

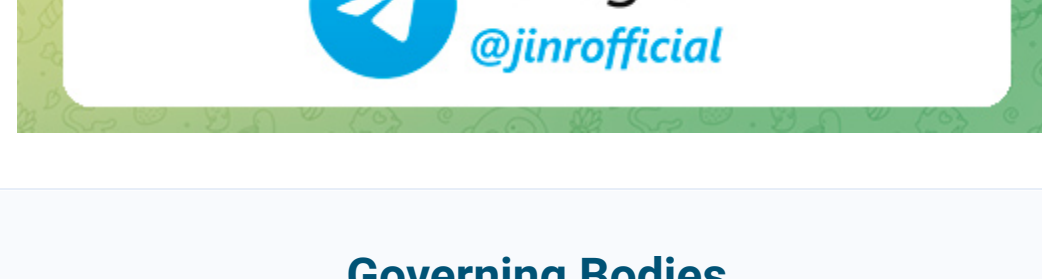
JINR Newsletter #48, 19 December 2024

Dear colleagues and friends,

The past week's highlights were a number of events and scientific achievements. The IASEN Symposium on Exotic Nuclei, organized by JINR and IThemba LABS, successfully finished in South Africa. And in China, with the active participation of the Institute's employees, the central detector of the JUNO Neutrino Experiment was put into operation.

The Laboratory of Nuclear Problems at JINR celebrated its 75th anniversary. In honour of the memorable date, more than 30 employees of the Institute received various awards.

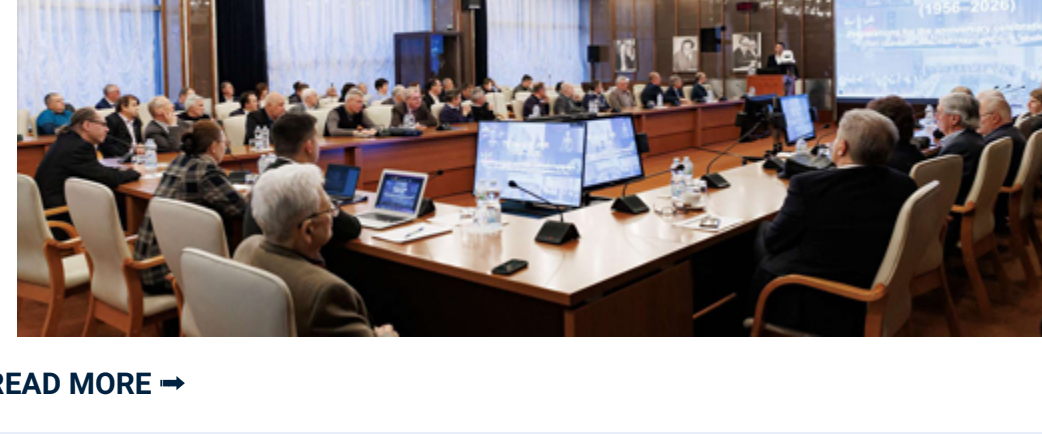
You will find New Year's JINR merchandise giveaway, details about past and upcoming conferences, information about the JINR Science and Technology Council, and much more in the latest issue of the JINR Newsletter.



Governing Bodies

JINR Science and Technology Council meeting

The meeting will take place tomorrow, on 20 December, at the JINR International Conference Centre. Participants of the event will review research results obtained during 2024 and discuss the prospects for the year ahead.



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Conferences

International symposium on exotic nuclei finished in South Africa

From 9 to 13 December, the 2nd International African Symposium on Exotic Nuclei, IASEN-2024, took place in Gordons Bay, Cape Town. It was organized by the IThemba LABS and JINR. More than 120 specialists gathered to discuss the research on nuclei under extreme conditions.

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Anniversaries

Anniversary of the Laboratory of Nuclear Problems at JINR: 75 years of Dubna's scientific history

On 14 December, DLNP employees and veterans, along with colleagues from other scientific centres, gathered to congratulate each other at the Mir Cultural Centre. As part of the event, 34 employees of the Institute were honoured with various awards.



