

JINR Newsletter #6, 19 February 2025

Dear colleagues and friends,

The middle of February marked a number of important events at the Joint Institute. The 137th JINR Scientific Council session took place. Cooperation prospects in science and education were discussed at meetings with delegations from the Vinča Institute, VINATOM, Rosatom, and the Russian Academy of Sciences.

Last Friday, a ceremony was held in Moscow to award the OGANESSON-2024 Prize laureates, outstanding researchers and science communicators from Kazakhstan, Russia, and South Africa.

In the new issue of the JINR Newsletter, you can also read about the launch of DLNP's new main facility LINAC-200, an exhibition of painting reproductions by Pieter Bruegel the Elder at FLNR, a JINR R&D competition for young developers, and much more.



Advisory Bodies

JINR Scientific Council: IBR-2 Reactor and LINAC-200 Electron Accelerator launch

The 137th Scientific Council session took place on 13–14 February. The recently launched IBR-2 and LINAC-200 were top of the agenda. In addition, the participants re-elected the FLNR Director, appointed the LNR Deputy Directors, and announced new Honorary JINR Doctors and winners of the Institute's annual prizes.

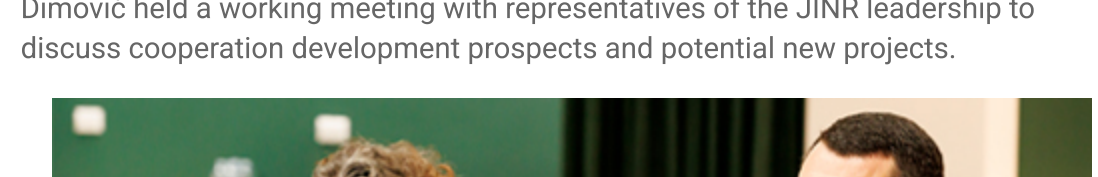


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Cooperation

Cooperation development with Vinča Institute discussed at JINR

On 13 February, a delegation from the Vinča Institute of Nuclear Sciences (Serbia) visited JINR and got introduced to its scientific infrastructure. Director Slavko Dimović held a working meeting with representatives of the Institute's leadership to discuss cooperation development prospects and potential new projects.



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VINATOM and State Specialised Design Institute delegations visited JINR

The meeting at the Laboratory of Neutron Physics took place on 11 February. The parties agreed to improve cooperation in research facilities, including JINR's IBR-2M and Vietnam's reactor planned to be put into operation in 2030s.

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JINR consolidates participants of promising programme to study fundamental properties of matter

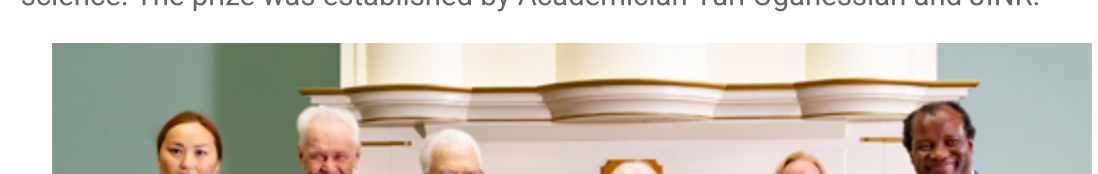
On 31 January, Academician-Secretary of the Physics Department of the Russian Academy of Sciences (RAS) Vitaly Kveder and Director of the RAS Institute of Solid State Physics Alexander Levchenko met with JINR's leadership and FLNR Scientific Leader Yuri Oganessian to discuss an upcoming federal programme aimed at studying the fundamental properties of matter.

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Awards

Outstanding scientists of Kazakhstan, Russia, and South Africa awarded the OGANESSON-2024 Prize

The ceremony took place on 14 February in Moscow. Five eminent scientists were honoured with the prize for their research work and endeavours that popularise science. The prize was established by Academician Yuri Oganessian and JINR.

