

JINR Newsletter #24, 2 July 2025

Dear colleagues and friends,

The summer Programme Advisory Committees finished last week, with the PAC for Condensed Matter Physics discussing the IBR-2 Research Reactor's stable operation. At the top of the agenda were the upgrades of the facility's instruments that allowed resuming user programme, as well as the upcoming studies at the reactor in autumn.

What matters most at JINR are people who make such achievements as research at the IBR-2 possible. A square near the entrance to the reactor was named after Vladimir Dmitrievich Ananyev, the first IBR-2 Chief Engineer.

In 20-30 years, the IBR-2 is planned to be replaced by the NEPTUNE Pulsed Research Reactor, which will open up more opportunities for working on the cutting edge of science. The Laboratory of Neutron Physics at JINR recently published a book on directions of research at this prospective neutron source.



Advisory Bodies

61st PAC CMP meeting: resumption of IBR-2 operation and modernisation of its instruments

At the latest Programme Advisory Committee for Condensed Matter Physics, specialists confirmed that the IBR-2 Research Reactor operates stably after the long shutdown and shared information about the experiments conducted at the facility this spring. Find out more in the article on the JINR website.



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Conferences

Complex Systems and Advanced Materials school started at BLTP at JINR

From 30 June to 4 July about 50 students, postgraduates, and young researchers from various scientific centres and universities of Russia, Belarus, and Slovakia are taking part in the international school. The participants are listening to lectures by leading researchers and making short presentations.



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NUMAR-Gobi 2025 international school started in Mongolia

The International School on Nuclear Methods and Applied Research is taking place this week. Mongolian students are listening to lectures by scientists from JINR and the Institute's partner organizations in the country.

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Ceremonies

JINR pays tribute to outstanding FLNP engineer

A square near the entrance to the IBR-2 Reactor was named after Vladimir Dmitrievich Ananyev, an outstanding reactor technology specialist, the first IBR-2 Research Reactor Chief Engineer. A ceremony took place to open the square and unveil a commemorative plaque.



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Publications

New issue of Natural Science Review

The third issue of the international scientific journal published by JINR features articles on nuclear physics, mathematical physics, and applied research in modern experiments in neutrino physics and nuclear medicine.



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FLNP JINR published book on directions of research at prospective neutron source

The new book is devoted to important future studies scientists will conduct at the NEPTUNE Pulsed Research Reactor planned to replace the IBR-2 in the next 20-30 years. Two more volumes will be published in the future, detailing the reactor's experimental facilities and describing NEPTUNE itself.

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Announcements

Registration opens for conference on cultural heritage studies

The international scientific conference entitled "Application of methods of natural sciences in archaeological research" will take place on 15–17 September in Almaty, Kazakhstan. The conference is dedicated to the 70th JINR anniversary. Application submission deadline is 1 August.



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Youth school on linear accelerators invites applications

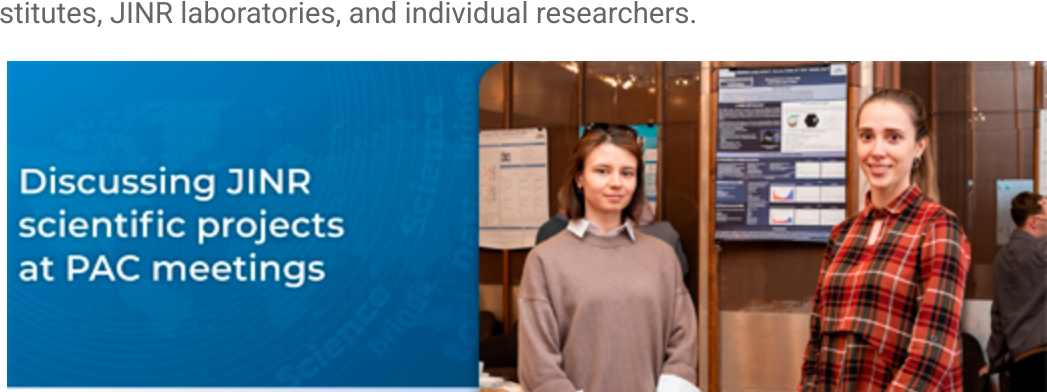
On 24–29 August, the International School of Accelerator Physics: Linear Accelerators will take place in Verbilki, Russia. Students, postgraduates, young scientists and specialists under 36 are invited to apply until 20 July [via the link](#).