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At origins of JINR: Professor Václav Votruba

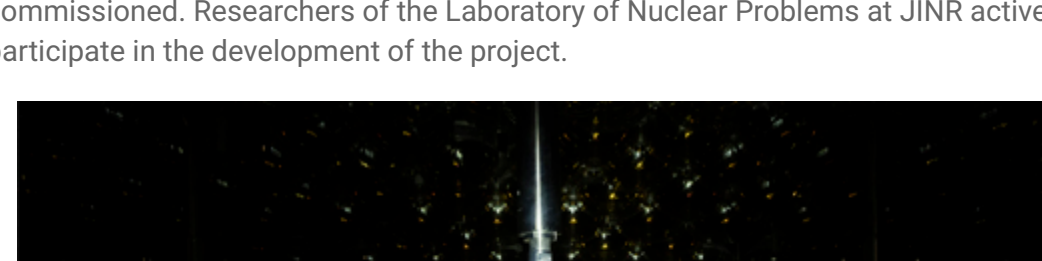
19 December marks the 115 anniversary of the birth of the outstanding Czechoslovak theoretical physicist Václav Votruba, one of the first Vice-Directors of the Joint Institute for Nuclear Research. Please enjoy an article detailing his career and achievements.

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Research

Important development stage of JUNO Experiment finishes

Yesterday, the central detector of JUNO – a large-scale international experiment aimed at studying reactor electron antineutrinos – has been successfully commissioned. Researchers of the Laboratory of Nuclear Problems at JINR actively participate in the development of the project.



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Volcanic emissions effect on human studied in JINR

Scientists of the Joint Institute for Nuclear Research studied the elemental and radioisotopic composition of the Shiveluch volcano ash in Russia. The data obtained made it possible to assess the potential health hazards in areas affected by the ash fall. The results were published in the *Journal of Environmental Management*.

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Publications

2023 bibliographic index of JINR scientific papers

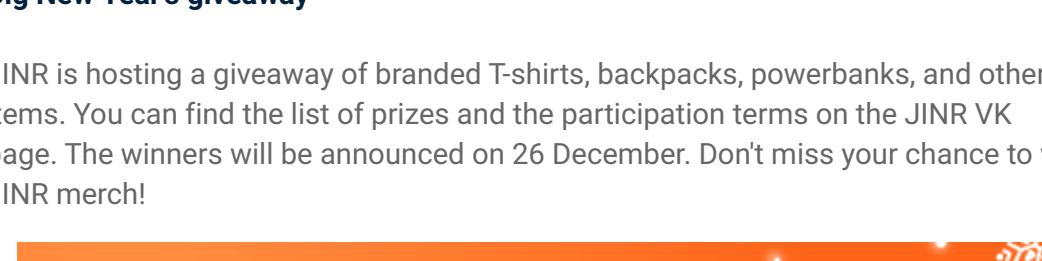
The JINR Science and Technology Library has issued the 2023 Bibliographic Index of Papers Published by JINR Staff Members. Most bibliographic descriptions are supplemented by links to the full texts of the papers. In addition, there are statistical tables on authors, topics, and types of publications.

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Announcements

Big New Year's giveaway

JINR is hosting a giveaway of branded T-shirts, backpacks, powerbanks, and other items. You can find the list of prizes and the participation terms on the JINR VK page. The winners will be announced on 26 December. Don't miss your chance to win JINR merch!



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Registration for NUMAR-2025 International School opens

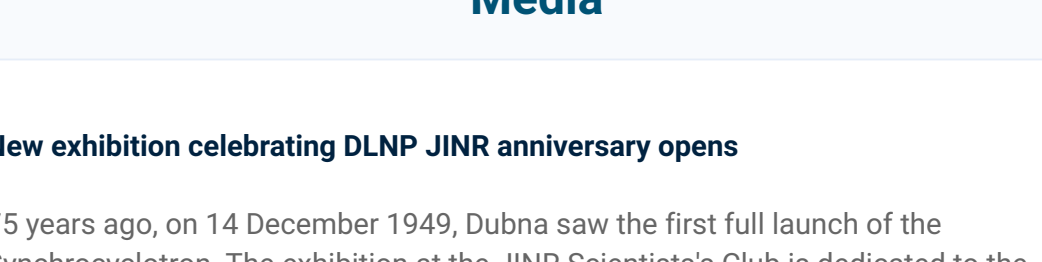
On 24–27 February 2025, the International School on Nuclear Methods and Applied Research in Environmental, Material, and Life Sciences will take place in Havana (Cuba) with JINR participation. Students finishing their third year of Bachelor studies, Master's, and PhD students from Latin America can send their application via the link until 10 January.

