

## JINR Newsletter #45, 27 November 2024

Dear colleagues and friends,

At a meeting of the JINR Directorate with the President of the Russian Academy of Sciences Gennady Krasnikov, the parties considered the prospects of joint work in space research, establishment of new IT infrastructure, and carrying out experiments at NICA.

The megascience project was also the main subject of NICA-2024, the JINR-MEPH online workshop. More than 150 scientists from 14 countries gathered to discuss recent results on the experimental data analysis and processing.

In the latest issue of the JINR Newsletter, you will also find a video about the CP JINR session held in Minsk, an article about the new climbing gym of the Joint Institute, bright sports news, and much more!



### Governing Bodies

#### JINR Science and Technology Council meeting

This Friday, on 29 November, the JINR International Conference Centre will host the JINR STC meeting. The agenda includes talks by JINR Director Grigory Trubnikov, Acting Rector of Dubna University Andrey Denkin, and JINR University Centre Director Dmitry Kamanin.



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### Cooperation

#### President of Russian Academy of Sciences visited JINR

During the visit on 22 November, a delegation of the Russian Academy of Sciences led by RAS President Gennady Krasnikov met with the JINR Directorate to discuss cooperation issues, toured sites of the JINR research infrastructure, and learned about the plans for major physics experiments at these facilities.



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### Conferences

#### Latest results on experimental data analysis and processing discussed at NICA-2024 workshop

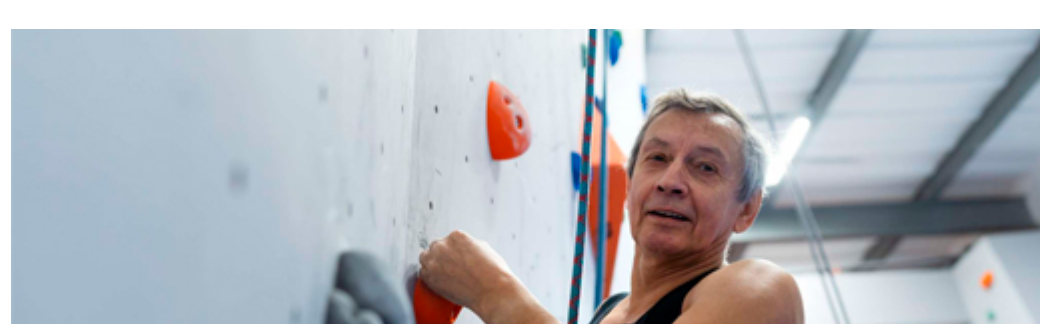
This week, a three-day online Workshop on Physics Performance Studies at NICA, organized by JINR and National Research Nuclear University MEPhI, has finished. More than 150 scientists from 14 countries discussed theoretical and experimental activities in physics of relativistic heavy-ion collisions.

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### JINR Social

#### Conquering new heights: new climbing gym opened in Dubna

The modern sports complex, available to not only JINR employees, but also all Dubna residents, opened at 19 Joliot-Curie Street. Athletes now have access to several dozen different routes. Please enjoy the article to find out more details about the new sports facility.



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### Books

#### New Book Acquisitions exhibition in S&T Library

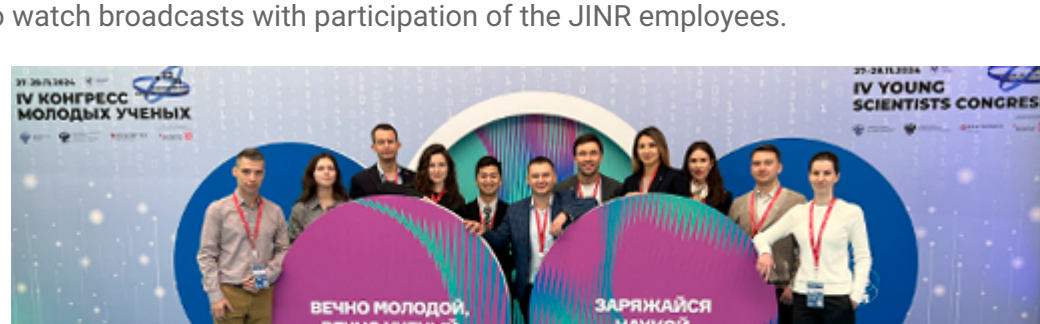
On 11–29 November, the JINR Science and Technology Library is hosting the *New Book Acquisitions* exhibition. You can find a book and album dedicated to the 80th anniversary of the birth of Alexei Sisakian, proceedings of international conferences, Springer books, and much more.

