

JINR Newsletter #5, 9 February 2023

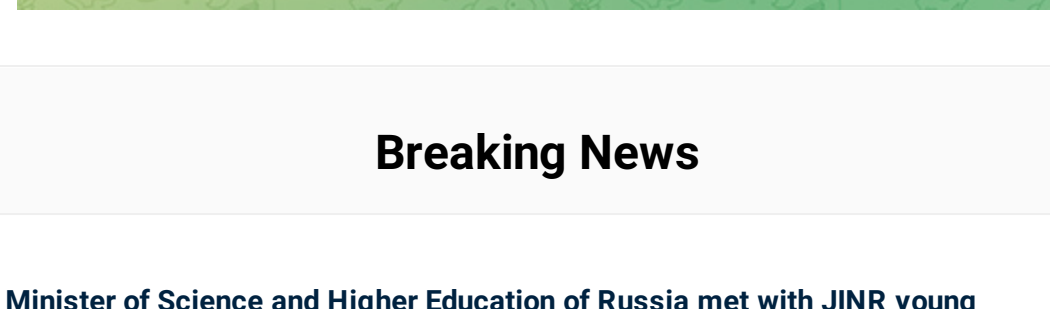
Dear colleagues and friends,

The key scientific event of the week was the end of a commissioning run at the NICA complex, within which the BM@N Experiment collected more than half a billion events.

Yesterday, the Institute took an active part in events of the Day of Science of its location country. Plenipotentiary Representative of Russia at JINR, Minister Valery Falkov had a round table with young JINR scientists, at which he announced a programme for support of young researchers. He also visited the NICA Complex. In addition, legendary Yuri Oganesian delivered a lecture at MSU, a number of coverages of JINR studies were broadcast on TV, a scientific lecture series for school children started, and the JINR Press Office launched a new sticker pack for Telegram depicting JINR scientists.

The scientific holiday will continue this weekend with screening and discussion of a documentary about gravitation at the JINR Cultural Centre "Mir", as well as a science popular lecture about the Standard Model at the Blokhinka Library. Read about all this and find much more in the new issue of the JINR Newsletter!

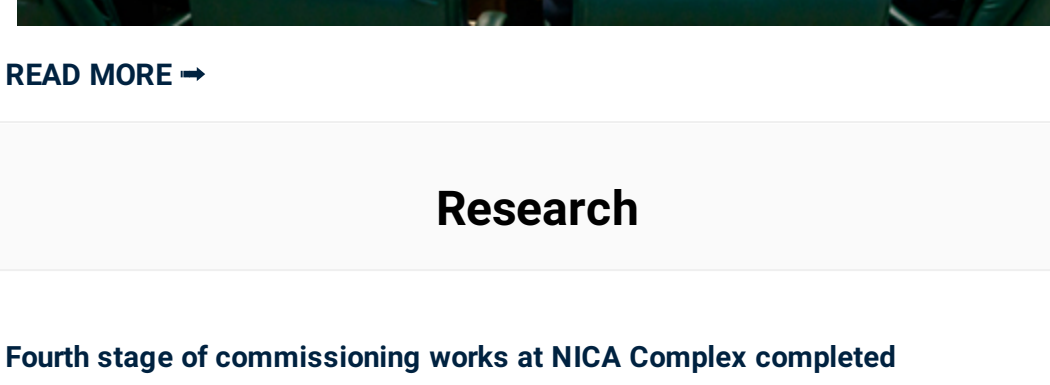
JINR Press Office



Breaking News

Minister of Science and Higher Education of Russia met with JINR young scientists

Minister of Science and Higher Education of Russia Valery Falkov visited JINR, met with young Institute's scientists, and announced launch of a programme for targeted support of young scientists and experienced researchers.

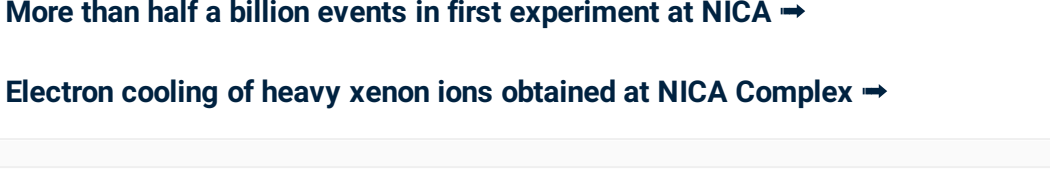


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Research

Fourth stage of commissioning works at NICA Complex completed

The fourth run, the longest in the history of the NICA Accelerator Complex, concluded at VBLHEP JINR. The project's team worked out the modes of joint operation of all the elements of the heavy-ion injection chain of the collider, reached a record for the Nuclotron intensity of a xenon nuclei beam, and collected significant statistics, half a billion events, at the BM@N Facility.



