a poster session. JINR employees are welcome to join the conference at MLIT and BLTP.



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Popular science lecture by JINR researcher

In his Telescope Under Ice online lecture, DLNP Deputy Director Dmitry Naumov discussed Baikal-GVD, the largest neutrino telescope in the Northern Hemisphere, located in the depths of Lake Baikal. The talk is intended for a general audience.

[WATCH on VK →](#)

[WATCH in YouTube →](#)

Video about JINR at NAUKA 0+ festival

The JINR University Centre shared the results of the Institute's participation in the festival, including an eventful Step into Science programme, master classes, and two lectures at Moscow State University. The post features a video about the event.

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MLIT archival photos

The Telegram channel of the Laboratory of Information Technologies at JINR posted archival pictures taken throughout the years in October, capturing laboratory's employees and facilities.

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Art exhibition by DLNP designer

Until 9 November, an exhibition of watercolour and graphics works by Marina Meshchenko is taking place at the JINR Mir Cultural Centre. In addition to the newspaper article, you can find pictures of the opening in the [DLNP Telegram channel](#).



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Seminar recordings

We invite you to watch recordings of the seminars "53rd International Symposium on Multiparticle Dynamics. Overview of presentations"¹ by Elena Kokoulina and "Modification and characterisation of plates using electron beams, proton beams, and positrons for the creation of electromagnetic field quantum sensors"² by Marat Yeseev.

[WATCH¹ →](#)

[WATCH² →](#)

Weekly JINR Newspaper issued

A new issue of the Weekly JINR Newspaper, #41, has been published. Please note that you can read an English version on the JINR Newspaper's website.

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Upcoming Events

Meetings

- [28–30 October, 16th Collaboration Meeting of the MPD Experiment at the NICA Facility, JINR, Dubna](#)

Conferences

- [27–30 October, Neutron Physics and Radiation Materials conference \(NPRM 2025\), Yerevan, Armenia](#)
- [27–31 October, 29th International Scientific Conference of Young Scientists and Specialists \(AYSS-2025\), JINR, Dubna](#)

Training

- [27–31 October, Scientific and methodological school for physics teachers, JINR, Dubna](#)

Seminars

- [30 October, 11:00 AM, DLNP, "Machine learning for event reconstruction in liquid noble gas particle detectors" by Aidar Ilyasov](#)
- [30 October, 11:30 AM, VBLHEP, Dissertation Council, "Development and creation of detector system for study of ultra-weak optical radiation" by Nikita Dunin](#)
- [31 October, 11:30 AM, VBLHEP, "Exclusive processes and General Parton Distributions" by Sergey Goloskokov](#)
- [31 October, 3:00 PM, FLNP, "Interpolymer complexes with hydrogen bonds" by Yulia Gorshkova](#)
- [5 November, 11:00 AM, DLNP, "Search for the diffuse supernova neutrino background and hep neutrinos from the Sun in the Borexino Experiment" by Georgy Raikov](#)
- [5 November, 11:00 AM, MLIT, "Development of the ML/DL/HPC Ecosystem of the Hybrid IT Heterogeneous Platform" by Maxim Zuev](#)
- [5 November, 3:00 PM, MLIT, "Modernisation of the position-sensitive detector's data converter for the YUMO Spectrometer" by Alexey Solovyy](#)

Culture

- [16 October – 9 November, Daily from 1:00 to 7:00 PM \(except Monday\), JINR Mir Cultural Centre, Watercolour and graphics exhibition](#)
- [1–29 November, JINR Universal Public Library, Watercolour and graphics exhibition](#)
- [30 October, 6:00 PM, JINR Universal Public Library, English speaking club](#)
- [30 October, 7:00 PM, JINR Universal Public Library, Hairpin book club](#)
- [31 October, 6:30 PM, JINR Universal Public Library, Lecture on astrophysics](#)
- [31 October, 8:00 PM, JINR Universal Public Library, Dark Matter Day, guest](#)
- [4 November, 6:00 PM, JINR Mir Cultural Centre, Musical show](#)

[ALL JINR EVENTS →](#)