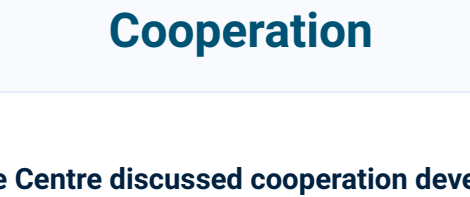


## JINR Newsletter #16, 24 April 2024

Dear colleagues and friends,

JINR representatives held a number of international meetings on cooperation development. Thus, projects in nuclear medicine, medical engineering, radiochemistry, and personnel training were discussed with the management of the Cuban Isotope Centre (CENTIS). The issues of radiation effect on polymers were considered at the JINR Infocentre at the Arab Atomic Energy Agency together with the Women in Nuclear Tunisia Association. In Russia, JINR research in nuclear materials science was presented to the scientific youth of Kazan.

In the latest issue of the JINR Newsletter you will also find news about the next Collaboration Meeting of the MPD Experiment at NICA, the youth conference on fundamental physics and applied technology, and the results of the spring IT school.



### Cooperation

#### JINR and Cuban Isotope Centre discussed cooperation development

On 19 April, CENTIS Deputy Directors Mr. Rolando Agustin Serra Aguila and Mr. Jorge Caridad Cruz Arencibia visited JINR. The delegation members visited JINR laboratories and met with the Institute's leadership to discuss issues of cooperation in nuclear medicine, medical engineering, radiochemistry, and personnel training.



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#### Issues of radiation effect on polymers discussed at AAEA Infocentre

On 22 April, a FLNR JINR researcher Ulyana Pinaeva presented a report "Radiation-induced modification of polymers for life sciences and environmental applications" at the webinar organized by the Arab Atomic Energy Agency, the Women in Nuclear Tunisia Association, and JINR.

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#### JINR research in nuclear physics materials science presented in Kazan

On 17–19 April, a JINR delegation visited the Kazan Federal University and the Kazan Scientific Centre of the Russian Academy of Sciences to discuss the development of cooperation. At the University, JINR researchers held a seminar for students aimed at promoting the JINR-based Department of Nuclear Physics Materials Science.



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### NICA

#### 13th Collaboration Meeting of MPD Experiment at NICA Facility continues at JINR

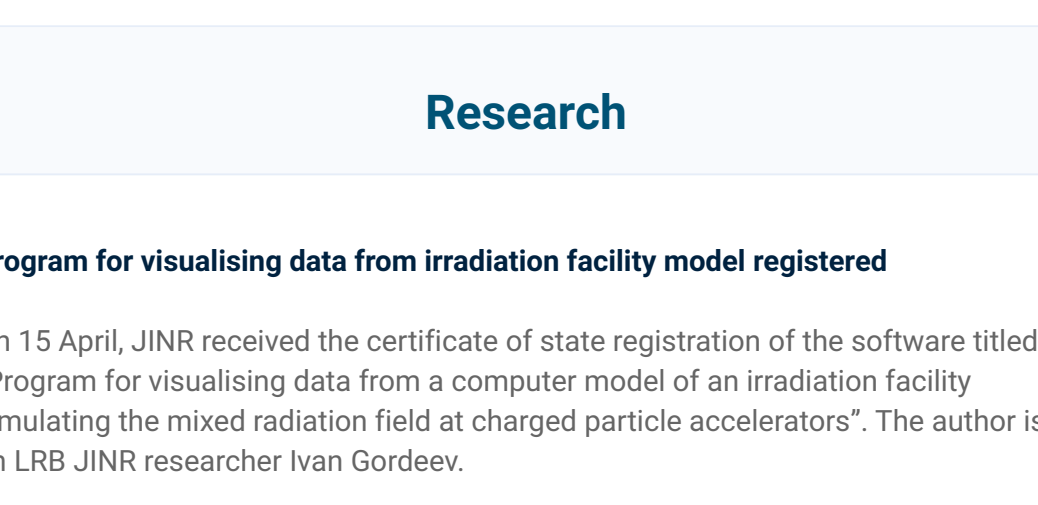
The event is taking place on 23–25 April at VBLHEP. Participants are listening to reports on the status of the NICA Accelerator Complex and the Multi-Purpose Detector (MPD). Plans regarding the commissioning of the complex will be considered. In addition, participants will discuss new ideas for the use of the MPD.