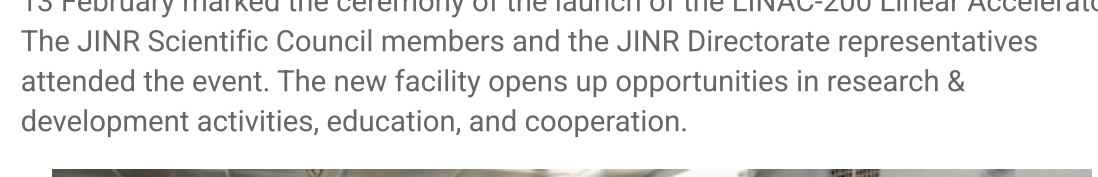


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Research

New DLNP JINR main facility launched

13 February marked the ceremony of the launch of the LINAC-200 Linear Accelerator. The JINR Scientific Council members and the JINR Directorate representatives attended the event. The new facility opens up opportunities in research & development activities, education, and cooperation.



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Conferences

JINR at conference of Russian Academy of Sciences in memory of Valery Rubakov

The Physics of Fundamental Interactions session and conference started on 17 February. The event is dedicated to the 70th anniversary of the birth of RAS Academician Valery Rubakov. About 70 representatives of the Joint Institute for Nuclear Research are taking part in the conference.

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Exhibitions

FLNR JINR is hosting exhibition dedicated to Bruegel's 500th anniversary

The exhibition of reproduced paintings by Pieter Bruegel the Elder, curated by FLNR JINR Scientific Leader Yuri Oganessian, invites visitors every Friday from 3:00 PM to 5:00 PM. At the opening ceremony, Yuri Oganessian discussed the prominent artist and the ideas behind his works.



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Exhibition at S&T Library marking Moscow State University anniversary and Russian Science Day

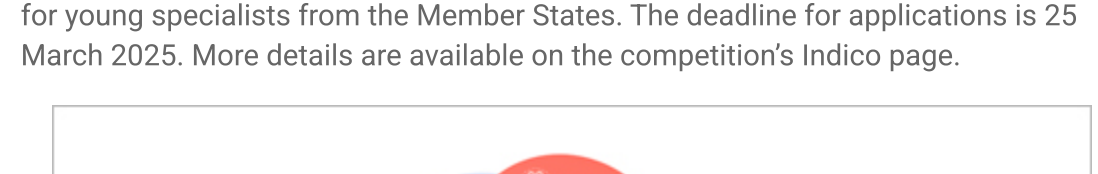
The Science and Technology Library is hosting the exhibition from 7 to 21 February. Visitors can find reference and encyclopaedic literature, monographs and collections dedicated to the university and its professors, along with books about the methodology and history of science.

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Announcements

JINR announces innovation development competition

The Institute launched a competition of innovative research & development projects for young specialists from the Member States. The deadline for applications is 25 March 2025. More details are available on the competition's Indico page.



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Physicists and Philosophers in Love: film festival

The documentary film festival is taking place from 19 to 25 February at the JINR Scientists' Club and Dubna University. The programme includes films dedicated to love stories of the greatest minds. Every day of the festival, viewers will watch two films: one about a physicist, the other about a philosopher.

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Join in JINR art exhibition

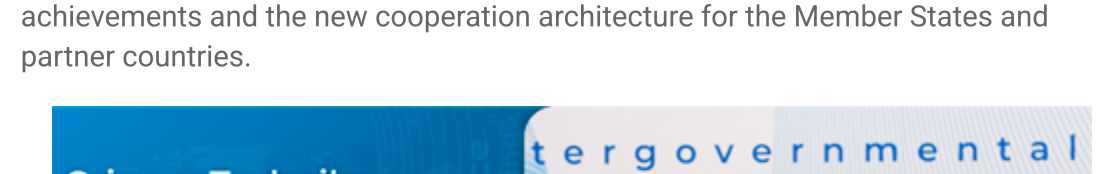
The JINR Mir Cultural Centre invites the Institute's employees to take part in the new Physics & Lyrics exhibition of paintings, photographs, poems, and books. Application details are available in the post, the deadline is on 5 March.

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Media

Grigory Trubnikov and Sergey Klin on 137th JINR Scientific Council session

In the video, the Institute's Director and SC Chair are talking about JINR's achievements and the new cooperation architecture for the Member States and partner countries.



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IBR-2 resumes operation

On 12 February, the IBR-2 Reactor successfully reached a test power of 250 kW after a long shutdown that lasted since 2021. The first test cycle for physicists at the reactor started on 17 February.

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Opening of Bruegel exhibition

Please enjoy a video in which Yuri Oganessian shares his thoughts about the great artist's work and his influence on the world.

