



JINR Newsletter #24, 3 July 2024

Dear colleagues and friends,

Last week, JINR renewed the cooperation agreement with Rosatom State Corporation, thus becoming an official member of the MBIR (Multipurpose Fast Research Reactor) Consortium. A major visit of a JINR delegation to China began with a meeting at the Institute of Plasma Physics of the Chinese Academy of Sciences (ASIPP) in Hefei.

In addition, JINR is hosting the 74th International Nuclear Physics Conference "Nucleus-2024: Fundamental Issues and Applications". Read about this and much more – scientific research, educational activities, and upcoming events of the Institute – in the latest issue of the JINR Newsletter.



Cooperation

JINR renews cooperation agreement with Rosatom, becoming official member of MBIR Consortium

JINR Director, RAS Academician Grigory Trubnikov and Rosatom Director General Alexey Likhachev signed the document on 26 June alongside the 2nd Obninsk NEW International Youth Nuclear Forum. The new agreement outlines plans for bilateral collaboration on a number of key scientific projects of the Joint Institute.



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JINR Director visits Institute of Plasma Physics of Chinese Academy of Sciences

As part of the visit on 1–2 July, Grigory Trubnikov met with the Director General of the Institute of Plasma Physics, Professor Song Yuntao, to discuss the prospects for enhancing cooperation between the two scientific centres. Joint work is planned in education, materials science, medical and environmental research.

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Conferences

74th Nucleus International Conference starts at JINR

On 1 July, the Laboratory of Theoretical Physics at JINR hosted the opening of Nucleus-2024: Fundamental Problems and Applications, the biggest annual Russian nuclear physics conference. This year, the event is organized by JINR, Moscow State University, and Saint Petersburg State University.

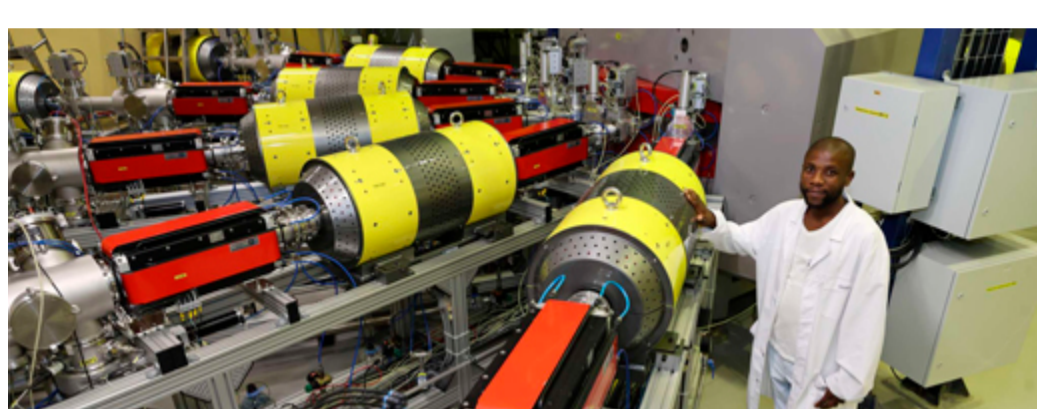


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Education

First stage of international internship for South African students finishes

On 21 June, the last day of the internship by the JINR University Centre, the participants presented the projects they worked on during their three-week visit to Dubna. Several students, along with their supervisors and the Deputy Director of iThemba LABS, coordinator of the internship, shared their thoughts on this experience.



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JINR hosted scientific and engineering school for Tomsk schoolchildren

On 24–26 June, high school students of Zaozernaya Secondary School № 16 visited JINR as part of an intensive course. They toured the Institute's laboratories, heard lectures, and participated in masterclasses.

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JINR contributed to modernisation of physics teaching method in Russian schools

