

JINR Newsletter #5, 8 February 2024

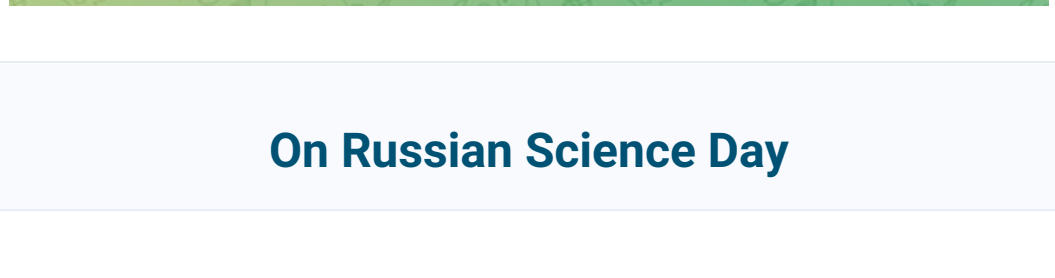
Dear colleagues and friends,

The key scientific event of the week was the establishment of a consortium for IT support of megascience projects by the Joint Institute, the Kurchatov Institute, and the Institute of System Programming.

The JINR Youth Association has opened a Dissertation Club, which will help young scientists prepare to defend their papers.

Today the JINR's location country, Russia, celebrates the Day of Science. This year, the holiday coincided with a significant date, the 300th anniversary of the Russian Academy of Sciences. The Joint Institute is actively participating in the celebration and, among other events, has released a new video. Please enjoy the latest issue of the JINR Newsletter!

JINR Press Office



On Russian Science Day

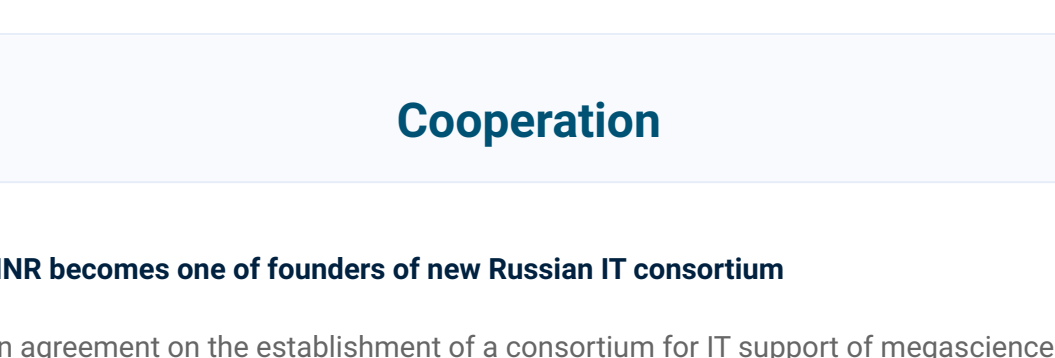
Congratulations of JINR Director on Russian Science Day

JINR Director, RAS Academician Grigory Trubnikov congratulates the Institute's employees, residents of the Dubna science city, colleagues in the Member States, and partners in the world's leading scientific centres on the Day of Science in Russia, the JINR's location country.

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JINR: flagship projects

8 February marks the Science Day in Russia, the JINR's location country. In honour of the holiday, we present a video dedicated to the Joint Institute and its three major projects: the development of the NICA Accelerator Complex, the construction of the Baikal Neutrino Telescope, and the synthesis of superheavy elements.

