

## JINR Newsletter #42, 12 November 2025

Dear colleagues and friends,

*The Institute has welcomed two delegations recently, upholding its motto "Science brings nations together". South African colleagues visited Dubna to discuss the issues of strengthening cooperation, while representatives of the Embassy of Japan in Russia got acquainted with JINR's research programme as part of developing steps to extend the partnership.*

*A series of collaboration meetings aimed at reviewing the NICA Project's progress has concluded at the Laboratory of High Energy Physics at JINR. This time, the scientists focused on the readiness of the Multi-Purpose Detector and plans for new fundamental studies.*

*In the latest issue of the JINR Newsletter you will find articles on the AYSS-2025 conference and school for physics teachers organized by the University Centre as well as recordings of popular science lectures by leading JINR researchers, and much more.*



## Cooperation

## Cooperation between JINR and South African scientific centres discussed

On 31 October, a delegation from the Republic of South Africa visited JINR. The purpose of the trip was to develop the partnership and get acquainted with the Institute's research infrastructure.



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## Visit of delegation from Embassy of Japan in Russia

Representatives of the Embassy of Japan in the Russian Federation, headed by Ambassador Extraordinary and Plenipotentiary Akira Muto, visited JINR. The delegates toured the laboratories and met with the Directorate to discuss prospects for cooperation development between the parties.

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## Flagship Projects

## MPD Project discussed at VBLHEP

The 16th Collaboration Meeting of the MPD Experiment at NICA took place in a hybrid format at JINR from 28 to 30 October. Scientists focused on the readiness of the Multi-Purpose Detector and the NICA Accelerator Complex, along with the plans for new fundamental research.



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## Conferences

## Results of AYSS conference summarised

From 27 to 31 October, the 29th International Conference of Young Scientists and Specialists took place at MLIT and BLTP at JINR. More than 160 participants from six countries joined the event this year.



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## Research

## New program for collecting and processing scintillation detector data registered

The software is designed for automated collection and processing of electrical signals received from the Petroc2A application-specific integrated circuit from scintillation detectors using silicon photomultipliers.

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## Education

## JINR hosted school for teachers from Arkhangelsk, Rostov, and Tomsk Regions

A scientific school for 38 physics teachers, organized by the JINR University Centre, took place in Dubna from 27 to 31 October. The course's programme featured lectures by leading JINR scientists, tours to the research facilities of the Institute, and practical exercises.



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## Qualifying competitions in robotics among schoolchildren took place in Dubna

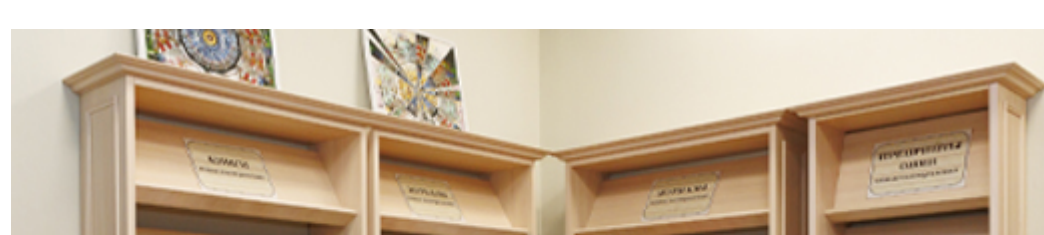
In anticipation of the 10th Dubna-2026 hackathon and the 15th CyberDubna tournament, JINR University Centre held competitions in robotics for school students. Such events are aimed at identifying and supporting students who are interested in engineering and technical activities.

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## Books

## New Book Acquisitions exhibition at S&amp;T Library

From 5 to 28 November, the JINR Science and Technology Library is hosting the New Book Acquisitions exhibition. Readers can find textbooks, monographs, anthologies, and popular science literature.