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### Conferences

#### Third All-Russian Conference "Fundamental Physics and Applied Technologies" takes place

The conference began on 22 April at the Engineering Physics Institute of Dubna State University. During the first day's plenary session, participants heard reports by representatives of the enterprises of the innovative territorial cluster of nuclear and nanotechnology and the Dubna Special Economic Zone.



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#### Results of Spring IT School

On 15–16 April, MLIT hosted the second stage of the JINR IT School for students. Participants made reports on their work in JINR projects under the scientific leadership of VBLHEP, DLNP, LRB, and MLIT researchers. Ten authors of best reports received awards.

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### Research

#### Program for visualising data from irradiation facility model registered

On 15 April, JINR received the certificate of state registration of the software titled "Program for visualising data from a computer model of an irradiation facility simulating the mixed radiation field at charged particle accelerators". The author is an LRB JINR researcher Ivan Gordeev.

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### Books

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

From 22 April to 17 May 2024, the JINR Science and Technology Library is hosting the *New Book Acquisitions* exhibition. Visitors can find books on physics by JINR researchers, books commemorating outstanding scientists, academician Ilya M. Frank and mathematician Alexey A. Lyapunov, and a wide variety of monographs.

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#### Scientific and memoir articles by DLNP researcher

The JINR Publishing Department has issued a collection of scientific and memoir articles by DLNP JINR Chief Researcher, Doctor of Sciences Vladimir I. Komarov, "Physics in the circle of friends and colleagues". The book is dedicated to the 70th anniversary of the launch of the first accelerator in Dubna.

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#### Book by JINR researcher

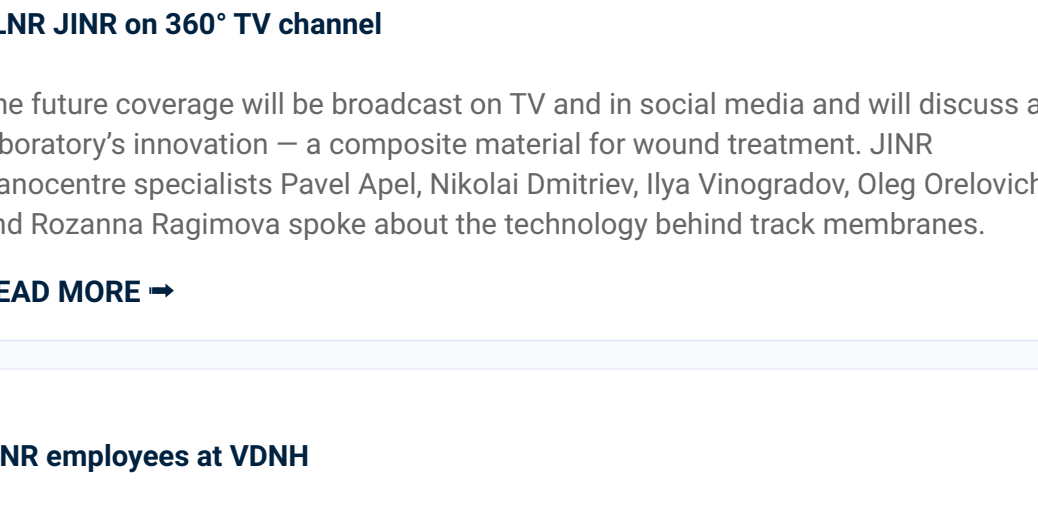
The JINR Publishing Department has issued a book by a JINR researcher Basar M. Sabirov, "Muons and Nuclei, or The Adventures of the Muon in the Nucleus".

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### Announcements

#### MSU Branch in Dubna announces enrolment for Master's courses

On 20 June 2024, the call for applications will open for the Master's programme at the JINR-based Moscow State University branch in Dubna. There are two courses available: physics of elementary particles and fundamental and applied nuclear physics.