[MILESTONES of fourth stage of commissioning works →](#)

[More than half a billion events in first experiment at NICA →](#)

[Electron cooling of heavy xenon ions obtained at NICA Complex →](#)

JINR invented a new device for decelerating neutrons

The device for producing cold and ultracold neutrons was designed at the Joint Institute for Nuclear Research. The authors of this invention are Sergey Dolya, a DLNP JINR senior researcher, and Yuri Nikitenko, an FLNP JINR leading researcher. The new invention may find application at the future JINR reactor NEPTUN.

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JINR at DUNE Collaboration meeting

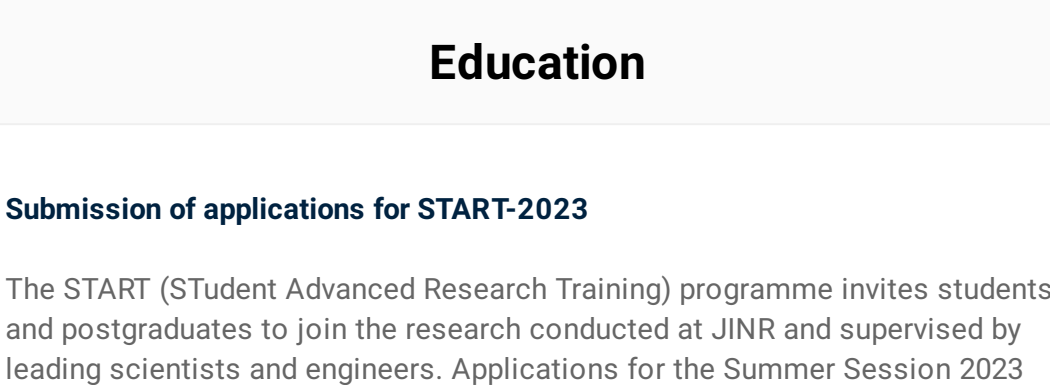
At the end of January a meeting of the DUNE Megascience Project Collaboration was held at CERN. Employees of the Laboratory of Nuclear Problems attended it. Meeting participants discussed the status of the project and various scenarios for upgrading the accelerator to achieve the desired results at the earliest possible date.

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Cooperation

JINR at Science week in Tula

On 6 February, representatives of the Joint Institute took part in the opening of the Science Week in the Tula Region, which was held in the Oktava creative industrial cluster. They told participants about JINR and its research, discussed new formats of cooperation and the status of joint work with representatives of universities in the region.

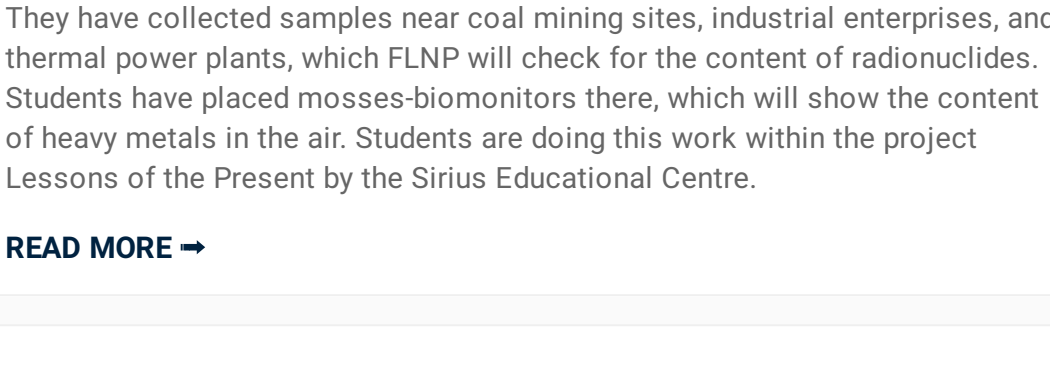


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Education

Submission of applications for START-2023

The START (Student Advanced Research Training) programme invites students and postgraduates to join the research conducted at JINR and supervised by leading scientists and engineers. Applications for the Summer Session 2023 are accepted on start.jinr.ru until 20 March.