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## Announcements

## Applications for Meshcheryakov and Govorun scholarships invited

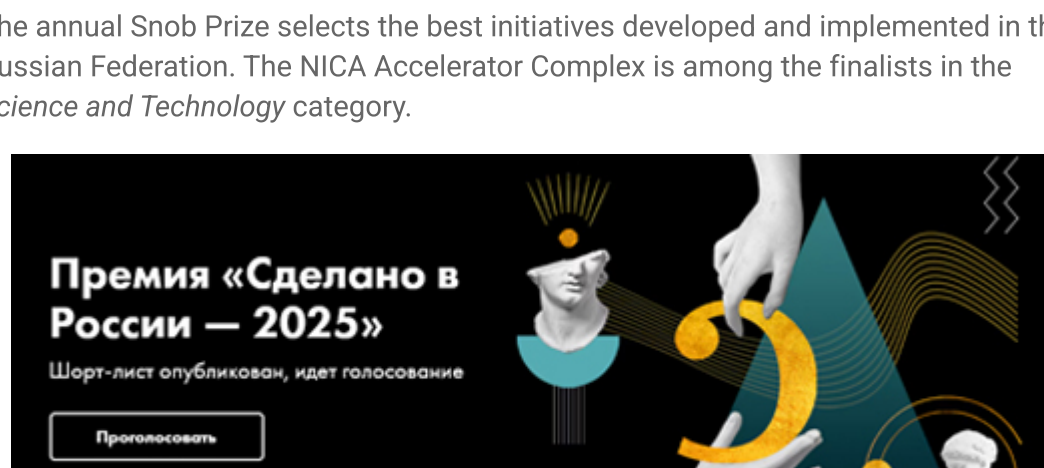
Young MLIT employees under 36 are invited to participate in the competition. From 25 to 27 November (preliminarily), the seminars will take place for current grantees to deliver their reports and competition participants to present their applications.

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## Media

## NICA shortlisted for "Made in Russia – 2025" Prize

The annual Snob Prize selects the best initiatives developed and implemented in the Russian Federation. The NICA Accelerator Complex is among the finalists in the *Science and Technology* category.



[VOTE →](#)

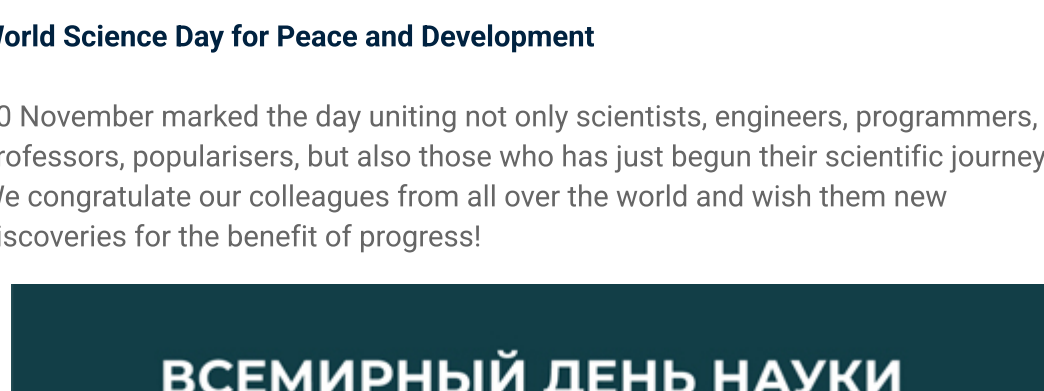
## JINR Director's talk at "Knowledge.Science" marathon

Grigory Trubnikov delivered a lecture entitled "The NICA Collider: how global science in Russia explores the beginning of time and creates technologies of the future". In case you missed the broadcast, you are welcome to watch the recording.

[WATCH →](#)

## World Science Day for Peace and Development

10 November marked the day uniting not only scientists, engineers, programmers, professors, popularisers, but also those who have just begun their scientific journey. We congratulate our colleagues from all over the world and wish them new discoveries for the benefit of progress!



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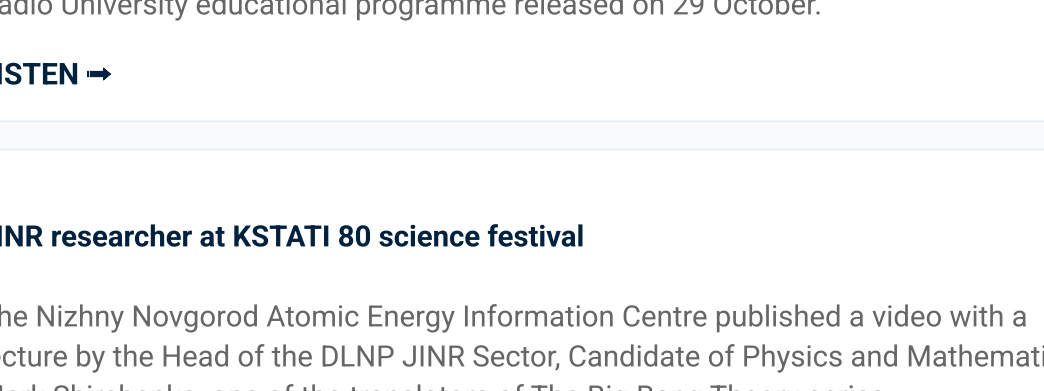
## Radio show featuring JINR scientist