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Media

New exhibition celebrating DLNP JINR anniversary opens

75 years ago, on 14 December 1949, Dubna saw the first full launch of the Synchrocyclotron. The exhibition at the JINR Scientists' Club is dedicated to the history of the creation of the facility and the Laboratory of Nuclear Problems, illustrating the great scientific era that became the foundation of the modern JINR.



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Short film about Laboratory of Nuclear Problems at JINR

Please enjoy a video on the history of DLNP prepared by the Group of Scientific Communication to celebrate the Laboratory's 75th anniversary.

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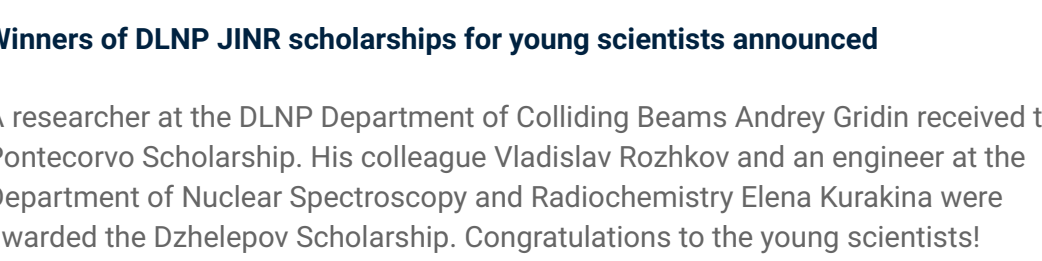
Winners of DLNP JINR scholarships for young scientists announced

A researcher at the DLNP Department of Colliding Beams Andrey Gridin received the Pontecorno Scholarship. His colleague Vlastislav Rozhkov and an engineer at the Department of Nuclear Spectroscopy and Radiochemistry Elena Kurakina were awarded the Dzhelepov Scholarship. Congratulations to the young scientists!

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Book by former DLNP Director about Baikai-GVD Project

In his memoirs, the fifth Director of the Laboratory of Nuclear Problems Vadim Bedyakov discusses the work conducted by the DLNP leadership on the unique Baikai-GVD Project.



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Workshop on data analysis by DLNP JINR employees took place at Moscow State University

On 5 December 2024, JINR scientists participating in the NOVA Neutrino Experiment held a workshop on oscillation data analysis for the students of the Physics Faculty at MSU. The event is a part of the series of popular science lectures "It's time for PAN (Particles and Atomic Nuclei)".

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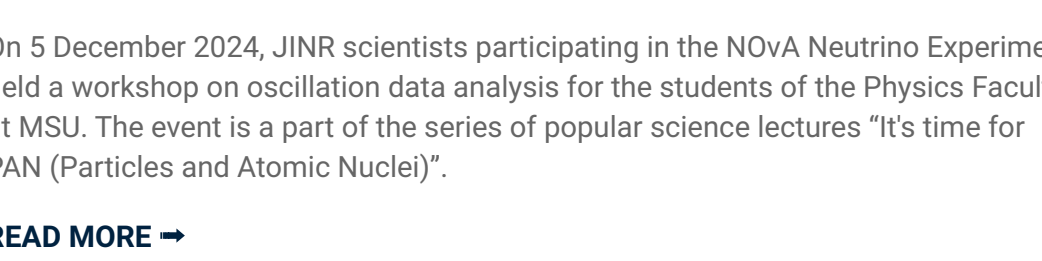
Seminar recording

We invite you to watch a recording of the seminar "A new SRC measurement with polarised deuteron beam: preparation progress" by Maria Patsyuk.

[WATCH →](#)

A day in JINR life

On 11 December, the JINR Telegram channel published a post with an archive photograph of an FLPNP JINR senior researcher Anatoly Beskrovny installing a sample on the goniometer of the DN-2 Diffractometer on an IBR-2 Reactor beam taken 34 years ago, on 11 December 1990. Please enjoy the photo and its description.



