

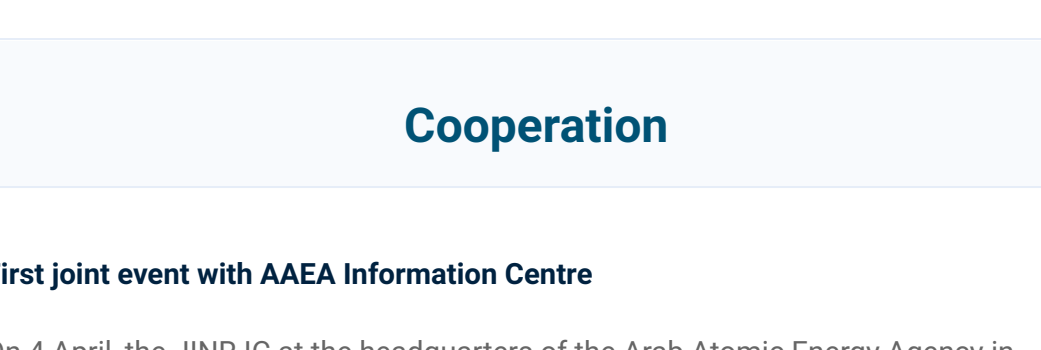


JINR Newsletter #14, 10 April 2024

Dear colleagues and friends,

JINR actively participates in the International Decade of Sciences for Sustainable Development of the United Nations. One of the IDSSD's initiatives is to attract women to science. In order to support it, a discussion on the possibilities of involving scientists from the Women in Nuclear Tunisia Society to JINR scientific research was organized. The meeting became the first joint event based on the JINR Information Centre at the Arab Atomic Energy Agency.

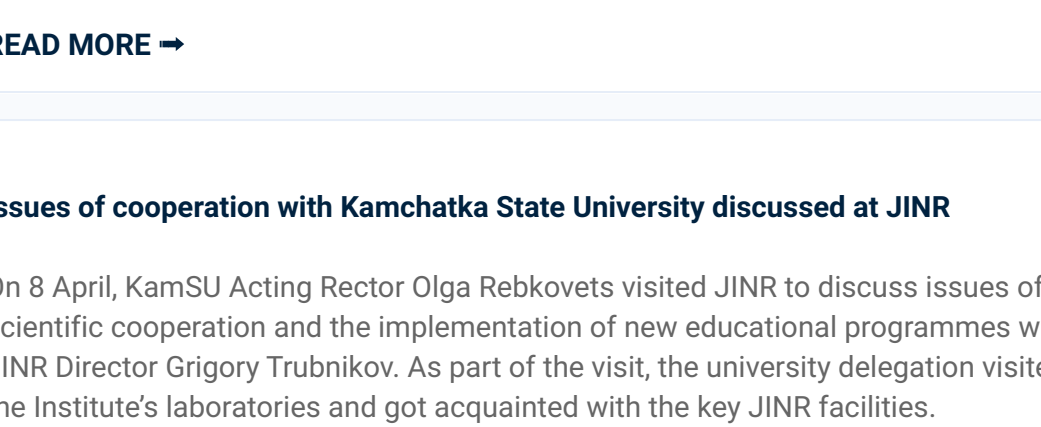
Russia, the Institute's location country, also focuses on the development of the Institute's partnerships. Ties with the Kamchatka Region are strengthening: groups of teachers from the Irkutsk, Saratov, and Voronezh Regions have taken advanced training at JINR. In the latest issue of the JINR Newsletter, you will also learn about applied research at the NICA Complex, upcoming conferences of the Institute, and the poetry competition to mark Cosmonautics Day in Russia.



Cooperation

First joint event with AEA Information Centre

On 4 April, the JINR IC at the headquarters of the Arab Atomic Energy Agency in Tunis hosted a meeting of the Tunisian society of women working in nuclear science, Women in Nuclear Tunisia. The agenda included a brief presentation of the JINR personnel training programme and a scientific lecture.