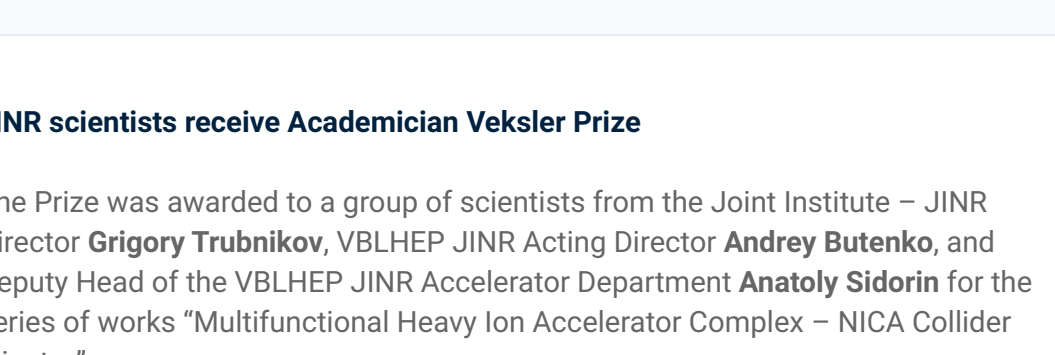


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Cooperation

JINR becomes one of founders of new Russian IT consortium

An agreement on the establishment of a consortium for IT support of megascience projects was signed. JINR Director Grigory Trubnikov, President of the Kurchatov Institute Mikhail Kovalchuk, and Director of the Institute of System Programming of the Russian Academy of Sciences Arutyun Avetisyan signed the document.

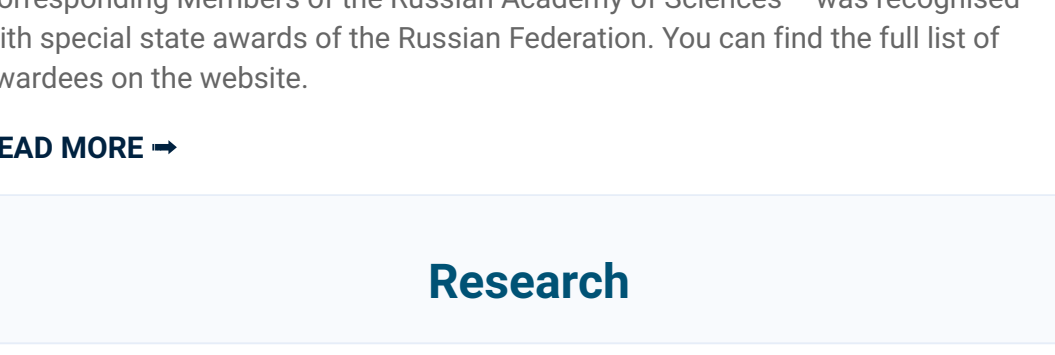


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Awards

JINR scientists receive Academician Veksler Prize

The Prize was awarded to a group of scientists from the Joint Institute – JINR Director Grigory Trubnikov, VBLHEP JINR Acting Director Andrey Butenko, and Deputy Head of the VBLHEP JINR Accelerator Department Anatoly Sidorin for the series of works "Multifunctional Heavy Ion Accelerator Complex – NICA Collider Injector".



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Prestigious awards presented to JINR scientists

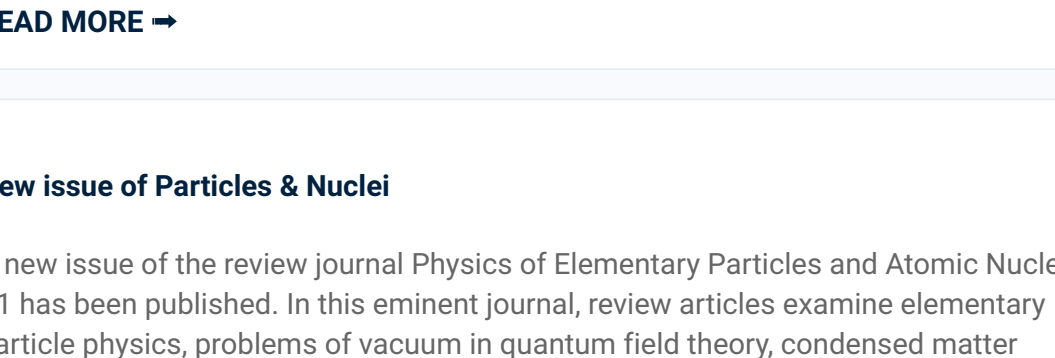
The scientific contribution of leading JINR scientists – Academicians and Corresponding Members of the Russian Academy of Sciences – was recognised with special state awards of the Russian Federation. You can find the full list of awardees on the website.

