

JINR Newsletter #16, 29 April 2026

Dear colleagues and friends,

The Joint Institute recently hosted a conference on the application of neutron technologies in science and industry. The event focusing on advancements in the oil and mining industries served as yet another example of the basic research of today becoming the technology of tomorrow.

Various educational events took place with JINR participation. High-schoolers showcased their projects for the Institute's facilities at the finals of the first All-Russian multisensory design olympiad, teachers of Russia's regions underwent training as part of the Teachers of the Future school, and children enjoyed the popular science Days of Physics festival.

Learn more details about the JINR Gallery opening to general public, a new device for efficient liquids filtration, interviews with the Institute's researchers, and much more in the latest JINR Newsletter.

JINR Press Office



Conferences

JINR hosted conference on neutron technologies in science and industry

On 22–24 April, the conference entitled “Tagged neutron method and neutron technologies: research, development, and application in the oil and mining industries” took place at the International Conference Centre. The Joint Institute was among the event’s organizers.



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Research

FLNR JINR Centre of Applied Physics developed new device for efficient liquid filtration

The centre's employees received a patent for a tangential filtration device. The main feature of the development is the ability to use it several times for various research purposes, including micro, ultra, and diafiltration. The device will find applications in biotechnology, pharmaceuticals, and diagnostics.

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Education

JINR and Central University organized finals of All-Russian Design Olympiad

From 23 to 27 April, the last stage of the first multisensory *dsgn sense* olympiad took place in Dubna. 118 high-schoolers from 59 cities participated in the finals. The event was aimed at the creation of graphics, objects, interfaces, and services using all human senses: sight, hearing, touch, smell, and taste.



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Teachers of Future: JINR UC develops educational programmes in Russian regions

The programme for region’s teachers is organized by JINR in cooperation with Southern Federal University and Northern (Arctic) Federal University. It is expected that the successful experience of the school will be scaled up to other JINR Member States in the future.

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Scientific performance: Days of Physics festival took place in Dubna

The children's popular science event was organized on 18 April at the JINR Mir Cultural Centre. More than 200 children participated in workshops, learned about robotics, and competed in the Intellectual Marathon.

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Media

JINR Gallery opens to general public

Visitors are welcome to tour The ArteFacts of Francisco Infante exhibition presenting works by one of the most famous contemporary artists and a pioneer of kinetic art. Details, schedule, registration, and admission fees are available on the [website](#).



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JINR researchers win 2026 Breakthrough Prize

The ceremony took place in Santa Monica on 18 April. The award in fundamental physics was given to the Muon g-2 Collaboration, including DLNP employees, for measuring the anomalous magnetic moment of the muon.

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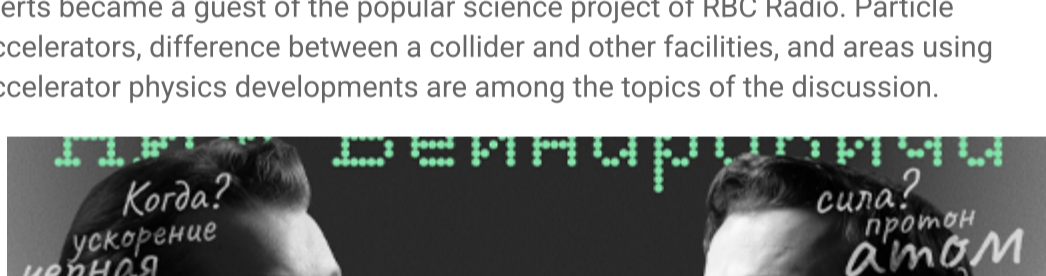
Term of the Week

The JINR Telegram Channel shared another word from the world of science. This week's post, dedicated to the International DNA Day, presents a molecule that stores genetic information.

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JINR scientist in Beinarovich Research Institute podcast

A leading VBLHEP JINR researcher, Candidate of Physics and Mathematics Sergey Merts became a guest of the popular science project of RBC Radio. Particle accelerators, difference between a collider and other facilities, and areas using accelerator physics developments are among the topics of the discussion.



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A day in JINR history

The JINR Telegram channel shared archival photos of the Institute. Take a look at a mechanic Sharif Shamsutdinov inspecting internal scintillation detectors of the target chamber at the Pion Facility at DLNP.

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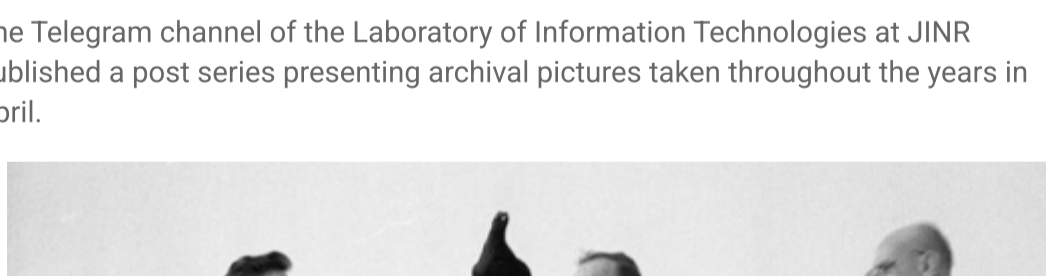
Interview with MLIT employee

JINR Multifunctional Information and Computing Complex Chief Engineer Alexey Vorontsov became the guest of the new episode of the True Engineer podcast. Learn why he chose IT and what makes science a more interesting career than business.

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MLIT archival photos

The Telegram channel of the Laboratory of Information Technologies at JINR published a post series presenting archival pictures taken throughout the years in April.



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Seminar recordings

We invite you to watch recordings of “Magnetism measurements of superconducting magnets of the NICA Collider”¹ by Dmitry Zolotykh, “Direct liquid cooling at facilities of the Russian Federation”² webinar, and “Intrinsic energy resolution of the scintillation signal in liquid argon”³ by Olga Lychagina.

[WATCH¹ →](#)

[WATCH² →](#)

[WATCH³ →](#)

Weekly JINR Newspaper issued

A new issue of the Weekly JINR Newspaper, #18, has been published. Please note that you can read an English version on the JINR Newspaper’s website.

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Upcoming Events

Seminars

- [30 April, 11:00 AM, VBLHEP, “Methods for studying columnar radiation defects and pinning of Abrikosov vortices in HTSC tapes” by Irina Riabokon, “Columnar defects created by heavy ion irradiation as a tool for controlling vortex pinning in HTS tapes to increase current-carrying capacity” by Ekaterina Chernavskaya](#)
- [30 April, 4:00 PM, DLNP, “Cosmic ray research at the Tien Shan high-mountain station of the Lebedev Physical Institute” by Alexander Shchepetov](#)
- [5 May, 3:00 PM, MLIT, “Modelling interaction processes of high-energy heavy ions with metals using a combination of the thermal spike and molecular dynamics methods” by Zafar Tukhliyev](#)

Culture

- [26 March – 1 June, JINR Mir Cultural Centre, The First Star: the Birth of a New Interaction exhibition](#)
- [30 April, 7:00 PM, JINR Universal Public Library, Hairpin book club](#)
- [30 April, 7:00 PM, JINR Mir Cultural Centre, Taganka Theatre concert](#)
- [6 May, 6:00 PM, JINR Universal Public Library, “After the congress: new interaction in Soviet politics” lecture](#)

[ALL JINR EVENTS →](#)