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Kuzbass school students in cooperation with FLNP JINR assessing environmental situation in their cities

They have collected samples near coal mining sites, industrial enterprises, and thermal power plants, which FLNP will check for the content of radionuclides. Students have placed mosses-biomonitors there, which will show the content of heavy metals in the air. Students are doing this work within the project Lessons of the Present by the Sirius Educational Centre.

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JINR scientists about NICA project at School for young scientists in Yerevan

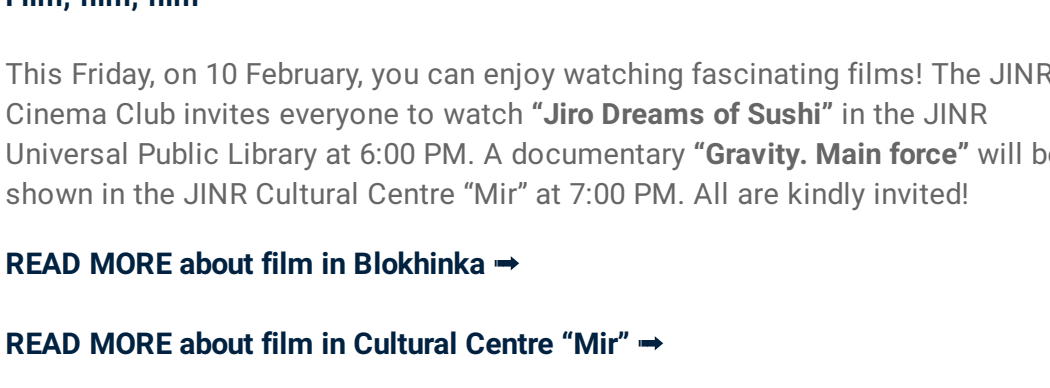
Yerevan State University (Armenia) is hosting a School for students and young scientists on physics at the NICA Accelerator Complex at JINR from 6 to 17 February. The school programme is aimed at motivating participants to start or continue research activity in high energy physics.

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JINR Community

New stickers with JINR scientists

On 8 February, the Institute's location country celebrated the Day of Science. Science is people, their bright minds, caring hearts, and gifted hands. In honour of the holiday, the JINR Press Office is glad to present a **new sticker pack** with scientists of the Institute, active science popularisers.



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Lecture about elementary particle interaction theory

The JINR Universal Public Library invites everyone interested to a lecture "Elementary particle interaction theory: from past to future" by a leading researcher of VBLHEP JINR Sector of New Physics Maria Savina. The lecture will take place on 11 February, at 5:00 PM.

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Film, film, film

This Friday, on 10 February, you can enjoy watching fascinating films! The JINR Cinema Club invites everyone to watch "Jire Dreams of Sush" in the JINR Universal Public Library at 6:00 PM. A documentary "Gravity, Main force" will be shown in the JINR Cultural Centre "Mir" at 7:00 PM. All are kindly invited!

[READ MORE about film in Blokhinka →](#)

[READ MORE about film in Cultural Centre "Mir" →](#)

Publications

New issue of "Particles and Nuclei, Letters"

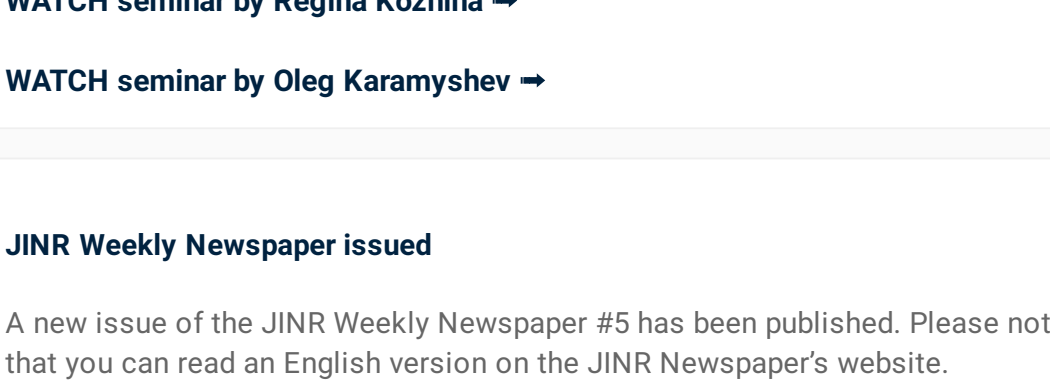
The first issue of the journal "Particles and Nuclei, Letters" 2023 has been published with results of the original theoretical, experimental, scientific-technical, methodical, and applied research.

