



JINR Newsletter #3, 29 January 2025

Dear colleagues and friends,

One of the past week's highlights was the visit to Dubna of the Ambassador of the Republic of India to Russia, during which prospects for strengthening cooperation between the Joint Institute and India were discussed.

JINR published the first issue of the new international open-access journal, *Natural Science Review*. Read more about the new periodical in the article on the Institute's website.

In addition, the latest issue of the JINR Newsletter features news about JINR obtaining the IBR-2 Reactor operation licence, JINR projects and research, educational opportunities for students, and much more.



Advisory Bodies

Meeting of PAC for Nuclear Physics: prospects of future experimental research

On 23–24 January, a meeting of the JINR Programme Advisory Committee for Nuclear Physics took place at the JINR International Conference Centre. The PAC members spoke about the latest research results in nuclear physics, the state of JINR's main facilities, and international projects in which Joint Institute employees participate.



[READ MORE →](#)

Meeting of PAC for Particle Physics: discussing NICA's progress and laying out plans

On 22 January, a meeting of the JINR Programme Advisory Committee for Particle Physics took place. The PAC members spoke about JINR's NICA Flagship Project, the proposal for a new project to study neutrino properties in accelerator experiments, research results obtained by JINR teams in the LHC experiments, and much more.

[READ MORE →](#)

Cooperation

Ambassador of Republic of India to Russia visited JINR

On 23 January, Ambassador Vinay Kumar met with Indian JINR employees, visited the NICA Accelerator Complex at the Laboratory of High Energy Physics and enterprises of the Dubna Special Economic Zone. Plans to further strengthen the JINR–India relations were discussed at a meeting with the JINR Directorate.



[READ MORE →](#)

Main Facilities

Licence to launch IBR-2 received

On 24 December 2024, the Joint Institute for Nuclear Research obtained a licence from the Federal Service for Environmental, Technological, and Nuclear Supervision of Russia to launch the IBR-2 Reactor at FLNP. The first operating cycle is set to take place from 17 February to 3 March.



[READ MORE →](#)

Research

JINR developed approach to automating stages of modelling events in high energy physics

The approach was presented by Head of the MLIT Sector of Development and Maintenance of the JINR Digital Ecosystem Sergey Belov as part of his thesis for the degree of Candidate of Technology. The method is already being used in the ATLAS Experiment at CERN.

[READ MORE →](#)

Education

Dubna branch of Moscow State University launches IT Master's course

On 20 January, the JINR-based MSU branch announced the opening of enrolment for a new Master's course entitled "Methods and technologies of data processing in heterogeneous computing environments". Document submission will open in June 2025. Pre-registration for the enrolment is available on the branch's [website](#).

[READ MORE →](#)

Publications

First issue of *Natural Science Review* published

The Joint Institute for Nuclear Research published the first issue of *Natural Science Review*, an international, peer-reviewed, full open-access journal specialising in natural and technical sciences.



[READ MORE →](#)

Books

Review of *Particles & Nuclei*, #1 (Vol. 56) 2025

Please enjoy a review of the first 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.

[READ MORE →](#)

S&T Library exhibition

From 27 January, the Science and Technology Library and its VBLHEP branch are hosting the 2024 JINR Publications exhibition (until 31 January at S&T and 7 February at VBLHEP). Visitors can find works of the Institute's researchers published in 2024, including preprints, periodicals, conference proceedings, JINR monographs.

[READ MORE →](#)

Announcements

2025 START Summer Session: call for applications

The START (STudent Advanced Research Training) Programme invites students and postgraduates to join research conducted at JINR under the supervision of leading scientists and engineers. Applications for the 2025 Summer Session are accepted at start.jinr.ru until 31 March.