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JINR valentine cards

Please enjoy our scientific romantic cards: they will help you share your feelings or make your friends and family smile.

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Seminar recordings

We invite you to watch the recording of the seminar comprising two talks: "Study on exotic states in hadronic and proton-nuclear collisions" by Mikhail Barabanov and "Study of spectra and femtosopic correlations in Au+Au interactions at the STAR Facility" by Armen Kechechyan.

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Weekly JINR Newspaper

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

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Upcoming Events

- Conferences**
- **8 – 23 February**, Teachers of the Future workshop for senior physics and mathematics students, JINR, Dubna
 - **21 February**, Workshop on SRF Technology for superconducting cavities as part of Russia-China Cooperation on the NICA and HIAE Projects, JINR, Dubna
 - **24 – 27 February**, International School on Nuclear Methods and Apolled Research in Environmental, Material, and Life Sciences (NUMAR-2025), La Habana, Cuba
- Seminars**
- **20 February, 3:00 PM, MLIT**, "Analytical and numerical models of gravitating configurations of a scalar field" by Ivan Potashov
 - **20 February, 11:00 AM, FLNP**, "Application of 1D and 2D nonmaterials in energy and ecology" by Majid Al-Bueishi
 - **20 February, 11:30 AM, YBLHEP Dissertation Council**, "Beam control and diagnostics systems for KRION Highly Charged Ions Sources" by Dmitry Ponkin
 - **21 February, 11:00 AM, FLNR**, "Study of light neutron-excess systems using radioactive beams and ACCULINNA-2 array of neutron detectors" by Alexander Kivazev, "Structural changes in the amorphous Al₅₀Ni₄₀Fe₁₀ alloy under xenon ion irradiation" by Vera Semina
 - **21 February, 11:00 AM, FLNP**, "Quantum and classical dynamics of neutron in a magnetic field" by Ivan Rubakov
 - **21 February, 11:30 AM, YBLHEP**, "Determining the time of photon registration on ALICE PTOF to study correlations in p+²⁰Ne v.v systems and identify direct photons" by Andrew Kuznetsov
 - **25 February, 11:00 AM, MLIT**, "Text data mining methods and web tools for information processing and visualisation" by Anna Jilina, "Data mining of scientific and technical information on example of patent documentation" by Daria Zrelova
 - **26 February, 11:00 AM, DLNP**, "Study of associative production of Higgs boson with top quarks in ATLAS experiment at Large Hadron Collider" by Nazim Huseynov
- Culture**
- **19 – 25 February**, Dubna University, JINR Scientists' Club, Documentary film festival
 - **18 February – 16 March**, Daily, from 1:00 to 7:00 PM (except Monday), JINR Mir Cultural Centre, Sculpture exhibition
 - **20 February, 7:00 PM**, JINR Universal Public Library, Hairpin book club
 - **20 February, 7:00 PM**, JINR Universal Public Library, Astronaut meeting in JINR Museum
 - **21 February, 6:00 PM**, JINR Universal Public Library, English speaking club
 - **21 February, 6:00 PM**, JINR Universal Public Library, JINR Cinema Club
 - **21 February, 6:30 PM**, JINR Universal Public Library, Scrapbooking club's meeting
 - **22 February, 5:00 PM**, JINR Universal Public Library, Historical dance party
 - **22 February, 6:00 PM**, JINR Mir Cultural Centre, Symphonic concert
 - **23 February, 6:00 PM**, JINR Mir Cultural Centre, 12 Musicals show
 - **23 February**, Novaya Opera Theatre, Trip by JINR Scientists' Club
 - **25 February, 7:00 PM**, JINR Universal Public Library, Genealogical club's meeting
- For Kids**
- **20 February, 4:00 PM**, JINR Universal Public Library, Times and Epochs children's history project
 - **21 February, 6:30 PM**, JINR Universal Public Library, "Fiction from third desk" club meeting
 - **22 February, 5:00 PM**, JINR Universal Public Library, "Let's READers"
 - **22 February, 6:00 PM**, JINR Universal Public Library, Meeting of book club for teenagers
 - **21 February, 5:00 PM**, JINR Universal Public Library, SmART classes for children
- Sports**
- **23 February, 10:30 AM**, JINR Sports Club, 26th JINR Sports Games, Kettlebell lifting, Stage 1
- ALL JINR EVENTS →**