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Research

Air pollution level in Kazakhstan studied at FLNP JINR

FLNP JINR scientists conducted research to identify anthropogenic and geogenic air pollution in the Republic of Kazakhstan. Scientists analysed samples of moss collected in the field and found a total of 39 elements.



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Publications

Brief review of topmost JINR scientific results of 2023

A review of topmost scientific results obtained in 2023 at JINR has been published. Scientific results are presented in the following areas: theoretical physics, particle physics, neutron nuclear physics, condensed matter physics, ecological research, educational activities, etc.

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New issue of Particles & Nuclei

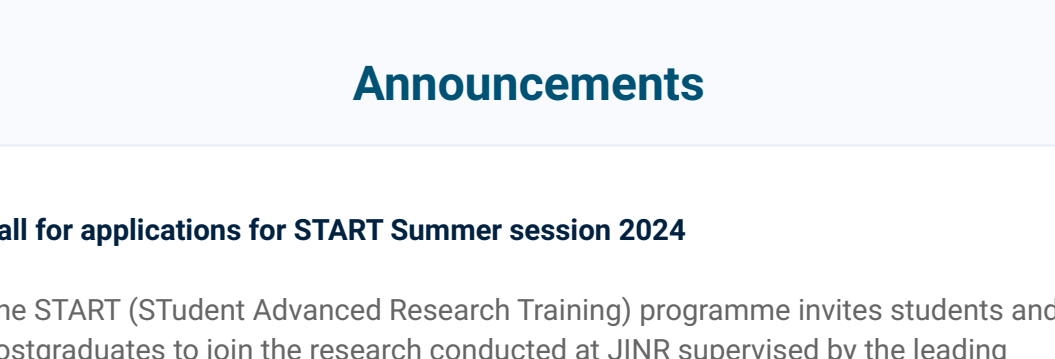
A new issue of the review journal Physics of Elementary Particles and Atomic Nuclei #1 has been published. In this eminent journal, review articles examine elementary particle physics, problems of vacuum in quantum field theory, condensed matter problems, symmetries in physics, etc.

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JINR Youth

Young JINR scientists won Moscow Region Governor's Award

Today, the Moscow Region Government House has hosted an award ceremony for the winners of the Governor's Prize in Science, Technology, and Innovation. In 2023, Alexander Nezvanov (FLNP) and Vladislav Shalaev (VBLHEP) became the winners. We wish the researchers further success and new academic victories!



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AYSS JINR starts Dissertation club

At regular meetings of the Club, candidates can get help in preparing their works and learn about the formal aspects of writing a dissertation from members of the Dissertation Council. Those willing to join the club can send a request [via the link](#).

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Brightest scientific discoveries to be discussed this weekend at VDNH

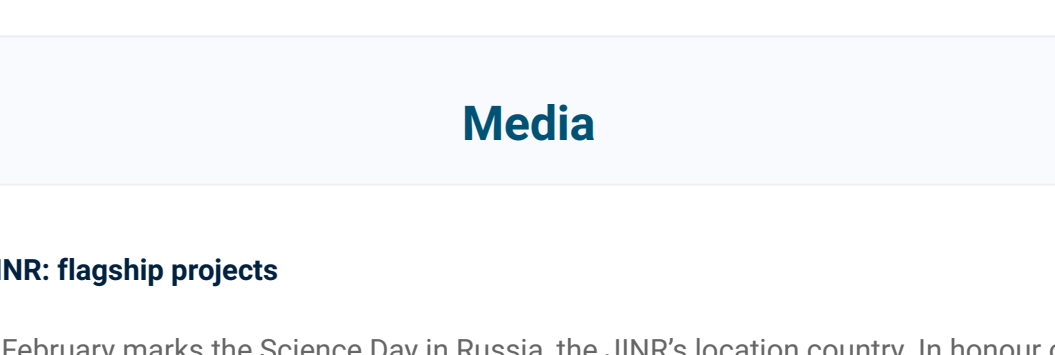
The Russia exhibition in Moscow is holding a series of Russian Science Day events, including the *On the Edge of Science* lecture hall. Among the speakers is a DLNP JINR researcher Vladislav Rozhkov: he will introduce listeners to the history and achievements of nuclear medicine.

