



JINR Newsletter #43, 19 November 2025

Dear colleagues and friends,

The international team of the Joint Institute for Nuclear Research regrets to announce that on 13 November 2025, JINR Vice-Director, Professor, Doctor of Physics and Mathematics Sergey Dmitriev passed away at the age of 72. A kind memory of Sergey Nikolaevich will forever be kept in our hearts.

The JUNO Collaboration, including employees from four JINR laboratories, presented its first physics results. The detector was confirmed to meet or exceed design parameters, and is therefore ready for cutting-edge studies in neutrino physics.

The National Institute of Science Education and Research hosted the India-JINR Workshop on Particle, Nuclear, Neutrino Physics and Astrophysics. The event focused on discussing ways to develop cooperation between the Institute and India and working towards the common goal of promoting science and technology.

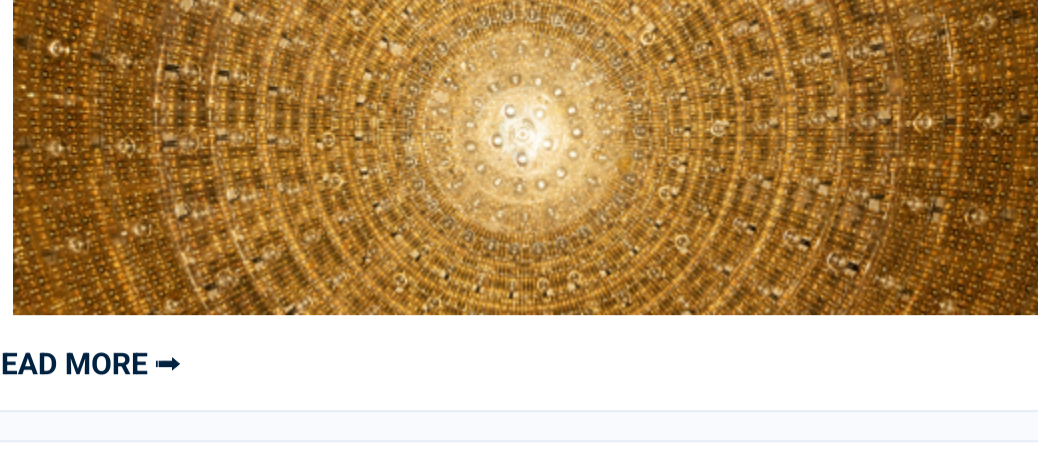
Find out more about the JINR Director's lecture at the 100th seminar of the Association of Young Scientists and Specialists, registration for the NICA 2025 online workshop, and much more in the latest JINR Newsletter.



Cooperation

JUNO Experiment: first physics results obtained

Several months after data collection began, the international JUNO Collaboration, including JINR employees, presented first results in Chinese Physics C. The detector's key parameters meet or exceed design values, confirming its readiness for cutting-edge neutrino physics studies.



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India-JINR workshop took place in Bhubaneswar

On 10–12 November, the National Institute of Science Education and Research in Bhubaneswar hosted the India-JINR Workshop on Particle, Nuclear, Neutrino Physics and Astrophysics with over 200 participants. The event focused on deepening cooperation between JINR and Indian institutes and universities.

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Awards

Young JINR employees honoured with Moscow Region Governor's Prize

The ceremony to award the prize took place on 12 November at the House of Moscow Region Government. Among the fifteen winners were two young JINR scientists: Nikita Yushin (FLNP) and Elizaveta Bushmina (VBLHEP).



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Research

JINR obtained patent for method of measuring lifetimes of excited states of nuclei

The new method, designed by DLNP researchers Vladimir Morozov and Natalia Morozova, implements a 4π-scintillation single-crystal fast and delayed coincidence time spectrometer. It allows improving measurement efficiency and expanding the range of nuclear lifetimes studied.

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Seminars

Grigory Trubnikov discussed global high energy physics experiments at anniversary AYSS seminar

The JINR Director spoke at the 100th seminar of the Association of Young Scientists and Specialists of JINR (AYSS). The lecture detailed the key problems of today's high energy physics and facilities at research centres of the world aiming to solve them, including those of the Joint Institute.



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Tributes

Sergey Dmitriev. Condolences

On 13 November 2025, Corresponding Member of the Russian Academy of Sciences, JINR Vice-Director, Professor, Doctor of Physics and Mathematics Sergey Nikolaevich Dmitriev passed away at the age of 72. The article details his career path and remarkable professional achievements.

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Announcements

Registration starts for 7th NICA 2025 international online workshop

The event organized by JINR and MEFPI will take place on 15–17 December. Researchers will discuss the theoretical and experimental physics of relativistic heavy-ion collisions as well as methods of data modelling and analysis in the MPD and BM@N Experiments at the NICA Facility. Registration is available [via the link](#).



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HybridIT workshop 2025: registration open

The Meshcheryakov Laboratory of Information Technologies at JINR will host the event from 25 to 26 November. The programme includes a detailed overview of the computational capabilities of the Govoron Supercomputer and the development of the HybridIT Heterogeneous Platform. Registration is available [via the link](#).