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Issues of cooperation with Kamchatka State University discussed at JINR

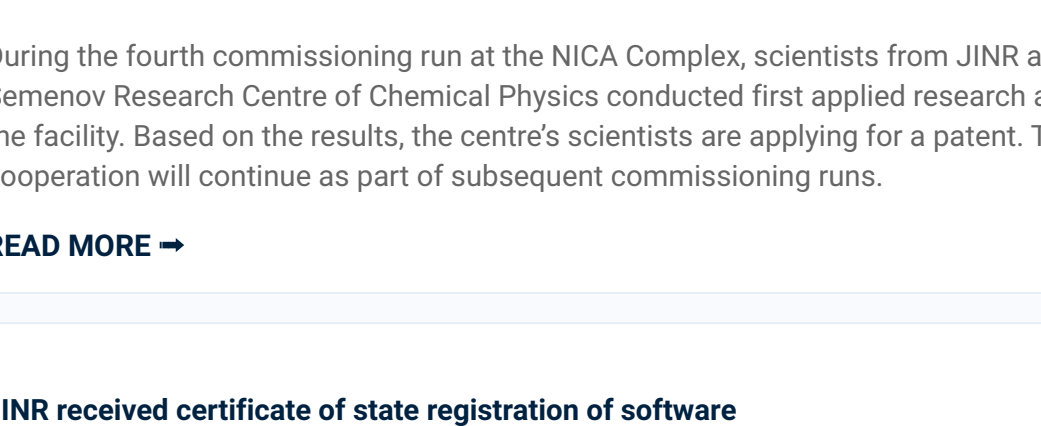
On 8 April, KamsU Acting Rector Olga Rebkovets visited JINR to discuss issues of scientific cooperation and the implementation of new educational programmes with JINR Director Grigory Trubnikov. As part of the visit, the university delegation visited the Institute's laboratories and got acquainted with the key JINR facilities.

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Research

Kinetics of chemical reactions in human brain discussed at LRB JINR seminar

On 3 April, the seminar "Molecular basis of intelligence. Kinetics of chemical reactions in the human brain. Neuroengineering", organized in collaboration with the Scientific Council on Radiobiology of the Russian Academy of Sciences, took place. The speaker was RAS Corresponding Member, Doctor of Chemistry, professor Sergey Varfolomeev.



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NICA will help improve properties of polymer films

During the fourth commissioning run at the NICA Complex, scientists from JINR and Semenov Research Centre of Chemical Physics conducted first applied research at the facility. Based on the results, the centre's scientists are applying for a patent. The cooperation will continue as part of subsequent commissioning runs.

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JINR received certificate of state registration of software

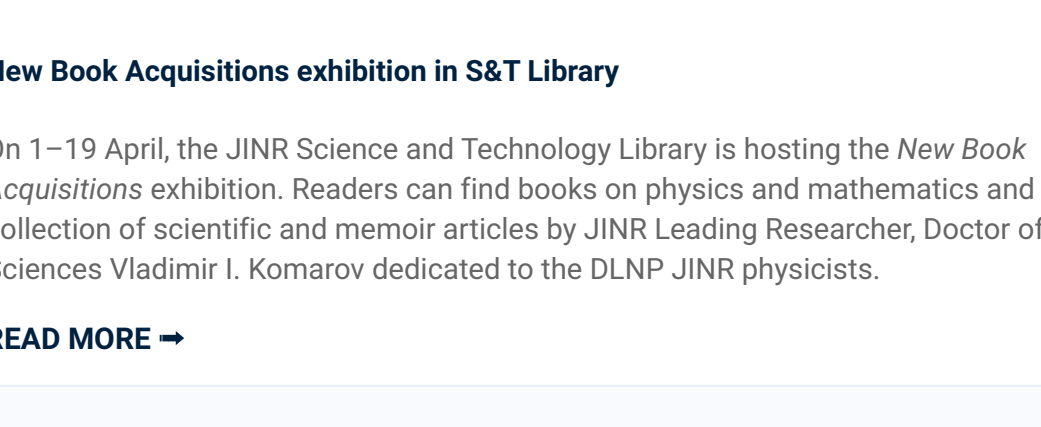
The programme is designed to generate control signals for the current source of the superconducting magnet test bench. The authors are VBLHEP JINR employees Victor Karpinsky, Nikolai Blinov, and Andrey Zorin.

