

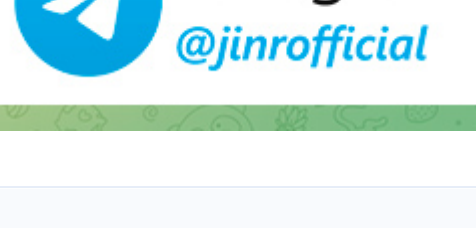
## JINR Newsletter #23, 26 June 2024

Dear colleagues and friends,

The last of the JINR PAC summer meetings concluded this week. International experts discussed the status and development of JINR projects in the field of condensed matter physics.

Summer is also the time for youth internships. The JINR Association of Young Scientists and Specialists held a summer scientific conference, and students from South Africa completed an internship at the Institute.

You can find articles about new awards and scientific results of JINR researchers, social activities, and latest media content in the new issue of the JINR Newsletter.



### Advisory Bodies

#### PAC CMP focuses on IBR-2 recommissioning and development of facility's research instruments

On 24–25 June, JINR hosted the 59th Meeting of the Programme Advisory Committee for Condensed Matter Physics. PAC members reviewed the status of the new neutron source project, modernisation of the IBR-2 Reactor, results of scientific research in condensed matter physics carried out by JINR employees, and reports by young JINR scientists.



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### JINR Youth

#### Alushta-2024: multidisciplinary unites

On 9–16 June, the 13th International Youth Conference organized by the JINR Association of Young Scientists and Specialists (AYSS JINR) took place at the Dubna Resort House (Alushta, Russia). More than 45 researchers from five countries participated in the event.



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### Education & Training

#### 17th Internship for Young Scientists from CIS countries finishes

On 17 June, the closing ceremony of the Internship for Young Scientists from the countries of the Commonwealth of Independent States took place at the JINR International Conference Centre. At the event, the internship participants defended their projects prepared in international scientific groups, and received completion certificates.



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#### Internship for South African students concludes at JINR

On 21 June, the 15th International Student Internship by the JINR University Centre finished. 19 young researchers from South Africa worked on scientific projects under the guidance of JINR scientists, met with JINR employees from the Member States, visited the Dubna University, and much more.

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#### Fourth graduation ceremony at Yandex Lyceum in Dubna

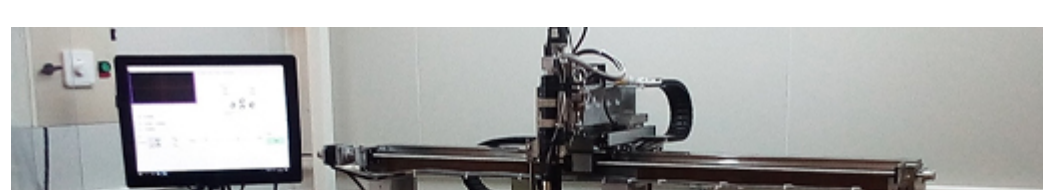
Another 16 schoolchildren completed their IT course at the Yandex Lyceum at the Dubna site, which is actively supported by the JINR University Centre. We congratulate the graduates and wish them further academic success! You can find more information about training on the official [website](#) of the Yandex Lyceum.

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### Research

#### VBLHEP JINR created supermodule assembly device for ionising radiation detection

Employees at the Laboratory of High Energy Physics at JINR developed a device for the assembly of supermodules of the silicon tracking system of the Baryonic Matter at Nuclotron (BM@N) Experiment at the NICA Collider. Read more about the invention in the article on the JINR website.



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#### FLNP and DLNP multi-foil neutron detector for work with closely spaced samples

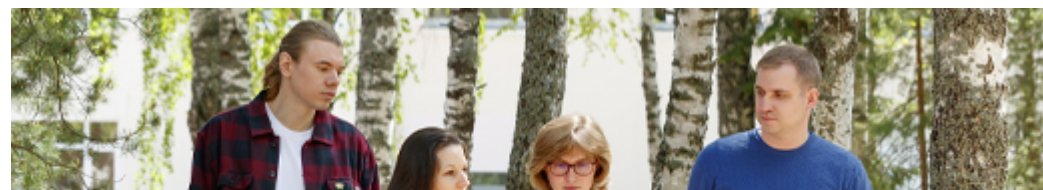
Scientists of the Laboratory of Neutron Physics and the Laboratory of Nuclear Problems at JINR continue to work on the concept of a position-sensitive detector of thermal and cold neutrons based on boron carbide. Read more about the features of the new development in the article on the JINR website.

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### Awards

#### FLNP JINR scientists awarded medals at international exhibition

On 6–8 June 2024, Euroinvent-2024, the 16th European Exhibition of Creativity and Innovation, took place in Iași (Romania). Among winners were employees of the Laboratory of Neutron Physics at JINR Inga Zinicovscaia, Dmitrii Grozdov, Nikita Yushin, and Alexandra Peshkova. Congratulations to the JINR researchers on the awards!



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### Publications

#### Review of Particles and Nuclei, Letters Journal, #3 2024

We invite you to read the review of the third part of this year's volume of the "Physics of Elementary Particles and Atomic Nuclei, Letters" journal that publishes the articles with results of the original theoretical, experimental, scientific and technical, methodical, and applied research.

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### Books

#### S&T Library exhibition marking Pyotr Kapitsa anniversary

The literature exhibition features scientific works of Pyotr Kapitsa in different fields, including history of physics and science organization. In addition, memories of his friends, colleagues, and family will be presented. The exhibition runs from 24 June to 12 July.