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### Media

#### JINR employees at Young Scientists Congress

This year, young minds from all over the world have gathered in Sirius, Russia, for the 4th time to participate in YSC from 27 to 29 November. Please follow the link below to watch broadcasts with participation of the JINR employees.



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#### JINR at Youth Forum on shore of Issyk-Kul

Representatives of AYSS JINR and Dubna State University participated in the International Youth Forum of Intellectuals in Cholpon-Ata, Kyrgyzstan, dedicated to the Year of Volunteering in the CIS Member States. The event served as an excellent platform for exchanging experience and establishing new contacts with colleagues engaged in charitable endeavours.

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#### High school students helped JINR employees conduct research

Participants of the *Sirius Summer* programme took part in studying radionuclide content of soil and potentially toxic chemical elements in air together with JINR employees. [Read more](#) on the Sirius Educational Centre website and in a comment of the research leader, FLNP JINR Sector Head Inga Zinicovskaia.

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#### Unity of strong science: results of CP JINR session

Please enjoy a video with interviews of JINR Director Grigory Trubnikov and Plenipotentiary Representative of Georgia in JINR Arsen Khvedelidze about results of the meeting of the Committee of Plenipotentiaries of the Governments of the JINR Member States.



[WATCH IN VK →](#)

[WATCH ON YOUTUBE →](#)

#### A day in JINR life

On 21 November, the JINR Telegram channel published a post featuring an archive photograph of radiochemists Nina Maltseva and Ida Chuburkova chemically isolating fermium from irradiated target at FLNR at JINR taken exactly 61 years ago, on 21 November 1963. Please enjoy the photo and its description.

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#### Seminar recordings

We invite you to watch recordings of seminars "DLNP mass separator for nuclear spectroscopy research and nuclear medicine<sup>1</sup>" by Anvar Inoyatov and "Study of polarisation effects at Mainz and Bonn accelerators using a polarised target designed by DLNP JINR<sup>2</sup>" by Victor Kashevarov.

[WATCH<sup>1</sup> →](#)

[WATCH<sup>2</sup> →](#)

#### 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

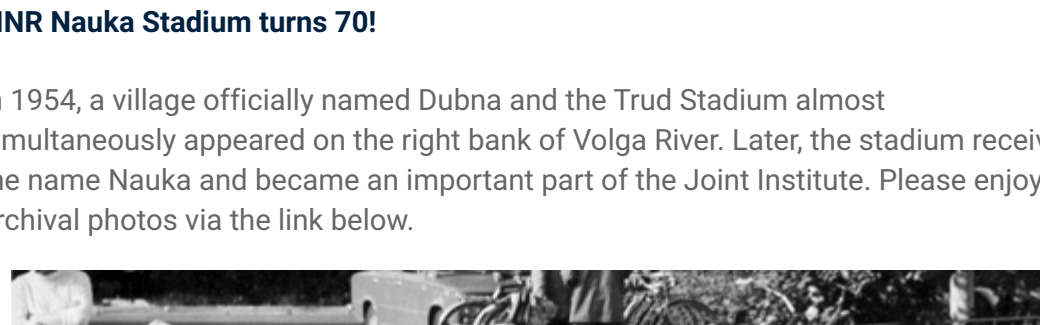
A new issue of the JINR Weekly Newspaper #45 has been published. Please note that you can read an English version on the JINR Newspaper's website.

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### Sports

#### JINR Nauka Stadium turns 70!

In 1954, a village officially named Dubna and the Trud Stadium almost simultaneously appeared on the right bank of Volga River. Later, the stadium received the name Nauka and became an important part of the Joint Institute. Please enjoy archival photos via the link below.



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#### Success of JINR employees at major swimming competition

On 22–25 November, Kazan (Russia) hosted the 31st Russian Masters Swimming Cup. Athletes of the Joint Institute's Element 105 Club performed brilliantly. Read more about the results on the JINR Sports VK page. Congratulations to the Institute's employees on the outstanding performances!

