JINR Newsletter #36, 25 September 2025

Dear colleagues and friends,

Ambassador Extraordinary and Plenipotentiary visited the Joint Institute. In addition to getting acquainted with JINR's facilities, Sérgio Rodrigues dos Santos met with the Institute's leadership to discuss ongoing joint work and confirm intentions to further develop cooperation.

Specialists at the Laboratory of High Energy Physics have assembled the western half-ring of the NICA Collider and started the cooling process. This is another important step towards conducting physics experiments involving heavy-ion beam collisions at the forefront of science.

Watch a video on the 138th session of the JINR Scientific Council, read about the MBIR IRC Advisory Board meeting held at JINR, a seminar in memory of Mikhail Meshcheryakov, and much more in the latest issue of the JINR Newsletter.

Telegram
@jinrofficial

Cooperation

Brazil Embassy delegation visited Russia

The delegation, headed by Ambassador Extraordinary and Plenipotentiary Sérgio Rodrigues dos Santos, got acquainted with the Joint Institute for Nuclear Research on 23 September. Prospects for cooperation between Brazil and JINR were discussed with the Institute's leadership.

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Conferences

He laid foundations of Institute, city, Laboratory

MLIT at JINR hosted a seminar to commemorate Mikhail Meshcheryakov, one of JINR's founding fathers, the head of construction of the USSR's first large accelerator, and the founder of the Laboratory of Computing Machines and Automation. Dubna was built and developed under his leadership.

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MBIR IRC Advisory Board meeting held at JINR

On 23 September, the second meeting of the Advisory Board of the International Research Centre planned to be created at the Multipurpose Fast Neutron Research Reactor under construction took place. The key topic was joint work at the reactor, future experiments in physics and materials science, and personnel training.

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Research

Cooling of NICA Collider started

At JINR, assembly of the western section of the NICA Collider has completed, and its cooling process has begun. This is another important step towards conducting physics experiments involving heavy-ion beam collisions at the VBLHEP megascience facility.

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Publications

2024 bibliographic index of JINR scientific papers

The *JINR* Science and Technology Library has issued the 2024 Bibliographic Index of Papers Published by JINR Staff Members. Most descriptions are supplemented by links to the full texts of the papers. In addition, there are statistical tables on authors, topics, and types of publications.

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Media

Video about 138th session of JINR Scientific Council

Please enjoy a video in which JINR Director Grigory Trubnikov and Chief Engineer of the VBLHEP Injection Complex Artem Galimov talk about the cooling of the NICA Collider half-ring. The video also covers international cooperation and JINR student internships.

WATCH on VK →
WATCH in YouTube →

Grigory Trubnikov on Radio of Russia

A new episode of Praesens Historicum podcast with the JINR Director is out. On Radio of Russia, Grigory Trubnikov and host Natalya Bekhtina discussed the future of nuclear energy, the NICA Collider, experiments on the synthesis of elements 119 and 120 in Dubna, and much more.

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Interview by MLIT Deputy Director

Please enjoy an interview by Dmitry Podgainy to Scientific Russia on the history of the development of computing systems at the Laboratory of Information Technologies at JINR.

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Interview with Nellia Shirikova

An MLIT senior researcher Nellia Shirikova wrote and co-authored over 100 scientific papers and was honoured with the JINR First Prize twice. In the interview, she reminisces about her work with Nikolay Govorun, the first supercomputers, and much more.

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Interview about project among winners of JINR Innovation competition

A DLNP researcher Alexandr Selyunin gave an interview about the project entitled "Development of deep tissue oxygenation measurement systems using time-domain diffuse optics", which he supervised.

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JINR Mir Cultural Centre to host short films screening

The films, created at the Department of Chemistry of Moscow State University and at Skoltech, will introduce viewers to discoveries and research in chemistry. The screening will take place on 26 September, at 7:00 PM. The admission is free.

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JINR representatives in Minsk

JINR researchers participated in the Youth in Science 2025 conference and a meeting of the Council of Young Scientists of the International Association of Academies of Sciences. In addition, MLIT Deputy Director Nikolay Voytishin met with representatives of the United Institute of Informatics Problems of the National Academy of Sciences.

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MEPhI University leadership visited MLIT

Vice-Rector of the National Research Nuclear University MEPhI Natalia Barabashina met JINR representatives to discuss ways to expand ongoing cooperation.

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Weekly JINR Newspaper issued

A new issue of the *Weekly JINR Newspaper*, #35-36, has been published. Please note that you can read an English version on the *JINR Newspaper*'s website.

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Sports

Joint Institute's achievements in football

The *JINR* team took third place in the city football championship among organizations and educational institutions. *Congratulations to the athletes!*

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Upcoming Events

Conferences

- **29 September – 3 October**, Conference on High Energy Physics, Yerevan, Armenia

Training

- **21 September - 11 October**, Stage 2 of the International Student Internship in the JINR Fields of Research, JINR, Dubna

Seminars

- **25 September**, 3:00 PM, BLTP, "Portals into dark matter and the possible structure of the hidden sector models: progress and signal searches at the LHC" by Maria Savina
- **25 September**, 3:00 PM, MLIT, "On mathematical problems of error suppression in single-qubit gates" by Ljudmila Bordag, "Do quantum states have to be continuous? Galois fields and multiparticle quantum systems" by Vladimir Kornyak
- **26 September**, 11:00 AM, DLNP, Dissertation Council, "Radioactive nuclides and sources in nuclear spectroscopy" by Dmitry Filosofov
- **26 September**, 11:00 AM, BLTP, "Simple models of PDFs and nPDFs" by Anatoly Kotikov
- **26 September**, 11:00 AM, FLNR, "Studies of exotic phenomena in radioactive nuclei of the experimental group of nuclear reaction and structure from Peking University" by Hongwu Zhu
- **29 September**, 11:00 AM, BLTP Journal Club, "Matter to dark energy conversion generates positive neutrino masses" by Chitta Ranjan Das
- **1 October**, 11:00 AM, DLNP, "Modern methods of multidimensional analysis of experimental data" by Ivan Yeletskikh, Artem Vasyukov
- **1 October**, 4:00 PM, AYSS seminar, "In search of the Island of Stability of superheavy elements" by Nikita Kovzelev40

Culture

- **17 September – 12 October**, Daily from 1:00 to 7:00 PM (except Monday), JINR Mir Cultural Centre, Painting exhibition
- **25 September**, 6:00 PM, JINR Universal Public Library, English speaking club
- **25 September**, 7:00 PM, JINR Universal Public Library, Summer Reading List book club
- **26 September**, 6:00 PM, JINR Universal Public Library, JINR Cinema Club
- **26 September**, 6:30 PM, JINR Universal Public Library, Guttenberg's Smoking Room meeting
- **26 September**, 7:00 PM, JINR Mir Cultural Centre, Film screening
- **27 September**, 6:00 PM, JINR Mir Cultural Centre, Comedy performance
- **27 September**, 5:00 PM, JINR Universal Public Library, Festival of hobby clubs for adults
- **28 September**, 6:00 PM, JINR Mir Cultural Centre, Music and dance show
- **30 September**, 6:00 PM, JINR Scientists' Club, JINR Film Union
- **1 October**, 7:00 PM, JINR Mir Cultural Centre, Dubna Symphony Orchestra concert

Sports

- **28 September**, 11:00 AM, 56th annual track and field run in memory of Academician Veksler

ALL JINR EVENTS →

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