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#### Summer educational programme for schoolchildren

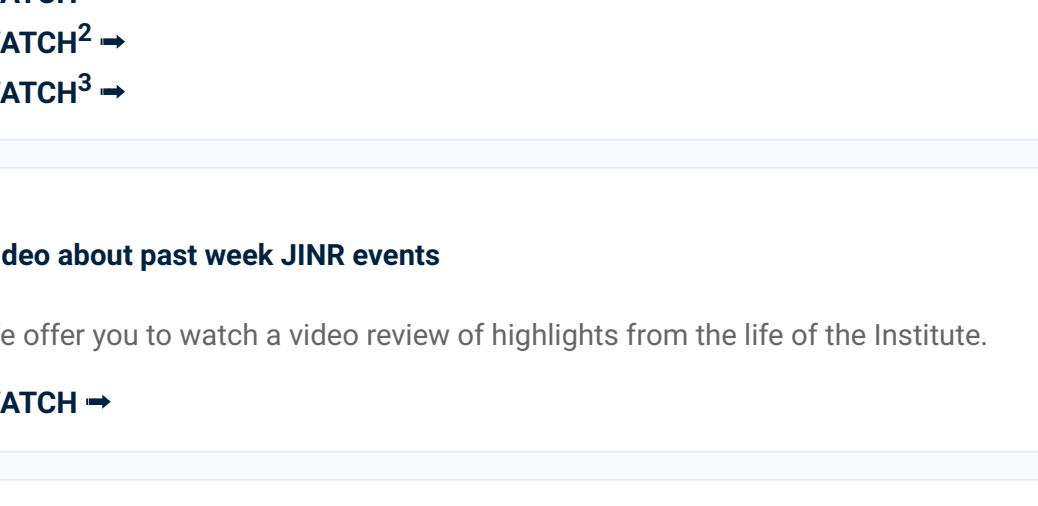
Institute of Physics of the Kazan Federal University invites schoolchildren of 6 to 10 grades interested in physics, mathematics, and IT to the *Quantum* summer educational programme. Registration is available [via the website](#).

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### Media

#### Culture TV channel documentary commemorating Mikhail Meshcheryakov

In the film by Vladimir Meletin, family members of Mikhail Meshcheryakov and researchers of the Joint Institute talk about one of the founding fathers of JINR and Dubna.



[WATCH →](#)

#### JINR researchers on Russia-1 TV channel

"Cardiogram for the planet: scientific innovations for predicting earthquakes" – this is the title of a coverage by the Russia-1 national TV channel about the precision laser inclinometers created at JINR. DLNP JINR employees Karen Bunyatov and Mikhail Lyablin explained how the devices can be used to predict earthquakes.

[WATCH →](#)