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Video about past week JINR events

We offer you to watch a video review of highlights from the life of the Institute.

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JINR Weekly Newspaper issued

A new issue of the JINR Weekly Newspaper #49 has been published. Please note that you can read an English version on the JINR Newspaper's website.

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Sports

JINR achievements in Dubna Spartakiad

On 15 December, the JINR Nauka Stadium held an air rifle shooting tournament as part of the city Spartakiad. The team of the Joint Institute for Nuclear Research consisting of VBLHEP, FLNP, and BLTP researchers took first place in all competitions. Congratulations to the athletes!

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Upcoming Events

Governing Bodies

- [20 December, 3:00 PM, International Conference Centre, JINR Science and Technology Council meeting](#)

Seminars

- [20 December, 11:00 AM, MLIT, Meeting of Dissertation Council](#)
- [20 December, 11:00 AM, FLNP, "Calculation of the reactivity of the IBR-2M Reactor due to thermal expansion of the fuel" by Aleksandr Verkhovlyadov](#)
- [20 December, 11:30 AM, VBLHEP, "Models of nucleus-nucleus collision at NICA energies" by Yuri Ivanov](#)
- [23 December, 11:00 AM, MLIT, "Parallelisation of the computational scheme for solving the non-stationary three-dimensional Schrödinger equation using a two-dimensional DVR basis" by Vladimir Melezhik](#)
- [23 December, 4:30 PM, FLNR, "Cold fusion of massive nuclei" by Yuri Oganesian](#)
- [24 December, 11:00 AM, DLNP, "Low-frequency radiation power stabilisation for compact precision laser inclinometer" by Yuli Klemeshov](#)
- [24 December, 3:00 PM, MLIT, "Distributed heterogeneous computing infrastructure for NICA data processing" by Igor Pelemanyuk](#)
- [25 December, 11:00 AM, DLNP, "LINAC-200 as new DLNP JINR main facility for research on electron beams" by Alexey Trifonov](#)

Culture

- [28 November – 22 December, Daily from 1:00 to 7:00 PM \(except Monday\), JINR Mir Cultural Centre, Exhibition dedicated to 75th DLNP anniversary](#)
- [24 December 2024 – 19 January 2025, Daily from 1:00 to 7:00 PM \(except Monday\), JINR Mir Cultural Centre, Exhibition by JINR Artists' Club](#)
- [20 December, 6:00 PM, JINR Universal Public Library, English speaking club](#)
- [20 December, 6:30 PM, JINR Universal Public Library, New Year concert](#)
- [21 December, Expocentre, Moscow, Trip by JINR Scientists' Club](#)
- [21 December, 6:00 PM, JINR Universal Public Library, "Fiction from their desk" club meeting](#)
- [21 December, 6:00 PM, JINR Universal Public Library, Guttenberg's Smoking Room meeting](#)
- [25 December, 7:00 PM, JINR Mir Cultural Centre, New Year concert of choir of Danilov Monastery](#)
- [26 December, 7:00 PM, JINR Universal Public Library, Hairpin book club](#)

For Kids

- [20 December, 6:30 PM, JINR Universal Public Library, Meeting of book and discussing club for teenagers](#)
- [21 December, 2:30 PM, JINR Universal Public Library, New Year game for children](#)
- [21 December, 3:00 PM, JINR Universal Public Library, New Year quiz for children](#)
- [21 December, 5:00 PM, JINR Universal Public Library, New Year "Let's READers"](#)
- [22 December, 6:00 PM, JINR Museum of History of Science and Technology, New Year Astronomical Brain Ring](#)

Sports

- [21 December, 10:00 AM, JINR Nauka Stadium, Table tennis tournament in memory of Alexander Weinstein](#)
- [21 December, 10:00 AM, JINR Nauka Stadium, Volleyball tournament for prizes of Nikolay Tamberg](#)
- [22 December, 9:30 AM, JINR Sports Club, Open New Year's eve weightlifting competitions in memory of Alexander Weinstein](#)

[ALL JINR EVENTS →](#)