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Academic Degrees

Candidates of Sciences received their diplomas at awarding ceremony

The event took place on 5 April at the JINR International Conference Centre with the participation of the members of the JINR Qualification Committee, guests, and scientific secretaries of the dissertation councils in which the defences took place. Eight scientists received their diplomas.



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Books

Solar Neutrino by Dmitry Naumov in top ten popular science books for children

On 7 April, DLNP Deputy Director Dmitry Naumov presented his book at the Non/fictio/П International Intellectual literature festival in Moscow. The *Solar Neutrino* was included in the category "Ten best educational children's books by Russian authors."

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New Book Acquisitions exhibition in S&T Library

On 1–19 April, the JINR Science and Technology Library is hosting the *New Book Acquisitions* exhibition. Readers can find books on physics and mathematics and a collection of scientific and memoir articles by JINR Leading Researcher, Doctor of Sciences Vladimir I. Komarov dedicated to the DLNP JINR physicists.

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Conferences

Registration for MPQIT-2024 opens

The workshop "Mathematical Problems in Quantum Information Technologies" will take place on 27–28 May at MLIT JINR and online. MPQIT-2024 focuses on mathematical aspects of diverse problems in fundamental and applied quantum technologies. You can register [via the link](#) until 14 May.



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Registration for Alushta-2024 conference opens

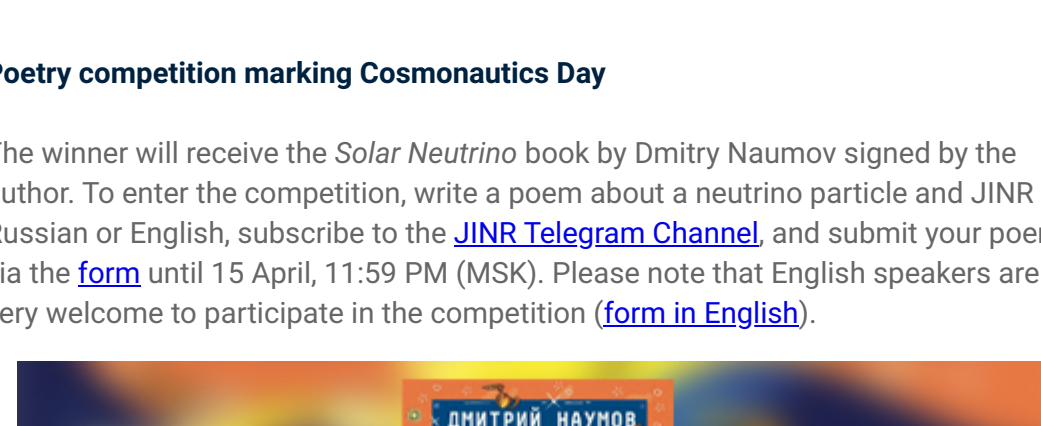
The conference, organized by the Association of Young Scientists and Specialists of JINR (AYSS JINR), will take place on 9–16 June 2024 at the Dubna JINR Resort Hotel in Alushta, the Republic of Crimea. This year, the conference is dedicated to modern achievements in medical physics. You can register [via the link](#) until 21 April.

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Education

Teachers from Irkutsk Region and cities where Rosatom operates finished school at JINR

The school took place on 25–29 March 2024. 23 teachers from the Irkutsk, Saratov, and Voronezh Regions of Russia participated. The event provides an opportunity for teachers to get insights in modern scientific achievements and research infrastructure, ask questions to scientists, and get acquainted with the science city.



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JINR scientists held Particles and Nuclei Day at Moscow State University

The event took place on 30 March at the Faculty of Physics of Moscow State University (MSU). It was organized by the Association of Young Scientists and Specialists of JINR together with the MSU Skobeltzyn Institute of Nuclear Physics and dedicated to the JINR Foundation Day.