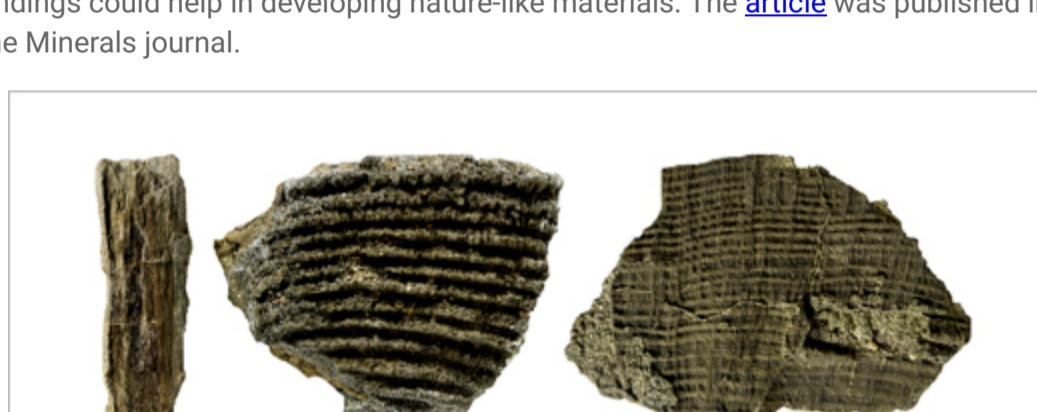
On 23 June, the results of the first All-Russian Olympiad for Physics Teachers, League of the Best, were announced at the site of the Russian Knowledge Society at VDNH. The Olympiad was organized by JINR, Moscow Engineering Physics Institute, Rosatom, Kurchatov Institute, and the Russian Academy of Sciences.

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Research

FLNP JINR researchers found out how ancient trees can help create new materials

The discovery was made by researchers from the Laboratory of Neutron Physics at JINR and Paleontological Institute of the Russian Academy of Sciences. Their findings could help in developing nature-like materials. The [article](#) was published in the Minerals journal.



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Monte Carlo programs for small-angle Bhabha scattering

The article by a team of authors from BLTP and DLNP at JINR and Dubna State University was published in Chinese Physics C. You can find out more information about the study on JINR's website.

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Awards

NICA as award: winner of quiz by Russian Ministry of Science and Higher Education visits JINR

A Bauman University student, Tatyana Mitrofanova won a quiz on the main achievements in science, technology, and higher education, which took place during the Science and Universities Day of the International Russia Forum. This granted her the opportunity to visit the NICA Complex at VBLHEP at JINR.

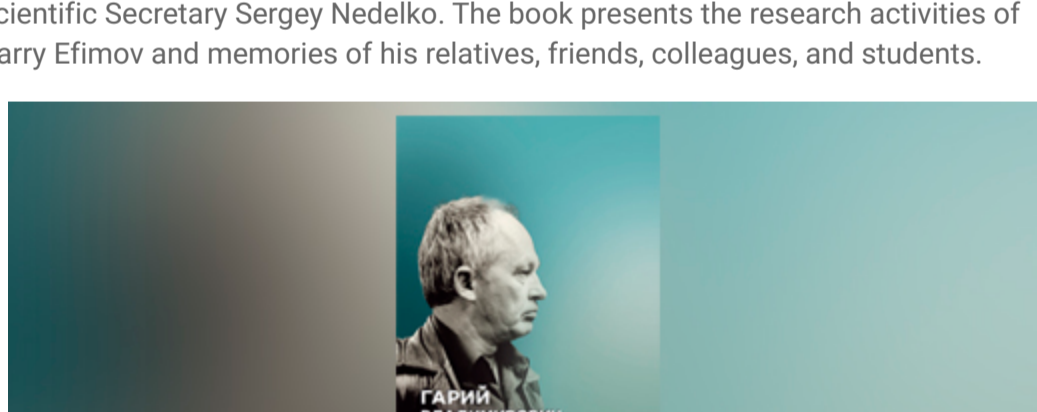


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Books

Book marking 90th anniversary of birth of Garry Efimov

The JINR Publishing Department released a book "Garry V. Efimov: celebrating 90th anniversary" compiled by BLTP JINR Chief Researcher Mikhail Ivanov and JINR Chief Scientific Secretary Sergey Nedelko. The book presents the research activities of Garry Efimov and memories of his relatives, friends, colleagues, and students.



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Social

Results of social mortgage competition announced

The Ministry of Investments and Innovations of the Moscow Region annually holds a competition to provide the most sought-after young scientists and specialists with state support in purchase or construction of housing. The list of this year's winners from the Institute is presented on the JINR website.

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Announcements

25th JEMS Training Programme to take place in September 2024

Administrative and scientific personnel from research and educational organizations of Vietnam and countries of Southeast Asia are invited to participate in the 25th JEMS Programme (JINR Expertise for Member States and Partner Countries), scheduled for 9–20 September 2024. Find out more on the event's page.