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Announcements

Call for applications for START Summer session 2024

The START (Student Advanced Research Training) programme invites students and postgraduates to join the research conducted at JINR supervised by the leading researchers. Applications for the summer session 2024 (June - November) are accepted at [start.jinr.ru](#) until 28 March 2024.



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MSU branch in Dubna invites applications for Master's programme

The Dubna branch of Lomonosov Moscow State University (MSU) at the Joint Institute for Nuclear Research announces enrolment in the Master's programme. Admission of documents will start on 20 June 2024.

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Registration for RAS scientific session opens

From 1 to 5 April, the scientific session *Physics of Fundamental Interactions* will take place at JINR. You can now submit your application. For more information please visit the Conference's [website](#).

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Exhibition in S&T Library to mark Russian Science Day

This year, the exhibition is dedicated to the 300th anniversary of the Russian Academy of Sciences. Visitors can find literature on the history of RAS activity and books about the academicians. The exhibition runs from 8 to 22 February.

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Media

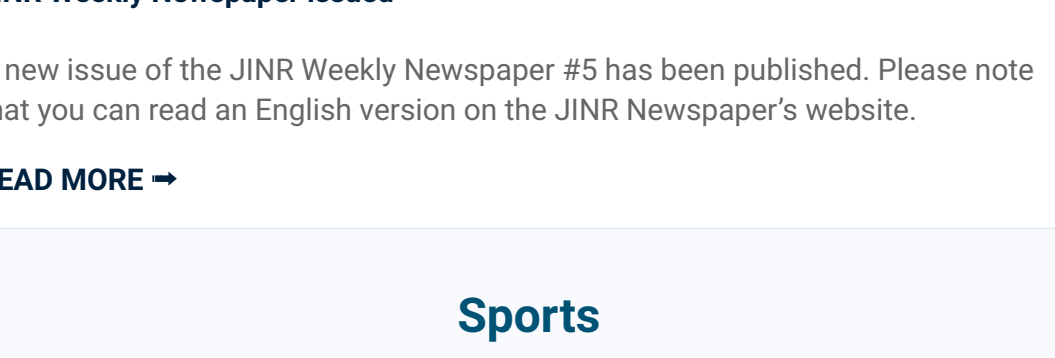
JINR: flagship projects

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WATCH →

Yuri Oganesian on synthesis of SHE

FLNR JINR Scientific Leader, RAS Academician Yuri Oganesian, spoke about the plans for the synthesis of new superheavy elements and how the production of the element 120 will help to confirm or disprove one of the two theories on the stability of superheavy elements.



WATCH →

PAC for Condensed Matter Physics: video

On 25 January, the 58-th meeting of the Programme Advisory Committee for Condensed Matter Physics took place at the JINR International Conference Centre. We invite you to watch a video about the event.

WATCH →

Seminar records

We invite you to watch records of the seminars: "Neutron-excess nuclei. Structures and transformations" by Yuri Oganesian at VBLHEP and "Direct measurement of solar p-p-neutrino flux in theorexino experiment" by Oleg Smirnov at DLNP.

WATCH seminar by Yuri Oganesian →

WATCH seminar by Oleg Smirnov →

AYSS publishes event digest for January 2024

Young scientists and specialists established a Ski Club. AYSS organized seminars at the JINR Scientists' Club, several meetings of the JINR Cinema Club took place with the support of the Association.