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Announcements

Rafting on Dubna river

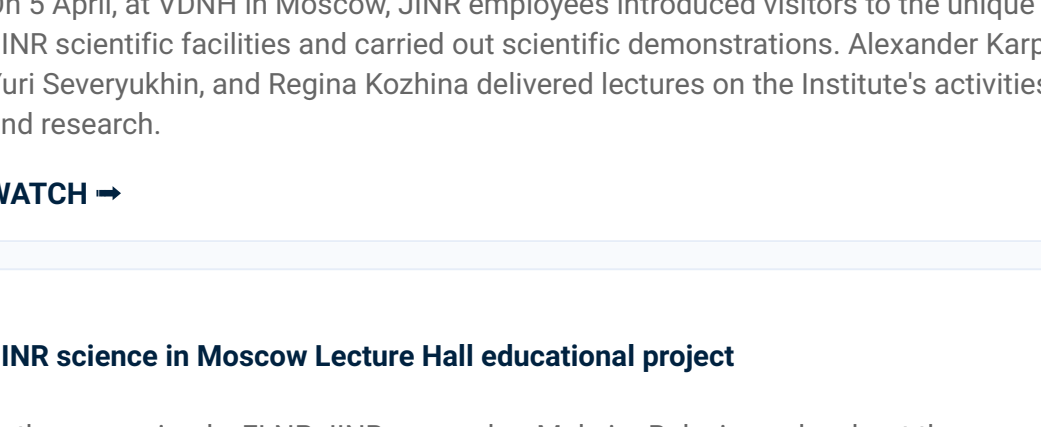
On 14 April, the Association of Young Scientists and Specialists of JINR invites everyone interested to take part in rafting from Verbilki station to Dubna. Read more about the registration [via the link](#).

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Media

Poetry competition marking Cosmonautics Day

The winner will receive the *Solar Neutrino* book by Dmitry Naumov signed by the author. To enter the competition, write a poem about a neutrino particle and JINR in Russian or English, subscribe to the [JINR Telegram Channel](#), and submit your poem via the [form](#) until 15 April, 11:59 PM (MSK). Please note that English speakers are very welcome to participate in the competition ([form in English](#)).



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JINR on Culture TV channel

JINR Director Grigory Trubnikov took part in a new episode of the Agora talk show hosted by Mikhail Shvydkoy about the issues of energy consumption in the modern world.

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JINR on Channel One Russia

FLNR JINR Scientific Secretary Alexander Karpov took part in the episode of the *Schrödinger's Cat* podcast of the Channel One Russia about nuclear physics and discovering new chemical elements.



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JINR takes part in Festival of Professions

On 5 April, at VDNH in Moscow, JINR employees introduced visitors to the unique JINR scientific facilities and carried out scientific demonstrations. Alexander Karpov, Yuri Severyukhin, and Regina Kozhina delivered lectures on the Institute's activities and research.

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JINR science in Moscow Lecture Hall educational project

In the new episode, FLNP JINR researcher Maksim Bulavin spoke about the synthesis of new chemical elements, the fast-neutron reactor, and discoveries made while studying the piece of material that came back from space.

[WATCH →](#)

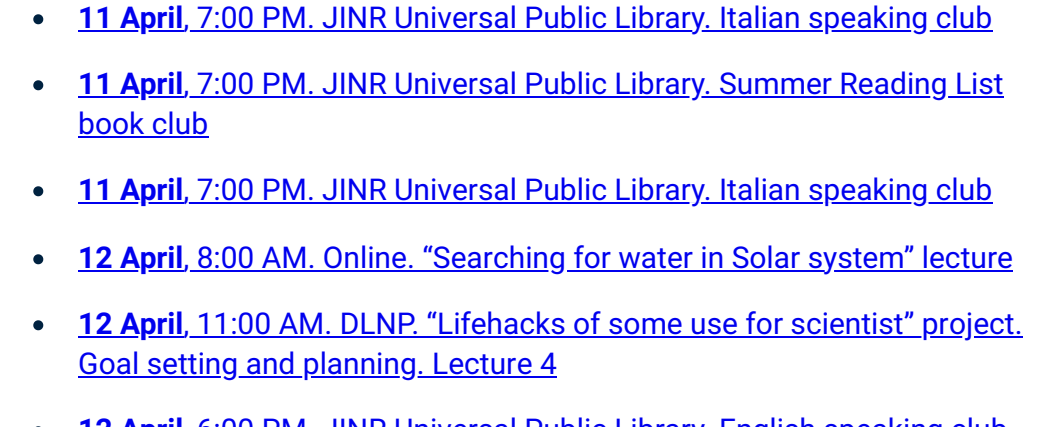
Baikal expedition through photographer's lens

Last week, JINR Director Grigory Trubnikov and INR RAS Deputy Director Grigory Rubtsov discussed the Baikal-GVD project at the *Pristine Russia Festival*. We invite you to watch the video prepared for the talk featuring an interview with DLNP JINR Senior Researcher Bair Shaibonov, a participant of the expedition and a photographer.