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Media

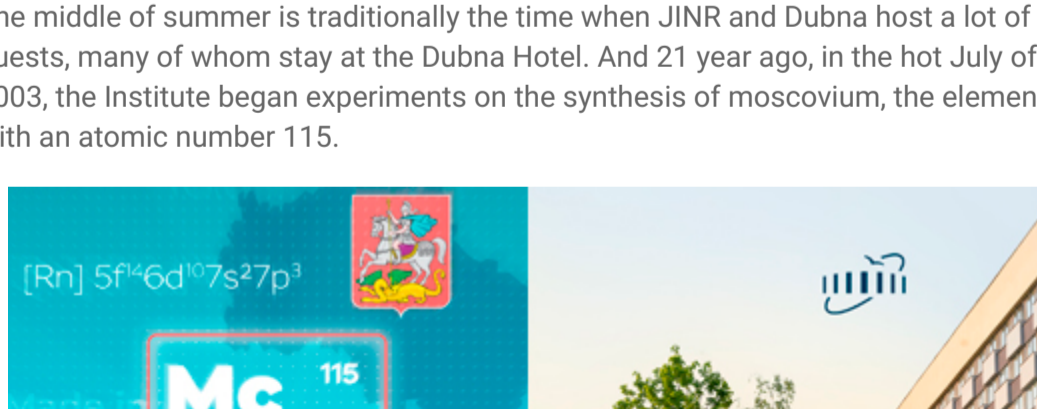
59th meeting of PAC for Condensed Matter Physics: video

On 24–25 June, JINR hosted the 59th meeting of the Programme Advisory Committee for Condensed Matter Physics. Please enjoy a video about the event featuring FLNP JINR Deputy Director Bagdaulet Mukhametuly and FLNP JINR Department Head Viktor Bodnarchuk.

[WATCH →](#)

July wallpapers for your smartphones

The middle of summer is traditionally the time when JINR and Dubna host a lot of guests, many of whom stay at the Dubna Hotel. And 21 year ago, in the hot July of 2003, the Institute began experiments on the synthesis of moscovium, the element with an atomic number 115.



[DOWNLOAD →](#)

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 #25 has been published. Please note that you can read an English version of the JINR newspaper's website.

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Sports

JINR achievements in swimming competitions

On 29 June, a stage of the 2024 Iver Swim competitions took place. Archimedes Swimming Pool coach Maria Aikina took the second place in the 2km race, and an FLNP JINR employee Alexey Allynov won the 4km event. Congratulations to the athletes!

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Upcoming Events

Conferences

- **1 – 5 July**, 74th International Conference on Nuclear Physics "Nucleus-2024: Fundamental problems and applications", JINR, Dubna
- **1 – 5 July**, 2nd coordination workshop on swift and multicharged ions in radiation material science, Irkutsk, Russia
- **1 – 18 July**, 36th Summer International Computer School (ICS-2024), Dubna, Russia
- **4 – 5 July**, Meeting of Working Group on Financial Issues under CP JINR Chairperson, Saint Petersburg, Russia
- **8 – 12 July**, Scientific School for Physics Teachers at JINR, JINR, Dubna
- **8 – 12 July**, International Conference on Hadron Structure and Fundamental Interactions (HSFI-2024), Gatchina, Russia
- **10 – 17 July**, 24th International Scientific Baikal Summer School on Physics of Elementary Particles and Astrophysics, Bolshoye Kotly, Irkutsk Region, Russia

Seminars

- **4 July, 10:00 AM**, VBLHEP, "On the issue of estimating displacements of Nuclotron quadrupole lenses" by Alexander Fililiov
- **8 July, 11:00 AM**, BLTP, Journal Club, "Primordial black holes can only explain a fraction of dark matter: LIGO-Virgo-KAGRA" by Chitta Ranjan Das
- **10 July, 11:00 AM**, DLNP, "From COMPASS to AMBER: From the spin crisis to the mystery of hadronic masses" by Oleg Denisov

Culture

- **19 June – 14 July**, Daily from 1:00 to 2:00 PM (except Monday), JINR Cultural Centre "Mir", Exhibition of wood carving and painting
- **4 July, 7:00 PM**, JINR Universal Public Library, Summer Reading List book club
- **5 July, 6:00 PM**, JINR Universal Public Library, English speaking club

[ALL JINR EVENTS →](#)