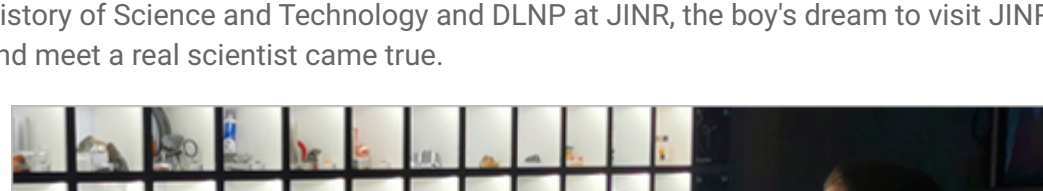


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### JINR Social

#### Trip to science: school student from Yekaterinburg visits JINR

Please enjoy the wonderful story of Sasha, a ten-year-old boy who is fond of exact sciences. Thanks to the efforts of the Little Fox Charity Fund, the Museum of the History of Science and Technology and DLNP at JINR, the boy's dream to visit JINR and meet a real scientist came true.



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### Announcements

#### Registration for Cyclotrons International School extended

The deadline for submitting applications for the Cyclotrons International School of Accelerator Physics has been extended until 1 July. The event will take place from 25 to 30 August in Verbilki Village, Moscow Region. You can register [via the link](#).

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#### JINR invites employees riding bicycles to join project

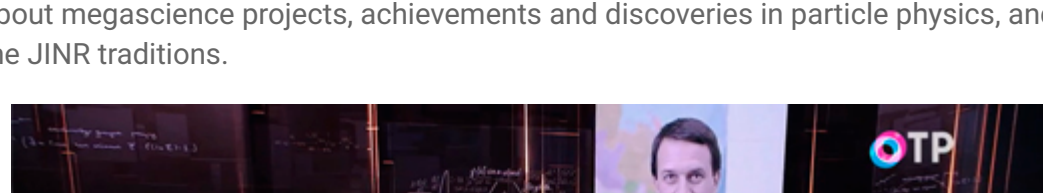
The JINR Press Office is looking for participants of the future Keep Balance photo project dedicated to the Institute's employees riding bicycles. If you would like to become one of the models of the corporate calendar, please contact [uraydysheva@jinr.ru](mailto:uraydysheva@jinr.ru) (Lilia).

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### Media

#### JINR Director on Federal Russian TV channel

Please enjoy a new episode of Sergey Leskov's Academicians programme on the OTR TV channel with participation of JINR Director, Academician of the Russian Academy of Sciences Grigory Trubnikov. In his interview, Grigory Trubnikov talks about megascience projects, achievements and discoveries in particle physics, and the JINR traditions.



[WATCH →](#)

#### 60th meeting of PAC JINR for Particle Physics: video

17 June marked the 60th meeting of the JINR Programme Advisory Committee for Particle Physics. Please watch a video about the event featuring interviews with Deputy Head of the VBLHEP JINR Accelerator Department Anatoly Sidorin and BM@N Collaboration Leader Mikhail Kapishin. Please note that the English subtitles are available in this video.

[WATCH →](#)

#### JINR at science festival

The Atomic Energy Information Centre in Obninsk is hosting the *Actually* science festival. As part of the science fiction lecture series, DLNP JINR Senior Researcher, one of the translators of *The Big Bang Theory* sitcom Mark Shirchenko spoke about physics in science fiction cinema.

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#### Seminar recording

We would like to offer you to watch a recording of the seminar "Effect of radiation on mechanism of defect formation in zirconium diboride nanocrystals" by Samir Samedov.

[WATCH →](#)

#### Video about past 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 #24 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

- **24 – 28 June, XXXI International Seminar on Nonlinear Phenomena in Complex Systems, Minsk, Belarus**
- **1 – 3 July, 6th Meeting of BRICS Working Group on Research Infrastructures and Mega-Science Projects, JINR, Dubna**
- **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**

#### Seminars

- **27 June, 10:30 AM, FLNR, "High-efficiency microwave heating produces record highly charged xenon beams" by Wang Xinyue**
- **27 June, 10:30 AM, DLNP, "Receivers for radio astronomy and dark matter search" by Andrey Pankratov**
- **27 June, 11:00 AM, VBLHEP, "Study of TPC ROC chamber parameters for ROC-BAD system operation at test setup. Results of TPC LV system monitoring" by Youmna Ghoniem, "The MPD-ITS project: Status and Perspectives" by Cesar Ceballos Sanchez**
- **27 June, 3:00 PM, MLIT, "Modelling of mixed radiation fields in spacecraft and on charged particle accelerators" by Ivan Gordееv**
- **28 June, 11:00 AM, FLNP, "Analysis of Aβ-42 Peptide Conformational Dynamics in Lipid Membrane Mimetics: Spectroscopic and Atomistic Study" by Heba Esawi**
- **28 June, 2:30 PM, BLTP, "Current studies in the nuclear cluster physics" by Ivan Rogov**
- **2 July, 3:00 PM, MLIT, "Evaluation of different few-shot learning methods for plant disease classification" by Alexander Uzhinsky**

#### 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**
- **27 June, 7:00 PM, JINR Universal Public Library, Hairin book club**
- **28 June, 6:00 PM, JINR Universal Public Library, English speaking club**
- **28 June, 6:00 PM, JINR Universal Public Library, JINR Cinema Club**
- **28 June, 7:00 PM, JINR Mir Cultural Centre, Rachmaninoff concert**

#### For kids

- **27 June, 6:00 PM, JINR Universal Public Library, "Fiction from the third desk" club meeting**
- **28 June, 6:00 PM, JINR Universal Public Library, Growing up from "Let's READers"**

[ALL JINR EVENTS →](#)