

## JINR Newsletter #4, 5 February 2025

Dear colleagues and friends,

Last week, Director of the Institute for System Programming Harutyun Avetisyan came to JINR. As part of his visit, the Academician held a seminar on technologies for creating trusted computer systems, a topic that is important for the Joint Institute for Nuclear Research, and met with the MLIT leadership to discuss cooperation in IT between the two institutes.

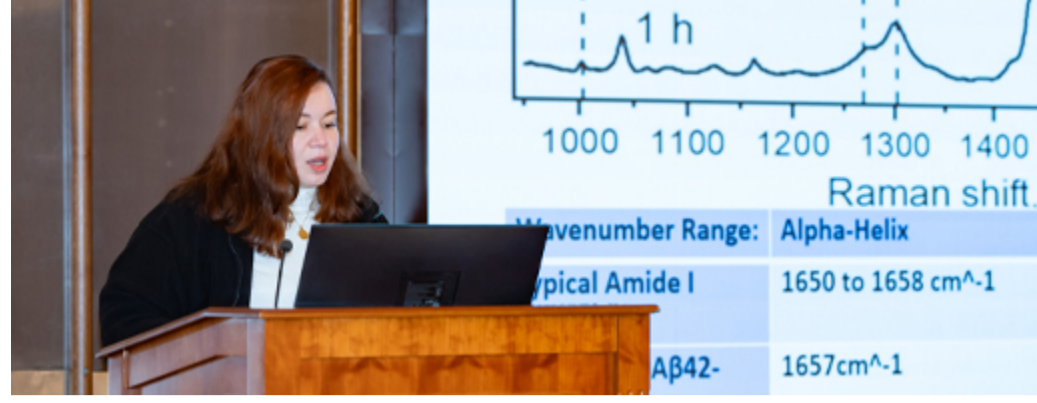
In the new issue of the JINR Newsletter, you will also find information about interesting scientific lectures prior to the Russian Science Day, registration for upcoming schools and conferences, a new website of the Plenipotentiary Representative of the Republic of Kazakhstan at JINR, and much more.



### Advisory Bodies

#### PAC CMP meeting: preparation for IBR-2 launch and spectrometer complex development

On 22 January, a meeting of the Programme Advisory Committee for Condensed Matter Physics took place. The IBR-2 operation resumption was top of the agenda. Other key topics included the development of the reactor's spectrometers and the latest research results in the field.



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### Conferences & Seminars

#### Technologies for creating trusted systems discussed at Joint Institute Seminar

On 30 January, Director of the Ivanikov Institute for System Programming, Academician Harutyun Avetisyan provided a detailed overview of creating trusted computer systems including AI. As part of his visit to Dubna, he also held a meeting with the MLIT leadership to discuss partnership between the two institutes.



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#### MCE-2025 International Conference held with JINR participation

The 32nd "Mathematics, Computing, Education" Conference, co-organized by the Joint Institute, took place from 27 to 31 January. One of the conference's organizers, MLIT Scientific Leader Vladimir Korenkov gave a welcome speech and invited the participants to Dubna, where the next MCE will be held in 2026.

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### Publications

#### Brief review of 2024 JINR scientific results published

The JINR Scientific Information Department published the review of topmost scientific results obtained at the Joint Institute for Nuclear Research in 2024. You can download it [via the link](#).

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### Announcements

#### JINR Summer School for Teachers: registration opened

On 6-12 July, the JINR University Centre will hold the International School for Physics Teachers. The participants will visit the Institute and learn about the latest physics research results. IT, mathematics, and astronomy teachers can apply as well. Registration is available on the [website](#) until 10:00 AM on 20 May.



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#### Grigory Trubnikov to participate in international conference at RUDN University

On 6 February, the Institute's representatives, including the JINR Director, will take part in the international conference entitled "The mission of the modern university in the challenges of transformation in a multipolar world", which will be held at the Patrice Lumumba Peoples' Friendship University of Russia (RUDN) in Moscow.