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Media

Coverages of JINR

On the Day of Russian Science, several TV coverages about JINR and its studies were broadcast. [Russia 24](#) released two [coverages about the NICA Project](#) and an [interview](#) with FLNR JINR Scientific Leader Yuri Oganesian. NTV broadcast a [coverage about the Baikal-GVD Project](#). Earlier, the Russia Today TV channel released a [coverage about the synthesis of superheavy elements](#) at FLNR.

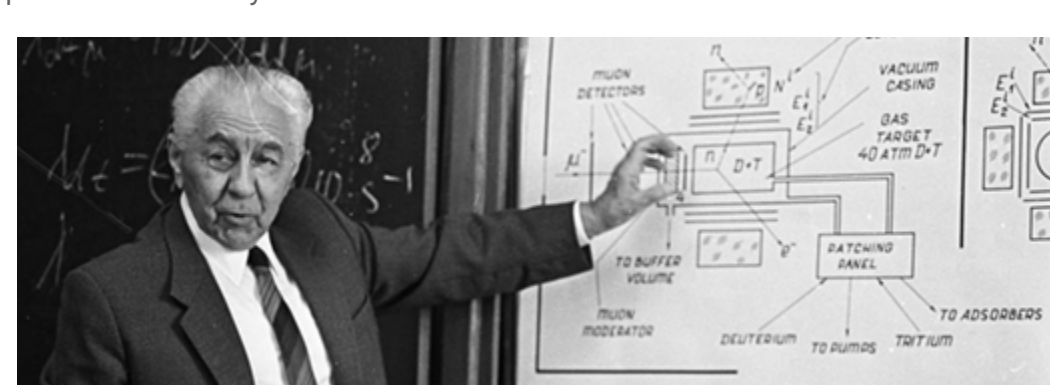


[WATCH coverages for Day of Russian Science →](#)

[WATCH coverage of FLNR →](#)

New podcast by RIA Novosti with JINR scientist

A MLIT JINR researcher Igor Pelevanyuk spoke about distributed computing, Grid computing, and IT technologies in megascience projects in a new episode of the popular science podcast "We will all die. But we are not sure".



[LISTEN →](#)

Cat the Accelerator Physicist for the success of the experiment!

Watch photos of Vasily the synchrophasocat! It participated as a part-time staff member in the final shift of the 4th commissioning run at the NICA Complex. The central control room was under his constant supervision until the official end of the run on 8 February 2023 at 00:15 AM Moscow time.

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Lecture and seminar recordings

We kindly invite you to watch a recording of a lecture "The mass boundaries of atomic nuclei" by FLNR JINR Scientific Leader Academician Yuri Oganesian, which he presented at Moscow State University. In addition, we offer you to watch recordings of seminars "DNA repair: all is well that ends well" by Regina Kozhina and "Virtual prototyping of cyclotron" by Oleg Karamyshev.

[WATCH lecture by Yuri Oganesian →](#)

[WATCH seminar by Regina Kozhina →](#)

[WATCH seminar by Oleg Karamyshev →](#)