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Media

Video about JINR PAC meeting results

At the end of June, JINR hosted meetings of the Programme Advisory Committees on Nuclear Physics, Particle Physics, and Condensed Matter Physics. The committee members assessed research projects presented by scientific collaborations, institutes, JINR laboratories, and individual researchers.



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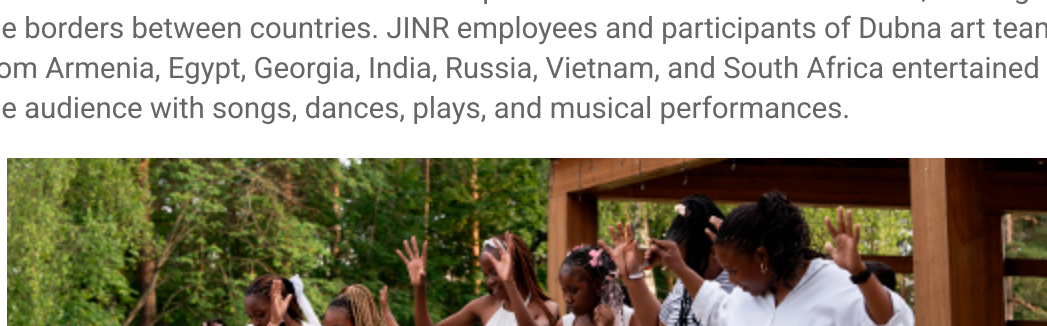
nuGen-DANSS joint workshop took place

At the Laboratory of Nuclear Problems at JINR, scientists discussed experiments at Kalinin Nuclear Power Plant, Russia. The presentations covered ongoing measurements, data analysis, results obtained, future research, and plans for the modernisation of experimental facilities.

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International concert at Volga River embankment

The JINR Fusion Vibe concert united representatives of different cultures, erasing the borders between countries. JINR employees and participants of Dubna art teams from Armenia, Egypt, Georgia, India, Russia, Vietnam, and South Africa entertained the audience with songs, dances, plays, and musical performances.



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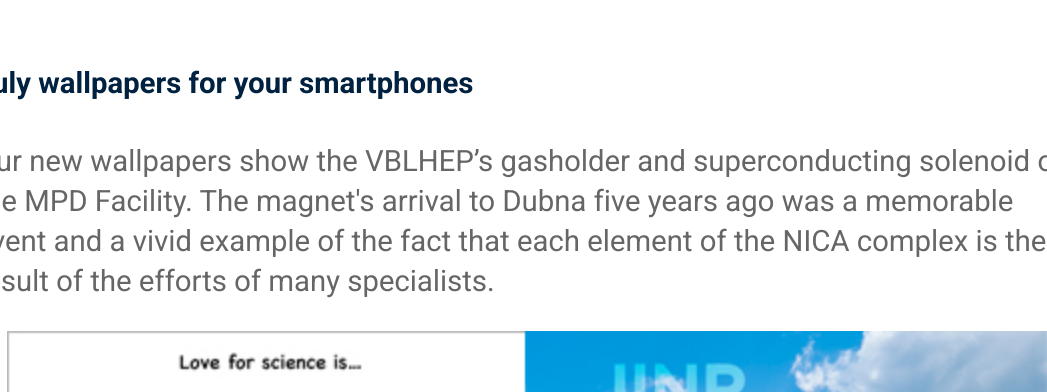
JINR at Youth Day in Dubna

On 28 June, at the Mendeleev Embankment, JINR employees Regina Kozhina (LRB) and Vladimir Rozhkov (DLNP) gave a lecture about the scientific projects of the Joint Institute and the activities of AYSS. Dmitry Dryablov from VBLHEP presented exciting physics experiments and scientific facts to young spectators.

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July wallpapers for your smartphones

Our new wallpapers show the VBLHEP's gasholder and superconducting solenoid of the MPD Facility. The magnet's arrival to Dubna five years ago was a memorable event and a vivid example of the fact that each element of the NICA complex is the result of the efforts of many specialists.