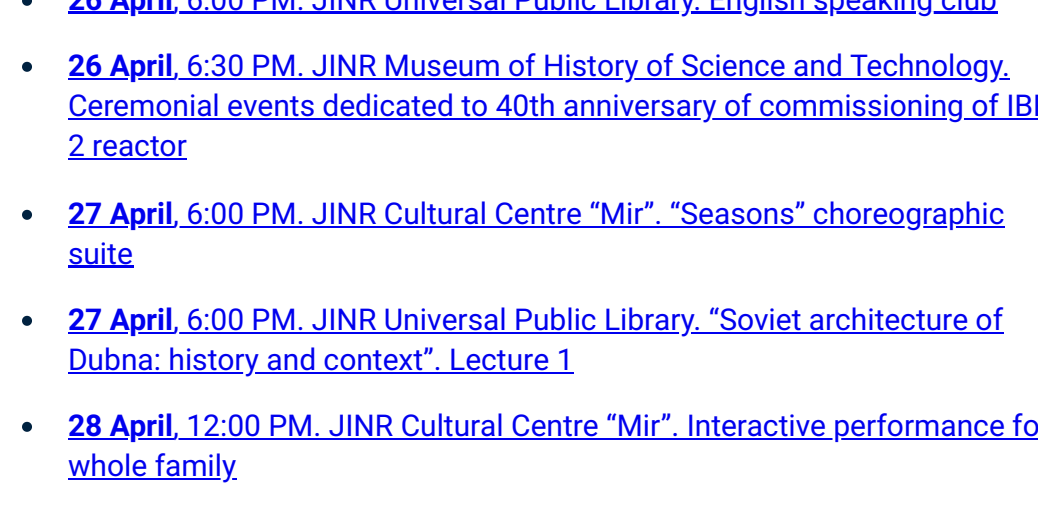
#### FLNR JINR on 360° TV channel

The future coverage will be broadcast on TV and in social media and will discuss a laboratory's innovation – a composite material for wound treatment. JINR Nanocentre specialists Pavel Apel, Nikolai Dmitriev, Ilya Vinogradov, Oleg Orelovich, and Rozanna Ragimova spoke about the technology behind track membranes.

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#### JINR employees at VDNH

On 13 April, the Association of Young Scientists and Specialists of JINR organized a trip to VDNH for the Institute's employees. Participants visited the *ATOM* pavilion dedicated to the history of nuclear science and engaged in other activities at the *Russia* exhibition.



[WATCH →](#)

#### Results of JINR poetry competition

After the voting among the subscribers of our website, the poem by Sergei Merts from VBLHEP JINR claimed a landslide victory. We congratulate Sergei and sincerely thank all the participants of the competition for their creativity!

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#### JINR researchers at JUNO Experiment

Please enjoy videos and photos by Head of the DLNP JINR Sector of Experimental Methodology Nikolay Anfimov from the Jiangmen Underground Neutrino Observatory.

[WATCH<sup>1</sup> →](#)

[WATCH<sup>2</sup> →](#)

[WATCH<sup>3</sup> →](#)

#### 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 #15 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

- [23 – 25 April. 13th Collaboration Meeting of the MPD Experiment at the NICA Facility.](#)

#### Seminars

- [25 April, 11:00 AM, VBLHEP. "Determination of natural frequencies of ultralight sensor support trusses of silicon tracking systems" by Maribel Herrera Barrera](#)
- [26 April, 10:00 AM, VBLHEP. "Colliders" lecture series. Review by Valery Lebedev](#)
- [26 April, 11:00 AM, MLIT. "Capabilities of the License management system developed at MLIT" by Alexander Yakovlev](#)
- [26 April, 11:00 AM, FLNP. "Calculation substantiations of design solutions for the reactivity modulator and the vessel of the NEPTUNE Pulsed Periodic Reactor" by Nikita Kokorin](#)

#### Culture

- [23 April – 19 May. Daily from 1:00 to 7:00 PM \(except Monday\). JINR Cultural Centre "Mir". Fine arts exhibition](#)
- [25 April, 7:00 PM. JINR Universal Public Library. Summer Reading List book club](#)
- [25 April, 8:00 AM. JINR University Centre. "Neural networks for physics" lecture](#)
- [26 April, 11:00 AM, DLNP. "Communication strategy of scientific organization: fifth wheel?" by Irek Suleymanov from the "Lifehacks of some use for scientist" project](#)
- [26 April, 6:00 PM. JINR Universal Public Library. English speaking club](#)
- [26 April, 6:30 PM. JINR Museum of History of Science and Technology. Ceremonial events dedicated to 40th anniversary of commissioning of IBR-2 reactor](#)
- [27 April, 6:00 PM. JINR Cultural Centre "Mir". "Seasons" choreographic suite](#)
- [27 April, 6:00 PM. JINR Universal Public Library. "Soviet architecture of Dubna: history and context". Lecture 1](#)
- [28 April, 12:00 PM. JINR Cultural Centre "Mir". Interactive performance for whole family](#)

#### For Kids

- [25 April, 5:00 PM. JINR Universal Public Library. Little Owls children's book club](#)
- [26 April, 4:00 PM. JINR Universal Public Library. "Times and epochs" children's history project](#)
- [27 April, 5:00 PM. JINR Universal Public Library. Let's READers](#)

[ALL JINR EVENTS →](#)