

JINR Newsletter #13, 9 April 2025

Dear colleagues and friends,

The Association of Young Scientists and Specialists of JINR has recently held election of AYSS Council Chair. Congratulations to a junior researcher at the Laboratory of Radiation Biology Regina Kozhina on taking the post!

The Institute's scientists introduced two important inventions. MLIT researchers created a web service that will aid in analysing DNA radiation damage, and an FLNP team obtained a patent for a device that helps increase the density and residence time of neutrons in a confined volume.

This week, Russian and Belarusian students are taking part in an IT school in Dubna; in Tomsk, a JINR delegation discussed cooperation with the region's universities and the issues of promoting education.

Read about eminent scientists' anniversaries, Baksan School on Astroparticle Physics, and much more in the latest JINR Newsletter.



Education

Cooperation in engineering and physics education discussed in Tomsk

On 2–4 April, JINR representatives visited Tomsk (Russia) and took part in regional educational events. Organizational support was provided by the JINR Information Centre at Tomsk Polytechnic University. The delegation took part in discussing the promotion of education in the region and cooperation between JINR and Tomsk universities.



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JINR Spring IT School started at MLIT

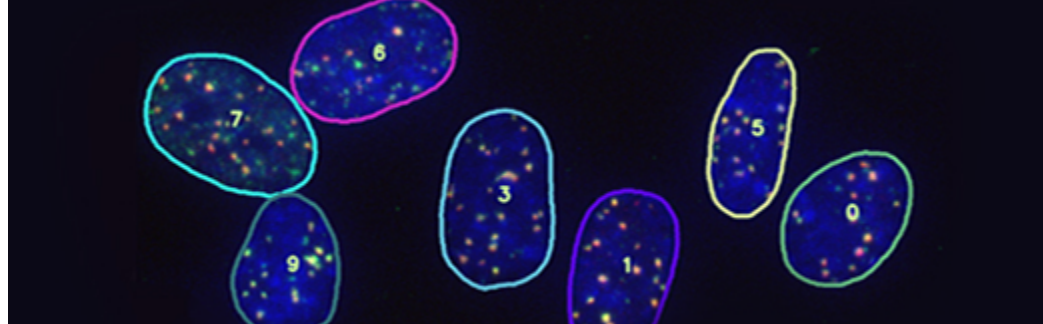
On 9–10 April, MLIT is holding the JINR Spring School on Information Technologies in a hybrid format. During the two days, students from universities of the Russian Federation and the Republic of Belarus are presenting the results of their graduation papers, based on the topics of JINR project activities.

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Research

MLIT JINR creates web service to analyse DNA radiation damage

The researchers are developing the MOSTLIT Web Service, a tool for automating the detection of ionising radiation-induced foci (IRIF) in cell nuclei and subsequent analysis of their parameters. The service is designed to optimise the processing of experimental data obtained during radiobiological studies.



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Method of pulsed neutron injection and neutron trapping in neutron storage ring device developed at JINR

FLNP employees Yuri Nikitenko, Evgeny Kolupaev, and Valery Zhuravlev obtained a patent for a device, which can be used to increase the density and residence time of neutrons in a confined volume.

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Anniversaries

Fyodor Shapiro, creator of scientific programme of Laboratory of Neutron Physics at JINR

The article marks the 110th anniversary of the birth of Fyodor Shapiro (1915-1973), FLNP JINR Deputy Director, detailing the life and scientific interests of the outstanding physicist.



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Nikolay Govorun. Scientific phenomenon

The Laboratory of Information Technologies hosted a seminar dedicated to MLIT Deputy Director Nikolay Govorun. JINR leadership, MLIT employees, his colleagues from other scientific centres, and relatives gathered in the conference hall to commemorate the eminent researcher.

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JINR Youth

2025 AYSS Council Chair election results

On 31 March, the Chair of the Council of the Association of Young Scientists and Specialists of JINR was elected during an AYSS General Meeting. An LRB junior researcher Regina Kozhina will occupy the post. Congratulations!



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Publications

Report on work performed by Trade Union in 2024

The JINR Trade Union shared the results of the last year's work on monitoring compliance with the existing labour laws and representing the interests of the Institute's employees.

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Review of Particles & Nuclei, #2 (Vol. 56) 2025

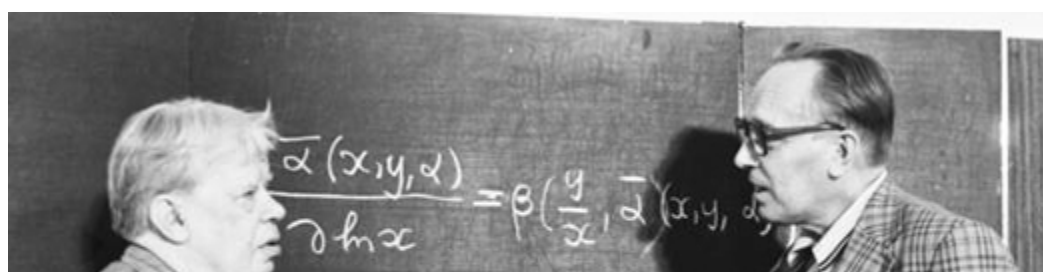
Please enjoy a review of the second part of this year's volume of Physics of Elementary Particles and Atomic Nuclei, a journal that publishes articles with results of the original theoretical, experimental, scientific and technical, methodical, and applied research.