JINR Weekly Newspaper issued

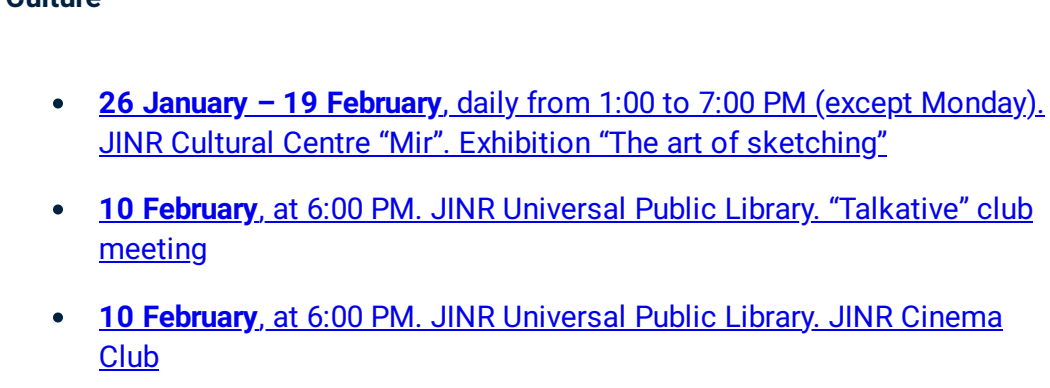
A new issue of the JINR Weekly Newspaper #5 has been published. Please note that you can read an English version on the JINR Newspaper's website.

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Recalling founders

Venedikt Dzhelelov

An outstanding organizer of science and talented physicist Venedikt Dzhelelov left only the grateful memory of his colleagues. On the eve of the scientist's anniversary, DLNP JINR has prepared several publications about him, which are published on Fridays.



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Announcements

Submission of applications for participation in Social Mortgage programme opened

Young JINR scientists and specialists who want to get a housing have a chance to receive state support under the Social Mortgage programme from the Ministry of Investment and Innovation of the Moscow Region. The deadline for submitting documents is from 06.02.2023 to 31.03.2023.

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Literature exhibition in JINR Science and Technology Library

From 8 to 22 February, the JINR Science and Technology Library invites visitors to a literature exhibition dedicated to the Day of Science.



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Upcoming Events

Governing and Advisory Bodies

- [16 – 17 February, 133rd session of the JINR Scientific Council, JINR International Conference Centre, Dubna](#)

Conferences

- [6 – 17 February, School for students and young scientists on physics at NICA collider complex at JINR, Yerevan, Armenia](#)

Seminars

- [10 February, at 11:30 AM, VBLHEP "Relational approach to verification of elementary particle types and its properties" by Yu. S. Vladimirov](#)
- [13 February, at 3:30 PM, BLTP, "Effect of Coriolis mixing on lifetime of isomeric states in heavy nuclei" by T. M. Shneidman](#)
- [13 February, at 2:00 PM, BLTP, Journal Club: "The Holographic Fishchain" by Ravi Lakhibhai](#)
- [15 February, at 11:00 AM, DLNP, "Study of the J/psi pair production in pion-nucleon interactions" by A. O. Gridin](#)
- [15 February, at 11:00 AM, BLTP "Renormal contributions to two-point correlator of nonlocal quark currents" by N. Volchansky](#)

Culture

- [26 January – 19 February, daily from 1:00 to 7:00 PM \(except Monday\), JINR Cultural Centre "Mir", Exhibition "The art of sketching"](#)
- [10 February, at 6:00 PM, JINR Universal Public Library, "Talkative" club meeting](#)
- [10 February, at 6:00 PM, JINR Universal Public Library, JINR Cinema Club](#)
- [10 February, at 7:00 PM, JINR Cultural Centre "Mir", Screening of the documentary "Gravity, Main force"](#)
- [10 February, at 7:00 PM, JINR Scientists' Club, Concert by A. Knyazev \(piano\) and Yu. Ignonina \(violin\)](#)
- [11 February, at 5:00 PM, JINR Cultural Centre "Mir", DUO & TRIO project concert](#)
- [11 February, at 5:00 PM, JINR Universal Public Library, Lecture "Elementary particle interaction theory: from past to future" by Maria Savina \(VBLHEP\)](#)
- [12 February, at 8:00 PM, JINR Cultural Centre "Mir", Rock concert](#)
- [14 February, at 7:00 PM, JINR Universal Public Library, Genealogical club's meeting](#)
- [16 February, at 7:00 PM, JINR Cultural Centre "Mir", Performance based on play by Marc Camoletti](#)

Sports

- [16 February – 26 March, JINR Sports Complex, XXIV JINR Sports Games](#)

For Kids

- [11 February, at 4:00 PM, JINR Universal Public Library, Meetings "Engineering" and "Let's READers"](#)
- [11 February, at 6:00 PM, JINR Universal Public Library, Meeting "In touch"](#)

[ALL JINR EVENTS →](#)