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MLIT invites applications for youth prizes

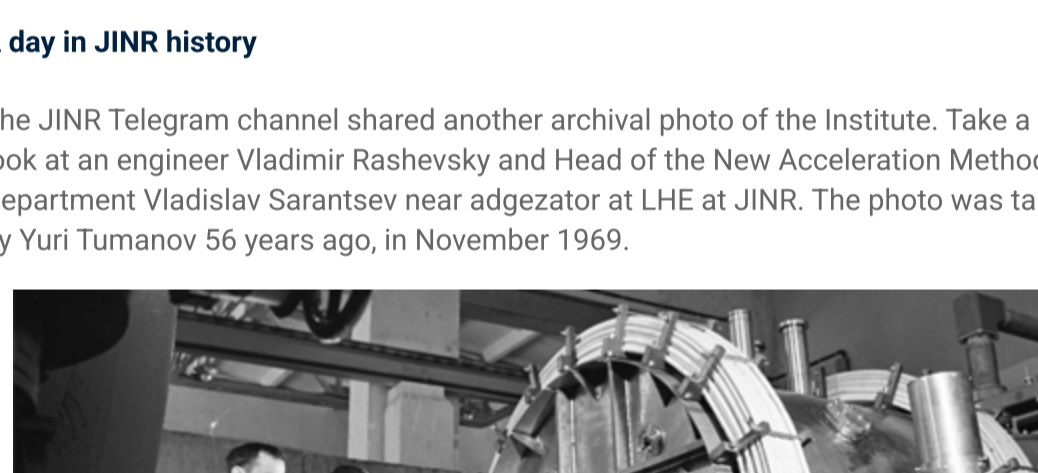
Young scientists and specialists of the laboratory under 36 are welcome to participate in the competition for the 2026 Meshcheryakov and Govoron Prizes. Registration is open until 22 November.

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Media

A day in JINR history

The JINR Telegram channel shared another archival photo of the Institute. Take a look at an engineer Vladimir Rashesvsky and Head of the New Acceleration Methods Department Vladislav Sarantsev near edgerezator at LHE at JINR. The photo was taken by Yuri Tumanov 56 years ago, in November 1969.



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Lecture on Parallel Universes at the JINR Mir Cultural Centre

On 30 November, at 7:00 PM, Alexey Semikhatov – a laboratory head at the Lebedev Physical Institute, one of Russia's most renowned science popularisers, winner of the 2025 OGANESSON prize – will give a talk at the Mir Cultural Centre.

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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 November. The photos feature the laboratory's employees and facilities.



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Seminar recording

We invite you to watch a recording of the seminar "Study of femtosopic correlations in the ALICE Experiment at the LHC" by Elena Rogochaya.

[WATCH →](#)

Weekly JINR Newspaper issued

A new issue of the Weekly JINR Newspaper, #44, has been published. Please note that you can read an English version on the JINR Newspaper's website.

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Sports

JINR achievements in swimming

On 13-16 November, the Russia's Masters Cup for Amateurs aquatics competition took place. Among the winners were JINR employees Irina Migulina (first place in the 50 and 100-metre races) and Svetlana Smirnova (three silver medals in the 100-metre freestyle, 200-metre and 400-metre medley).



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Institute's employee wins all-Russian tennis competition

The Russian Table Tennis Federation Veterans Championship finished in Kstovo, with 600 athletes participating. A JINR Sports Complex instructor Inna Tikhomirova became the overall Russian champion, winning three gold medals.

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Upcoming Events

Conferences & Meetings

- **25 November**, JINR Science and Technology Council meeting, JINR, Dubna
- **25–26 November**, HybridIT Workshop 2025. Towards Efficient Scientific Computing, MLIT, Dubna
- **24–27 November**, 5th all-Russian scientific and practical conference titled "Tasks and methods of neutron research of condensed matter", Dubna State University
- **16–30 November**, Joint JINR-Vietnam seminar on accelerator technology, Novosibirsk, Russia

Seminars

- **20 November**, 11:00 AM, VBLHEP, "The possibility of in vivo determination of the elemental composition of human bones by the method of tagged neutrons for the diagnosis of osteoporosis" by Vadim Aleksakhin
- **20 November**, 11:30 AM, VBLHEP, Dissertation Council, "Low-frequency stabilisation of radiation power for a small-sized precision laser inclinometer" by Yuly Klemechov
- **20 November**, 3:00 PM, BLTP, "Calculations with a trapped-ion quantum computer" by Ilya Zalivako
- **21 November**, 11:00 AM, BLTP, "The problem of the origin of high energy cosmic rays: analysis of anisotropy and composition" by Mikhail Kuznetsov
- **21 November**, 11:30 AM, VBLHEP, "Monte Carlo models in high energy physics" by Aida Galoyan and Vladimir Uzhinsky
- **21 November**, 2:30 PM, BLTP, "Giant dipole resonance and related spin-dependent excitations" by Irina Molodtsova
- **21 November**, 3:30 PM, BLTP, "Comparative DFT study of adsorption of superheavy elements Cn and Fl and their lighter homologs Hg and Pb on Selenium surface" by Sen Djanayan
- **24 November**, 11:00 AM, BLTP, Journal Club, "Joint neutrino oscillation analysis from the T2K and NOvA Experiments & Fermi-LAT galactic centre excess morphology of dark matter in simulations of the Milky Way Galaxy" by Chitta Ranjan Das
- **25 November**, 3:00 PM, BLTP, "Non-topological solitons in effective field theory" by Eduard Kim

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
- **20 November**, 6:00 PM, JINR Universal Public Library, English speaking club
- **20 November**, 6:30 PM, JINR Universal Public Library, Scrapbooking club's meeting
- **20 November**, 7:00 PM, JINR Universal Public Library, Summer Reading List book club
- **21 November**, 7:00 PM, JINR Mir Cultural Centre, Geniuses of Time concert
- **21 November**, 6:00 PM, JINR Universal Public Library, JINR Cinema Club
- **22, 29 November**, From 12:00 PM to 4:00 PM, JINR Universal Public Library, Volunteer recruitment and training
- **22 November**, 3:00 PM, JINR Universal Public Library, Lecture on Arctic Ocean
- **25 November**, 7:00 PM, JINR Mir Cultural Centre, Piano concert

[ALL JINR EVENTS →](#)