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Video about past week JINR events

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

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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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Sports

Success of JINR employee at ski marathon

On 3 February, the ski marathon Nikolov Perov took place. Maria Alitkina, a coach of the JINR Archimedes Swimming Pool, took the 5th place in the women's 50 km race and the 1st place in her age group. We congratulate Maria and wish her further sporting success!



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Participate in 25th JINR Sports Games!

In February - March, the 25th JINR Sports Games will take place at the JINR Sports Complex. The competition programme includes 11 sports. Institute employees and members of their families are invited to participate. For any questions, please contact Amira Travina (travina@jinr.ru).

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Upcoming Events

Governing Bodies

- 15 – 16 February. 135th session of the JINR Scientific Council. JINR International Conference Centre, Dubna

Conferences

- 11 – 17 February. International School "Nuclear Theory and Astrophysical Applications" (NTAA 24). JINR, Dubna

Seminars

- 9 February, 11:30 AM, VBLHEP. "Development of gluon dominance model to study multi-particle production processes and search for collective phenomena in high multiplicity region at U-70 Accelerator, Nuclotron, and NICA Collider" by Elena Kokoulina
- 9 February, 3:00 PM, FLNP. "Development of neutron diffraction research at IBR-2" by Anatoly Balaurov
- 13 February, 11:30 AM, MLIT. "On the entanglement in a two-qubit system and the torus action on the Grassmannian Gr(2,4)" by Lyudmila Bordaig
- 14 February, 11:00 AM, VBLHEP. "Deuteron as a substitute for a neutron target" by Nikolai Plyunuk (Kurchatov Institute)
- 14 February, 3:30 PM, FLNP. "Study of the radioactive properties of nuclei in decay chains of ²⁴³Am and ²⁴³Ca" by Nikita Kovtzhnykh
- 14 February, 3:00 PM, MLIT. "Gradient boosted decision tree for particle identification in the MPD Experiment" by Vladimir Papoyan. "Development and maintenance of JINR scientific services" by Ivan Sokolov
- 15 February, 11:00 AM, VBLHEP. "Experimental and computational evaluation of hydraulic properties of ECAL electronics cooling system for leak-less mode" by Alexander Fedotov (INP BSU, Minsk)

Culture

- 16 January – 18 February, daily from 1:00 to 7:00 PM. JINR Cultural Centre "Mir". Edges of graphics exhibition
- 12 February – 15 March, weekdays from 2:00 to 7:00 PM. JINR Scientists' Club. Art exhibition of Vlad Kravchuk
- 9 February, 4:30 PM. JINR Scientists' Club. "Modern science: social structure of its ideas. Lecture 2" by Vitaly Kurenkov
- 9 February, 7:00 PM. JINR Universal Public Library. "Art of independent thinking: how to ask thought-provoking questions" by Vadim Karastelev
- 11 February, 2:00 PM. JINR Cultural Centre "Mir". "The Ballad of a Little Hero" musical
- 11 February, 5:00 PM. JINR Cultural Centre "Mir". Concert by Festive male choir of Moscow Danilov Monastery
- 12 February, 4:30 PM. Online. "Modern science: social structure of its ideas. Lecture 3" by Vitaly Kurenkov
- 13 February, 7:00 PM. JINR Universal Public Library. Genealogical club's meeting

For Kids

- 9 February, 4:00 PM. JINR Universal Public Library. "Times and epochs" children's history project
- 10 February, 1:00 PM. JINR Universal Public Library. Meeting of debating club for teenagers
- 10 February, 4:00 PM. JINR Universal Public Library. Children's research project "Archimedes Pear"
- 10 February, 5:00 PM. JINR Universal Public Library. "Let's READers"
- 10 February, 6:00 PM. JINR Universal Public Library. Meeting of book club for teenagers

ALL JINR EVENTS →