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Weekly JINR Newspaper issued

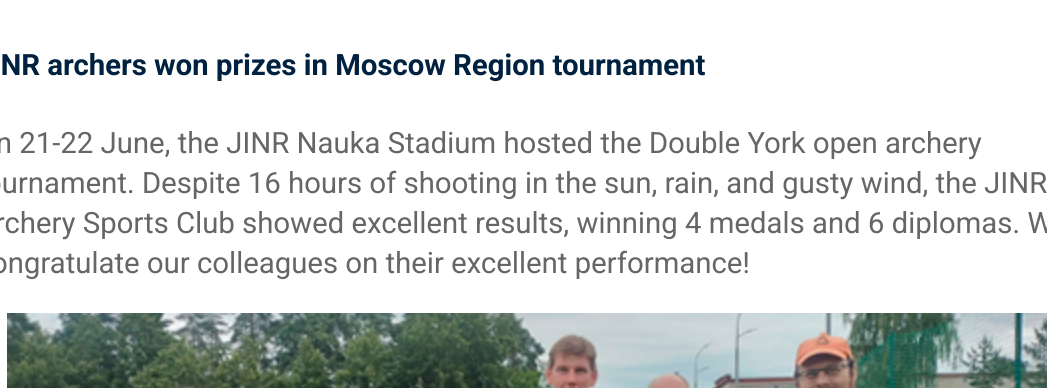
A new issue of the Weekly JINR Newspaper #23 has been published. Please note that you can read an English version on the JINR Newspaper's website.

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Sports

JINR archers won prizes in Moscow Region tournament

On 21-22 June, the JINR Nauka Stadium hosted the Double York open archery tournament. Despite 16 hours of shooting in the sun, rain, and gusty wind, the JINR Archery Sports Club showed excellent results, winning 4 medals and 6 diplomas. We congratulate our colleagues on their excellent performance!



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Archimedes Swimming Pool celebrated anniversary

On 28 June, the pool hosted a swimming competition dedicated to its 54th anniversary. More than 200 athletes from Moscow and Moscow Region participated, with JINR employees showing excellent results. Congratulations on the successful performance!

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Upcoming Events

Conferences

- **30 June – 4 July.** 2nd Panasyuk Problems of Cosmophysics scientific conference. Dubna, Russia
- **1–6 July.** 75th International Conference "Nucleus-2025. Nuclear physics elementary particle physics, and nuclear technologies". Saint Petersburg State University, Russia
- **7–10 July.** Superconducting and Magnetic Hybrid Structures international workshop. BLTP JINR, Dubna
- **7–11 July.** 11th International Conference "Distributed computing and Grid technologies in science and education". MLT JINR, Dubna

Training

- **16 June – 4 July.** Stage I of International Student Internship in the JINR Fields of Research for Students from South Africa and Egypt. JINR, Dubna
- **30 June – 4 July.** Complex Systems and Advanced Materials International School. BLTP JINR, Dubna
- **30 June – 4 July.** International School on Nuclear Methods and Applied Research in Environmental, Material, and Life Sciences (NUMAR-Gobi 2025). Ulaanbaatar, Mongolia
- **2–12 July.** Element 105 summer school and workshop. JINR Volga Recreation Centre
- **6–12 July.** Archival Impulse Summer School by JINR. Higher School of Economics, and Archives of the Russian Academy of Sciences. UC JINR, Dubna
- **7–11 July.** Scientific school for physics teachers from the JINR Member States. JINR, Dubna
- **July – November.** START-2025 student programme, summer session. JINR, Dubna

Seminars

- **3 July, 11:00 AM.** VBLHEP. "Development and research of laser plasma generator of multiply charged ions for I-3, I-4 heavy ion injector" by Anton Losev
- **3 July, 11:00 AM.** DLNP Dissertation Council. "Resonators of accelerating systems of isochronous cyclotrons for proton therapy" by Semyon Gursky
- **3 July, 3:00 PM.** MLT. "SPD offline computing environment" by Artem Petrosyan
- **8 July, 11:00 AM.** BLTP. "Beyond mean-field description of nuclear collective vibration and its new excitation possibility" by Yifei Niu
- **8 July, 2:00 PM.** BLTP. "Description of the $Oy\beta\beta$ decay and γ decay with the random phase approximation plus particle vibration coupling model" by Wang Lu

Culture

- **17 June – 13 July.** Daily from 1:00 to 7:00 PM (except Monday). JINR Mir Cultural Centre. Art exhibition by Anastasia Verner and Arina Belyaeva
- **4 July, 6:00 PM.** JINR Universal Public Library. JINR Cinema Club

ALL JINR EVENTS →