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#### Lecture on structure of atoms by Yuri Oganesian

On 7 February, at 6:00 AM (Moscow time), an MSU and the NAUKA 0+ project, supported by VK, will hold an online lecture dedicated to the Russian Science Day. The broadcast will take place as part of the Scientists to Schools campaign.

[WATCH →](#)

#### Baksan School on Astroparticle Physics invites applications

The 17th Particles and Cosmology International School, co-organized by JINR, will take place from 3 to 11 April. The programme includes four lectures, seminars, workshops, and a tour of the Baksan Neutrino Observatory. Postdoctoral researchers and qualified postgraduates are welcome to apply until 20 February via the event's [website](#).

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#### Lecture about Dmitry Mendeleev

On 7 February, at 4:30 PM, the JINR International Conference Centre will host a lecture about the world-famous chemist dedicated to the Russian Science Day, organized by the Museum of History of Science and Technology of JINR.

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### Media

#### On resuming IBR-2 Pulsed Reactor operation

Please enjoy a video with FLNP JINR Director Egor Lychagin discussing the large-scale work of scientists and engineers on the reactor and a time frame for achieving the facility's design power level.



[WATCH IN VK →](#)

[WATCH ON YOUTUBE →](#)

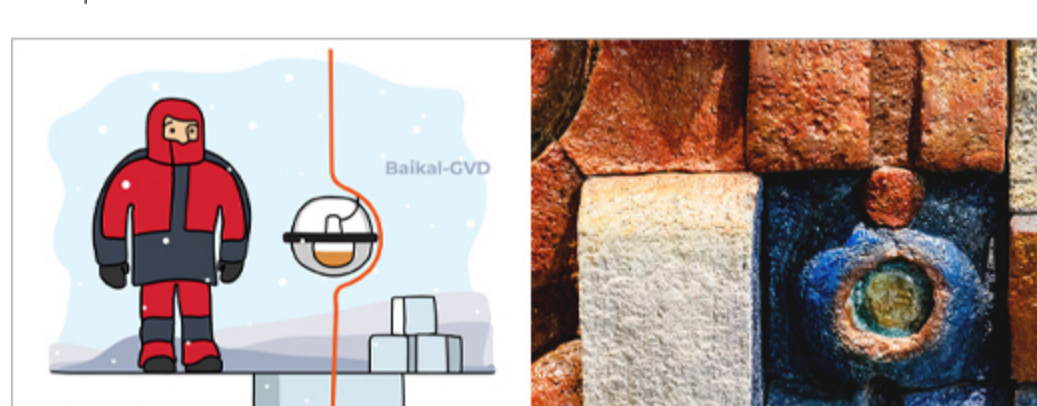
#### Official website of Plenipotentiary Representative of Government of Kazakhstan at JINR launched

Visit the website to learn about the work of the Plenipotentiary Representative and the country's National Group at JINR, news about scientists from Kazakhstan, information on grants, projects, and programmes, along with helpful links and contacts. The latest news are also available in the [National Group's Telegram channel](#).

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#### February wallpapers for your smartphones

The first picture in this month's JINR Telegram wallpapers is about Baikal-GVD: February is when scientists, engineers, and specialists from JINR go on an expedition to build the deep underwater neutrino telescope on Lake Baikal. The second picture is an artwork in the Dubna Hotel.



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#### Seminar recordings

We invite you to watch the recordings of a seminar about the latest research results in (n-p) reactions<sup>1</sup> by Alexander Ierusalimov and Alexander Troyan and a talk "Intrinsic resolution of organic scintillators"<sup>2</sup> by Oleg Smmov.

[WATCH<sup>1</sup> →](#)

[WATCH<sup>2</sup> →](#)

#### Weekly JINR Newspaper issued

A new issue of the Weekly JINR Newspaper #3 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

A VBLHEP JINR employee Irina Migulina won two gold medals in the third Open Tyumen Swimming Cup in the Masters category, which took place on 25–26 January. Congratulations on the successful performance!

