



JINR Newsletter #19, 22 May 2024

Dear colleagues and friends,

Several major events dedicated to the NICA Megascience Project took place in Almaty, Kazakhstan. Among them are NICA Days 2024 and the 7th Collaboration Meeting of the SPD Experiment. Young scientists actively engaged in the NICA project events.

To train young scientific personnel, JINR is hosting the next Internship for Young Scientists and Specialists from the CIS Countries. In addition, the Institute is participating in the creation of DARIA, the Russian compact neutron source, at the Ural Federal University.

Read about this and much more in the latest issue of the JINR Newsletter.



Discussing NICA Project

NICA Days 2024 International Workshop finishes in Kazakhstan

The event took place on 17 May at Satbayev University, Almaty. Participants reviewed the status of the NICA Megascience Project and discussed the physics programme of its experimental facilities. One of the workshop's objectives was to encourage interest in the project among students, graduates, and young scientists.



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7th SPD Collaboration Meeting takes place in Almaty

On 20–24 May 2024, Kazakh-British Technical University (Kazakhstan, Almaty) is hosting a Collaboration Meeting of the Spin Physics Detector Experiment at the NICA Accelerator Complex. Participants are discussing the status of the facility with a special focus on the experiment's physics programme.

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Cooperation

Internship for Young Scientists from CIS Countries starts in Dubna

From 20 May to 18 June, JINR is hosting the 17th Internship for Young Scientists and Specialists from the CIS Countries. Participants will get acquainted with the Institute's research and infrastructure, visit Dubna enterprises, and work on scientific projects in international groups.



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JINR–AANL working meeting in Yerevan: stimulating scientific cooperation

The event followed the March meeting in Dubna and aimed at fostering scientific cooperation between the parties. Attendees discussed joint research, the creation of the JINR–AANL laboratory, the participation of AANL in the ARIADNA Collaboration at the NICA Accelerator Complex, and cooperation in the field of education.

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Awards

JINR employee among top five scientists in Russia

Recently, the Research.com leading scientific platform has published a list of the best scientists of 2024 in the field of environmental sciences. A researcher of the Frank Laboratory of Neutron Physics Marina Frontasyeva got the fifth place in Russia.

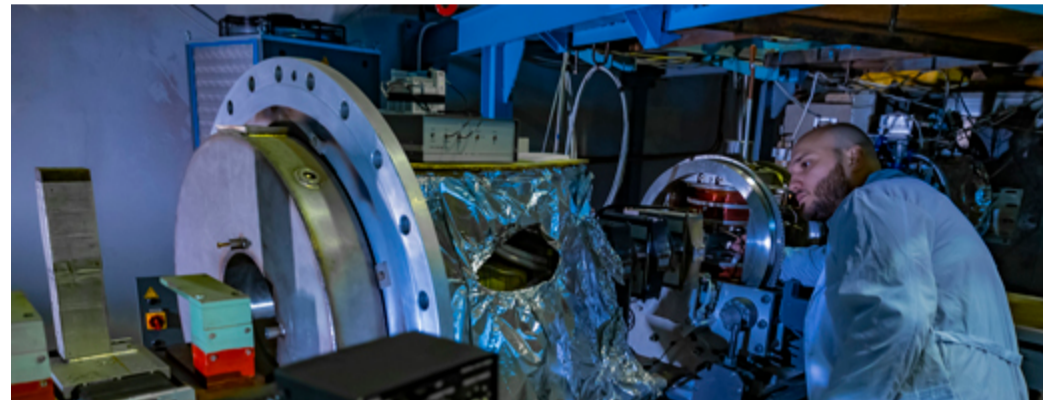


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Research

JINR participates in development of neutron source for Russian universities

The Joint Institute, along with a number of scientific and educational centres of Russia, is working on DARIA, the new compact neutron source. FLNP JINR researchers are devising the concept of a neutron moderator and one of the six experimental facilities that will be constructed around DARIA.



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Conferences

Quarks-2024 Seminar on High Energy Physics takes place

The event, organized by JINR and RAS Institute for Nuclear Research, is being held on 20–24 May in the Yaroslavl Region. This is the 22nd biannual seminar of the series dating back to 1980. This year, over 150 researchers of the leading Russian scientific centres are participating in the Quarks seminar.

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JINR Social

Results of 2023 sociological survey

The satisfaction level of the JINR personnel increased compared to the results of the previous year, reaching 65.35%. The survey was carried out in November 2023 among 630 employees of the Institute.



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Books

New Book Acquisitions exhibition in S&T Library

On 20 May–7 June, the JINR Science and Technology Library is hosting the New Book Acquisitions exhibition. The books presented include lectures and textbooks on physics, monographs on philosophy, and memoirs.