A DLNP researcher Vladislav Rozhkov guested on the episode of the daily Russian Radio University educational programme released on 29 October.

[LISTEN →](#)

## JINR researcher at KSTATI 80 science festival

The Nizhny Novgorod Atomic Energy Information Centre published a video with a lecture by the Head of the DLNP JINR Sector, Candidate of Physics and Mathematics Mark Shirchenko, one of the translators of The Big Bang Theory series.



[WATCH →](#)

## November wallpapers for your devices

Our new wallpaper features a Seymchan pallasite, the meteorite which fell in the Magadan Region in 1967. The comic strip is dedicated to the Russian natural scientist Mikhail Lomonosov, the interests of which covered almost all areas of scientific knowledge, including astronomy.

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## Seminar recordings

We invite you to watch recordings of the seminars "Machine learning for event reconstruction in liquid noble gas particle detectors" by Aidar Ilyasov<sup>1</sup>, "Exclusive processes and General Parton Distributions" by Sergey Goloskokov<sup>2</sup>, and "Search for the diffuse supernova neutrino background and hep neutrinos from the Sun in the Borexino Experiment" by Georgy Raikov<sup>3</sup>.

[WATCH<sup>1</sup> →](#)

[WATCH<sup>2</sup> →](#)

[WATCH<sup>3</sup> →](#)

## Weekly JINR Newspaper issued

New issues of the Weekly JINR Newspaper, #43, have been published. Please note that you can read an English version on the JINR Newspaper's website.

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## Upcoming Events

## Conferences

- **16–30 November**. [Joint JINR-Vietnam seminar on accelerator technology](#). Novosibirsk, Russia

## Seminars

- **13 November**. 4:00 PM. BLTP. "Spin oscillations of neutrinos scattered by the supermassive black hole" by [Mridupawan Deka](#) and [Maxim Dvornikov](#)
- **14 November**. 11:30 AM. VBLHEP. "Study of femtosopic correlations in the ALICE Experiment at the LHC" by [Elena Rogochaya](#)
- **17 November**. 3:00 PM. FLNP. "Measurement of spin-wave stiffness in helimagnets by small-angle neutron scattering" by [Kirill Pshenichnyi](#)
- **17 November**. 3:30 PM. BLTP. "The nuclear fusion reactions in astrophysics and the reaction rates within the extended quantum diffusion approach" by [Azam Rahmatinejad](#)
- **17 November**. 4:30 PM. JINR Scientists' Club. "Multiple ion extraction from the KRION-6T electron string source" by [Dmitry Rassadov](#)

## Culture

- **11 November – 7 December**. Daily from 1:00 to 7:00 PM (except Monday). [JINR Mir Cultural Centre](#). Exhibition of graphics and painting works
- **13 November**. 7:00 PM. JINR Universal Public Library. [Hairpin book club](#)
- **14 November**. 6:00 PM. JINR Universal Public Library. [JINR Cinema Club](#)
- **15 November**. 3:00 PM. JINR Universal Public Library. [Summer on Taymyr lecture](#)
- **15 November**. 3:00 PM. JINR Mir Cultural Centre. [The opening of the exhibition of graphics and painting works](#)
- **15 November**. 6:00 PM. JINR Mir Cultural Centre. [Émigrés performance](#)
- **16 November**. Moscow, Russia. [Trip by JINR Scientists' Club](#)
- **18 November**. 7:00 PM. JINR Universal Public Library. [Genealogical club's meeting](#)

## Sports

- **15 November**. 12:00 PM. JINR Sports Complex. [JINR championship in air rifle shooting](#)

[ALL JINR EVENTS →](#)