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### Upcoming Events

#### Conferences

- **7 – 9 February**, Meeting of the Coordinating Council for Youth Affairs in Scientific and Educational Spheres under the Council for Science and Education under the President of the Russian Federation, JINR, Dubna
- **8 - 23 February**, Teachers of the Future workshop for senior physics and mathematics students, JINR, Dubna
- **10 - 14 February**, Problems of the Modern Mathematical Physics international workshop (PMMP25), BLTP, Dubna

#### Seminars

- **6 February, 11:00 AM, VBLHEP**, "Results of field tests of a mobile soil analyser using the labelled neutron method" by Egor Razinkov
- **6 February, 11:00 AM, VBLHEP**, "Methodology and technology of string application for measurements of magnetic fields of accelerator elements" by Ilya Nikolaichuk
- **6 February, 11:00 AM, DLNP**, "Study of electron luminescence and primary scintillation in the visible range in liquid argon detectors" by Vladislav Oleynikov
- **6 February, 2:00 PM, MLIT**, "Research and development of methods for comparative analysis of supercomputer applications based on data mining techniques" by Denis Shaykhislanov
- **7 February, 11:00 AM, ELNP**, "DARIA Compact Neutron Source in the Russian strategy of neutron research development" by Sergey Gligoriev
- **7 February, 11:30 AM, VBLHEP**, "Role of reaction mechanisms in deuteron-proton elastic scattering at intermediate energies" by Nadezhda Ladygina
- **10 February, 11:00 AM, VBLHEP**, "Where is the 'SHIP' headed or physics tasks at the SHIP Experiment" by Dmitry Gorbunov
- **11 February, 11:00 AM, MLIT**, "Monte-Carlo simulation of the OLIVE-HERO Orbital Experiment" by Ilyas Satyshev, "On computations of characteristics of qudits' nonclassicality" by Astghik Torosyan
- **11 February, 4:00 PM, BLTP**, "Quantum Hall effect in alternating electric field" by Erkin Alpomishev
- **12 February, 3:00 PM, MLIT**, "Component architecture of the software complex for intelligent analysis of scientific and technical data" by Evgey Antonov

#### Culture

- **22 January - 16 February**, Daily from 1:00 to 7:00 PM (except Monday), JINR Mir Cultural Centre, Quiet World of Dubna exhibition
- **3 February - 6 March**, Weekdays from 2:00 to 7:00 PM, JINR Scientists' Club, Commemorative exhibition
- **6 February, 6:00 PM**, JINR Universal Public Library, JINR Cinema Club
- **6 February, 7:00 PM**, JINR Scientists' Club, JINR Film Union
- **6 February, 7:00 PM**, JINR Universal Public Library, Hairpin book club
- **7 February, 4:30 PM**, JINR International Conference Centre, Lecture about Dmitry Mendeleev
- **7 February, 5:00 PM**, JINR Universal Public Library, Mini lectures by JINR scientists dedicated to the Day of Women in Science
- **7 February, 6:00 PM**, JINR Universal Public Library, English speaking club
- **7 February, 6:30 PM**, JINR Universal Public Library, Scrapbooking club's meeting
- **7 February, 7:00 PM**, JINR Scientists' Club, Life and Art of Victor Popkov lecture
- **7 February, 8:00 PM**, JINR Mir Cultural Centre, Stand-up performance
- **8 February, 5:00 PM**, JINR Universal Public Library, Movie quiz
- **8 February, 5:00 PM**, JINR Mir Cultural Centre, Film screening
- **9 February, 5:00 PM**, JINR Mir Cultural Centre, Military band concert

#### For Kids

- **6 February, 5:30 PM**, JINR Universal Public Library, Times and Epochs children's history project
- **8 February, 5:00 PM**, JINR Universal Public Library, "Let's READers"
- **8 February, 7:00 PM**, Museum of History of Science and Technology of JINR, Family intellectual game

[ALL JINR EVENTS →](#)