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### Upcoming Events

#### Governing Bodies

- [29 November, JINR Science and Technology Council meeting, JINR International Conference Centre, Dubna](#)

#### Conferences

- [2 – 4 December, New methods for processing data of physical experiments, Dolgoprudny, Russia](#)
- [3 – 6 December, Baikal Collaboration Meeting, DLNP JINR, Dubna](#)
- [3 – 5 December, Conference of FLNP young scientists and specialists, FLNP JINR, Dubna](#)

#### Seminars

- [28 November, 11:00 AM, VBLHEP, "Web portal of the NICA Complex control system" by Georgy Sed'kh, "Bench tests of power amplifiers of NICA Collider RF2 system" by Alexandr Karpuk, "Numerical simulation of arc source plasma parameters in the Source of Polarised Ions \(SPI\)" by Alisher Auezov](#)
- [28 November, 11:00 AM, LRB, "The morphological analysis of the collagen straightness in the colon mucosa away from the cancer" by Marko Cosić, "2D-polar histogram with varying radial and azimuthal spacing" by Milivoje Hadžijović](#)
- [28 November, 2:00 PM, MLIT, Meeting of Dissertation Council](#)
- [28 November, 4:00 PM, BLTP, The 12th International Conference on Exact Renormalisation Group 2024 review by Alfija Mukhaeva](#)
- [29 November, 10:00 AM, JINR Scientists' Club, "Magneto-optical structures of synchrotrons of the NICA Complex" by Alexandr Philippov](#)
- [29 November, 11:00 AM, FLNR, "Automatisation of ACCULINNA-2 fragment separator in experiments with radioactive beam" by Alexander Gorshkov](#)
- [29 November, 11:00 AM, FLNP, "Modelling the effect of neutron radiation on InAs semiconductor heterostructures" by Vladik Yamurzin](#)
- [29 November, 11:30 AM, VBLHEP, "Hadron elastic scattering in energy range  \$\sqrt{s} = 3.6 \text{ GeV} - 13 \text{ TeV}\$ " by Oleg Selyugin](#)
- [2 December, 11:00 AM, BLTP, Journal Club, "Perturbative versus non-perturbative renormalisation" by Alfija Mukhaeva](#)
- [3 December, 3:00 PM, MLIT, "JINR Repository of scientific publications" by Irina Filozova](#)
- [4 December, 11:00 AM, BLTP, "Anomalous dimension of the heavy-light quark current in HQET up to four loops" by Andrey Grozin](#)
- [4 December, 11:00 AM, DLNP, "New quantum-mechanical effect and its application in generation of twisted particle beams" by Alexander Silenko](#)
- [4 December, 3:00 PM, MLIT, "Singular spectrum analysis and forecast of financial condition of credit institutions in the Caterpillar-SSA approach" by Victor Ivanov](#)

#### Culture

- [28 November – 22 December, Daily from 1:00 to 7:00 PM \(except Monday\), JINR Mir Cultural Centre, Exhibition dedicated to DLNP 75th anniversary](#)
- [28 November, 7:00 PM, JINR Scientists' Club, "Suvorov crossing the Alps" lecture](#)
- [28 November, 7:00 PM, JINR Universal Public Library, Hairpin book club](#)
- [29 November, 6:00 PM, JINR Universal Public Library, English speaking club](#)
- [29 November, 6:30 PM, JINR Universal Public Library, Scrapbooking club's meeting](#)
- [29 November, 6:30 PM, JINR Universal Public Library, JINR Cinema Club](#)
- [29 November, 7:00 PM, JINR Mir Cultural Centre, Lecture on searching for life in space](#)
- [30 November, 12:00 PM, JINR Universal Public Library, Blokhinka volunteer training](#)
- [30 November, 6:00 PM, JINR Mir Cultural Centre, Season opening of dance collectives](#)
- [30 November, 6:00 PM, JINR Universal Public Library, Guttenberg's Smoking Room meeting](#)
- [1 December, 10:00 AM, JINR Mir Cultural Centre, Dance competition](#)
- [3 December, 7:00 PM, JINR Universal Public Library, Genealogical club's meeting](#)

#### For Kids

- [29 November, 5:00 PM, JINR Universal Public Library, Little Owls children's book club](#)
- [30 November, 5:00 PM, JINR Universal Public Library, "Let's READers"](#)
- [30 November, 6:00 PM, JINR Universal Public Library, Meeting of book club for teenagers](#)
- [1 December, 6:30 PM, JINR Universal Public Library, Intellectual game for schoolchildren](#)

[ALL JINR EVENTS →](#)