[WATCH →](#)

Diary of participant of Baikal-GVD expedition

The expedition to deploy the Baikal-GVD Deep Underwater Neutrino Telescope continues. Every day the project participant, DLNP JINR Senior Researcher Bair Shaibonov, writes notes about the progress of work on Lake Baikal. Please enjoy the expedition news and photos.



[DAY 48 →](#)

[DAY 49 →](#)

[DAY 50 →](#)

[DAY 51 →](#)

VBLHEP seminar recording

We offer you to watch a recording of the seminar "Study of π^+ and K^+ meson production processes in 3.2 AGeV argon-nucleus interactions in BM@N Experiment at Nuclotron" by Vasilii Plotnikov.

[WATCH →](#)

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 #13 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

- **11–12 April** [Workshop of Consortium for IT Support for Megascience Research Infrastructure](#)
- **14–18 April** [30th International Seminar on Interaction of Neutrons with Nuclei: Fundamental Interactions & Neutrons Nuclear Structure. Ultracloud Neutrons. Related Topics](#) (ISINN-30)
- **15–16 April** [JINR Spring School of Information Technologies](#)

Seminars

- **11 April** 2:30 PM, BLTP, "Quiver Yangian and representations on temporal variables" by Nikita Tselousov
- **12 April** 11:00 AM, FLNP, "Optimisation of process of manufacturing solid frozen balls from hydrocarbons for cryogenic moderators" by Ivan Litvak
- **16 April** 4:00 PM, BLTP, "Quantum Dots: Nanotechnology in Quantum Colours" by Stanko Tomić

Culture

- **21 March – 21 April**, Daily from 1:00 to 7:00 PM (except Monday), JINR Cultural Centre "Mir", "Enchanted by science" exhibition
- **11 April**, 12:00 PM, JINR University Centre, "NICA: back to future" lecture
- **11 April**, 7:00 PM, JINR Universal Public Library, Italian speaking club
- **11 April**, 7:00 PM, JINR Universal Public Library, Summer Reading List book club
- **11 April**, 7:00 PM, JINR Universal Public Library, Italian speaking club
- **12 April**, 8:00 AM, Online, "Searching for water in Solar systems" lecture
- **12 April**, 11:00 AM, DLNP, "Lifehacks of some use for scientists" project. Goal setting and planning. Lecture 4
- **12 April**, 6:00 PM, JINR Universal Public Library, English speaking club
- **12 April**, 7:00 PM, JINR Scientists' Club, Classical music concert
- **13 April**, 2:00 PM, JINR Universal Public Library, Popular science lecture in Blokhinka
- **13–14 April**, 1:30 PM, 12:00 PM, JINR Universal Public Library, Test of classes for parents on tutoring games
- **13 April**, 6:00 PM, JINR Universal Public Library, Guttenberg's Smoking Room meeting
- **16 April**, 7:00 PM, JINR Cultural Centre "Mir", "Exploring music through words: literary and musical composition"

Sports

- **13 April**, 9:00 AM, JINR Nauka Stadium, Cup of Science 2024 volleyball tournament
- **14 April**, 11:00 AM, JINR Nauka Stadium, JINR Open Chess Tournament

For Kids

- **12 April**, 4:00 PM, JINR Universal Public Library, "Times and epochs" children's history project
- **13 April**, 1:00 PM, JINR Universal Public Library, Meeting of debating club for teenagers
- **13 April**, 4:00 PM, JINR Museum of History of Science and Technology, IX Mendeleev readings
- **13 April**, 5:00 PM, 6:00 PM, JINR Universal Public Library, "Let's READers" and Growing up from "Let's READers"

[ALL JINR EVENTS →](#)