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Media

A day in JINR history

Every week, the JINR Telegram channel shares archival photos of the Institute. We invite you to look at Nikolay Bogoliubov and Dmitry Shirkov discussing scientific results at BLTP at JINR photographed 44 years ago, in April 1981.



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Baksan School on Astroparticle Physics started

From 3 to 11 April, the 17th Particles and Cosmology Baksan International School on Astrophysics is taking place in Kabardino-Balkaria, Russia. The event is dedicated to the modern problems of astrophysics and cosmology, covering both experimental and theoretical aspects.

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Weekly JINR Newspaper issued

A new issue of the Weekly JINR Newspaper #13 has been published. Please note that you can read an English version on the JINR Newspaper's website.

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Upcoming Events

Collaboration Meetings

- [15–17 April. 15th Collaboration Meeting of the MPD Experiment at the NICA Facility. JINR, Dubna](#)

Education

- [4–11 April. 17th Baksan International School on Astroparticle Physics "Particles and Cosmology". Terskol, Kabardino-Balkaria, Russia](#)
- [9–10 April. JINR Spring School on Information Technologies. JINR, Dubna](#)
- [12 April. CyberDubna-2025 robotics tournament. Academician Kadyshcheyev Physics and Mathematics Lyceum, Dubna](#)
- [14–18 April. Training Course "JINR Expertise for Member States and Partner Countries" \(JEMS-26\). JINR, Dubna](#)

Seminars

- [10 April, 11:00 AM. VBLHEP. "Development progress of new micropixel avalanche photodetectors" by Ziraddin Sadygov](#)
- [10 April, 11:30 AM. Meeting of VBLHEP Dissertation Council. "Magneto-optical structures of synchrotrons of the NICA Complex" by Alexandr Philippov](#)
- [10 April, 2:00 PM. BLTP. "Perturbative quantum gravity" by Boris Latosh](#)
- [10 April, 3:00 PM. FLNP. Seminar dedicated to the 100th anniversary of the birth of Fyodor L. Shapiro](#)
- [11 April, 11:00 AM. FLNP. "Numerical calculations of fuel assemblies bending in IBR-2 Reactor" by Aleksandr Verkhoglyadov, Ivan Kushnir](#)
- [11 April, 11:30 AM. VBLHEP. "Study of directed flow in nucleus-nucleus collisions at energies \$E_{kin} = 1.2–4.0\$ A GeV" by Mikhail Mamaev](#)
- [14 April, 3:30 PM. BLTP. "Relativistic generalisation of the Faddeev-Yakubovsky equation and its application to the \$^4\text{He}\$ nucleus" by Sergei Yurev](#)
- [15 April, 11:00 AM. DLNP. "Time readout electronics from proportional narrow-gap drift chambers for determining electron coordinates on operation channels of the LINAC-200 Linear Accelerator" by Vladislav Puntus](#)

Culture

- [21 March – 21 April. Daily from 1:00 to 7:00 PM \(except Monday\). JINR Mir Cultural Centre. JINR scientists' art exhibition](#)
- [1–25 April. Weekdays from 2:00 to 7:00 PM. JINR Scientists' Club. Photo exhibition "About Dubna and more..."](#)
- [10 April, 7:00 PM. JINR Universal Public Library. Music Forever concert](#)
- [10 April, 7:00 PM. JINR Universal Public Library. Summer Reading List book club](#)
- [11 April, 6:00 PM. JINR Universal Public Library. JINR Cinema Club](#)
- [11 April, 6:00 PM. JINR Universal Public Library. English speaking club](#)
- [11 April, 6:30 PM. JINR Universal Public Library. Blokhinka 451 quest](#)
- [11 April, 7:00 PM. JINR Mir Cultural Centre. Dubna Symphony Orchestra concert](#)
- [11 April, 7:00 PM. JINR Scientists' Club. Masterpieces of piano music concert](#)
- [12 April, 6:00 PM. JINR Mir Cultural Centre. Queen of Spades solo performance](#)

For Kids

- [11 April, 4:00 PM. JINR Universal Public Library. Times and Epochs children's history project](#)
- [11 April, 6:30 PM. JINR Universal Public Library. Meeting of book and discussing club for teenagers](#)
- [12 April, 5:00 PM. JINR Universal Public Library. "Let's READers"](#)
- [12 April, 6:30 PM. JINR Universal Public Library. "Fiction from third desk" club meeting](#)
- [13 April, 12:00 PM. JINR Mir Cultural Centre. Children's musical performance](#)

[ALL JINR EVENTS →](#)