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Announcements

JINR Element 105 Workshop extends registration

The workshop will take place from 21 July to 5 August as part of the Summer School, an annual educational programme for schoolchildren and students. You can register until 5 June [via the link](#).

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Media

New art object opened in front of JINR Mir Cultural Centre

A floor mosaic celebrating culture and science was installed yesterday near the main entrance of the Centre. It was created by Mir employees and participants of a masterclass led by mosaic artist Mikhail Polyakov.



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FLNR JINR researchers on 360° TV channel

In the coverage, FLNR Nanocentre researchers Pavel Apel and Ilya Vinogradov talk about the laboratory's experiments in the field of regenerative medicine – the creation of an innovative bandage that scientists hope will speed up wound healing by 30%.

[WATCH →](#)

Seminar recordings

We offer you to watch recordings of seminars "Goal after goal"¹ by Oksana Pliiskovskaya and "Analytical calculations of electroweak corrections for processes of type $2 \rightarrow 2^2$ " by Leonid Rumyantsev.

[WATCH¹ →](#)

[WATCH² →](#)

Video about past week JINR events

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

[WATCH →](#)

JINR Weekly Newspaper issued

A new issue of the JINR Weekly Newspaper #18-19 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

- **19 May – 18 June.** Internship for young scientists and specialists from the CIS countries. JINR, Dubna
- **20 – 24 May.** 7th SPD Collaboration Meeting, Almaty, Kazakhstan
- **20 – 24 May.** 22nd International Seminar on High Energy Physics "Quarks-2024", Yaroslavl Region, Russia
- **27 – 28 May.** Workshop on Mathematical Problems in Quantum Information Technologies, MLIT, JINR, Dubna

Seminars

- **23 May, 11:30 AM.** VBLHEP, "Development of an algorithm for matching the accelerating voltage with the growth rate of the magnetic field" by Anton Volodin, "Control system for the electron gun of electron string ion sources" by Dmitry Pankin
- **23 May, 3:00 PM.** MLIT, "Architecture of a digital repository of publications on the DSpace platform" by Aleksey Bondyakov, "Software package for automated collection and systematisation of scientific publications" by Andrey Kondratyev
- **24 May, 10:00 AM.** VBLHEP, "Colliders" lecture series, "Intrabeam Scattering, Part 2" by Valery Lebedev
- **24 May, 11:00 AM.** DLNP, "Organization and style of a scientific article in English" by Mikhail Potapov
- **24 May, 11:00 AM.** BLTP, "Leptonic and semileptonic decays of mesons in the Domain model of QCD vacuum" by Vladimir Voronin
- **27 May, 3:30 PM.** BLTP, "Energy spectra for three particles with contact interactions" by Anastasiya Malykh
- **28 May, 6:00 PM.** DLNP, "Micromegas-based central tracker for the SPD Experiment" by Dmitry Dedovich
- **29 May, 11:00 AM.** BLTP, "Algebraic structure of the renormalisation group in the renormalisable OFT theories" by Konstantin Stepanyantz
- **29 May, 3:00 PM.** MLIT, "Software-algorithmic complex for reconstruction of charged particles trajectories and ion identification in the SRC at the BM@N Experiment" by Vasilisa Lenivenko

Culture

- **22 May – 16 June.** Daily from 1:00 to 7:00 PM (except Monday), JINR Cultural Centre "Mir", Exhibition of watercolour illustrations
- **23 May, 6:00 PM.** JINR Universal Public Library, JINR Cinema Club
- **23 May, 7:00 PM.** JINR Universal Public Library, Summer Reading List book club
- **24 May, 6:00 PM.** JINR Scientists' Club, JINR Cinema Club
- **24 May, 7:00 PM.** JINR Cultural Centre "Mir", "Rachmaninoff, Versatility of genius" concert
- **25 May, 6:00 PM.** JINR Universal Public Library, Guttenberg's Smoking Room meeting
- **26 May.** JINR Scientists' Club, Excursion to the Atom pavilion at VDNH
- **26 May, 3:00 PM.** JINR Cultural Centre "Mir", Recital of the Art Laboratory dance studio
- **28 May, 7:00 PM.** JINR Universal Public Library, Genealogical club's meeting

For Kids

- **23 May, 5:00 PM.** JINR Universal Public Library, Little Owls children's book club
- **24 May, 6:00 PM.** JINR Universal Public Library, Children's research project "Archimedes Pear"
- **24 May, 6:00 PM.** JINR Universal Public Library, Growing up from Let's READers
- **25 May, 4:00 PM.** JINR Universal Public Library, Times and Epochs children's history project
- **25 May, 5:00 PM.** JINR Universal Public Library, Let's READers
- **25 May, 6:00 PM.** JINR Universal Public Library, "Fiction from the third desk" club meeting

[ALL JINR EVENTS →](#)