[READ MORE →](#)

Joint Institute Seminar on technologies for creating trusted systems

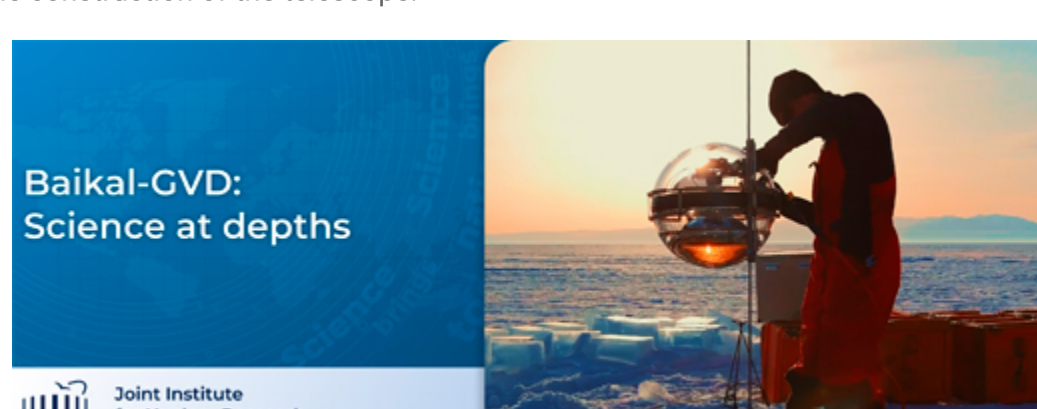
On 30 January, at 4:00 PM, at BLTP, Professor Harutyun Avetisyan, Director of the Ivannikov Institute for System Programming of the Russian Academy of Sciences, RAS Academician, Doctor of Physics and Mathematics, will speak at the seminar entitled "System programming and technologies for creating trusted systems".

[READ MORE →](#)

Media

Baikal-GVD: science at depths

One of the key topics of the 60th meeting of the JINR PAC for Nuclear Physics was the progress of the deep underwater Baikal-GVD Neutrino Telescope. In the video, a senior researcher of the Laboratory of Nuclear Problems Bair Shaibonov discusses the construction of the telescope.



[WATCH in VK →](#)

[WATCH on YouTube →](#)

A day in JINR life

Every week, the JINR Telegram channel shares archival photos of the Institute and the city. We invite you to take a look at Sergey Filin and Alexander Puzynin near the DLNP JINR aerogel production facility, photographed 26 years ago, in January 1999.

[WATCH →](#)

Seminar recordings

We invite you to watch a recording of the seminar entitled "Monte Carlo study of application of lithium glass composite scintillator for thermal neutron detection" by Ilya Zimin.

[WATCH in VK →](#)

[WATCH on YouTube →](#)

JINR Weekly Newspaper issued

A new issue of the Weekly JINR Newspaper #2 has been published. Please note that you can read an English version on the JINR Newspaper's website.

[READ MORE →](#)

Upcoming Events

Seminars

- **30 January 11:00 AM, DLNP** "Intrinsic resolution of organic scintillators" by Oleg Smirnov
- **30 January 12:00 PM** "From Monte Carlo to Mars: radiation inside an interplanetary spacecraft" online lecture by Ivan Gordeev
- **30 January 4:00 PM, BLTP** "System programming and technologies for creating trusted systems (including artificial intelligence)" by Harutyun Avetisyan
- **31 January 11:30 AM, VBLHEP** Joint Laboratory Seminar

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
- **30 January 7:00 PM**, JINR Universal Public Library, Summer Reading List book club
- **30 January 7:00 PM**, JINR Universal Public Library, Musical and literary recital
- **31 January 6:00 PM**, JINR Universal Public Library, JINR Cinema Club
- **31 January 6:00 PM**, JINR Universal Public Library, English speaking club
- **1 February 4:00 PM**, JINR Universal Public Library, Meeting of Dubna tourists club
- **1 February 5:00 PM**, JINR Mir Cultural Centre, Dubna Symphony Orchestra concert

For Kids

- **31 January 5:00 PM**, JINR Universal Public Library, Little Owls children's book club
- **1 February 5:00 PM**, JINR Universal Public Library, "Let's READers"
- **1 February 6:00 PM**, JINR Universal Public Library, "Fiction from third desk" club meeting

[ALL JINR EVENTS →](#)