



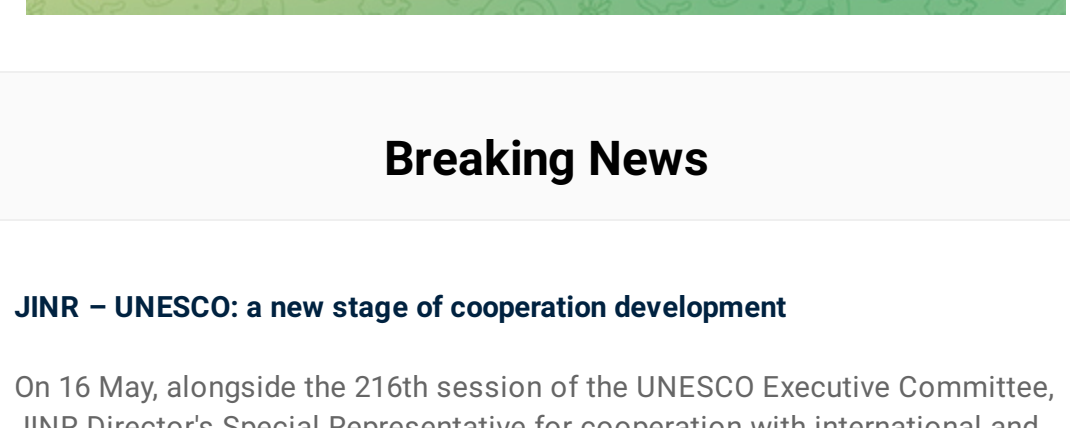
JINR Newsletter #19, 18 May 2023

Dear colleagues and friends,

The dynamic life of the Joint Institute has brought a lot of bright news over the past week. One of the JINR leaders met with new leaders of the UNESCO science unit in Paris at the 216th session of the UNESCO Executive Council. JINR scientists received two awards at once at the 15th European Exhibition of Creativity and Innovation. The first stage of the JINR International Student Practice for young scientists from Egypt began. And in St. Petersburg, there is another collaboration meeting of the BM@N Experiment.

New books and publications, bright research, and a whole range of social activities are waiting for you as well in this issue of the JINR Newsletter.

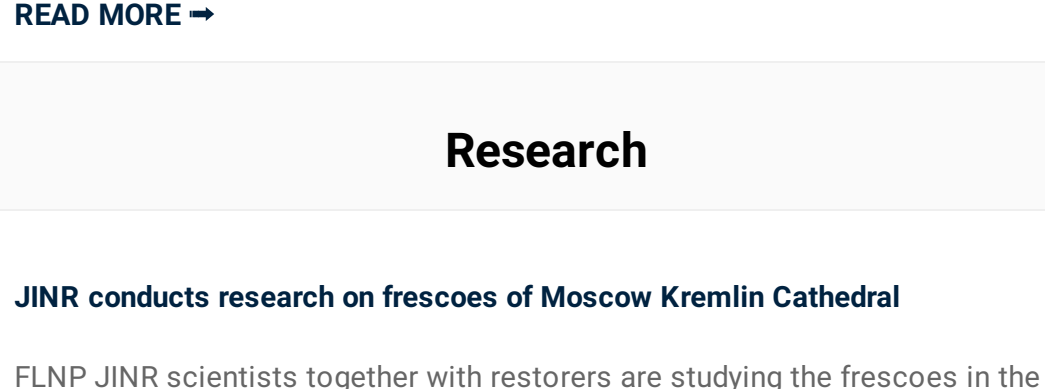
JINR Press Office



Breaking News

JINR – UNESCO: a new stage of cooperation development

On 16 May, alongside the 216th session of the UNESCO Executive Committee, JINR Director's Special Representative for cooperation with International and Russian scientific organizations Boris Sharkov met with leaders of the UNESCO science unit. Leaders of the UNESCO unit expressed interest in participating in key JINR events and considered JINR as a valuable partner.

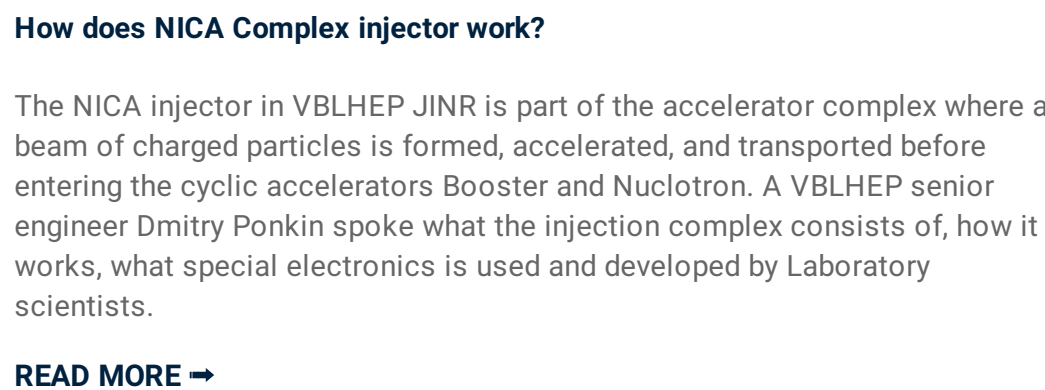


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Research

JINR conducts research on frescoes of Moscow Kremlin Cathedral

FLNP JINR scientists together with restorers are studying the frescoes in the Cathedral of the Dormition of the Moscow Kremlin. This will help determine the original colour of the frescoes and carry out their digital reconstruction. In addition, the work will allow specialists to verify procurement documents of the 17th century.



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How does NICA Complex injector work?

The NICA injector in VBLHEP JINR is part of the accelerator complex where a beam of charged particles is formed, accelerated, and transported before entering the cyclic accelerators Booster and Nuclotron. A VBLHEP senior engineer Dmitry Ponkin spoke what the injection complex consists of, how it works, what special electronics is used and developed by Laboratory scientists.

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Awards

FLNP scientists got two medals at international exhibition

Among the winners of the 15th European Exhibition of Creativity and Innovation Euroinvent-2023 are young FLNP JINR scientists Inga Zinicovskaia, Nikita Yushin, Dmitry Grozdov, and Alexandra Peshkova. The researchers won two awards, namely a gold medal for work on purification of soils contaminated with heavy metals and a medal "For outstanding achievements" for work on nanotoxicology.

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Conferences

10th Collaboration Meeting of the BM@N Experiment started

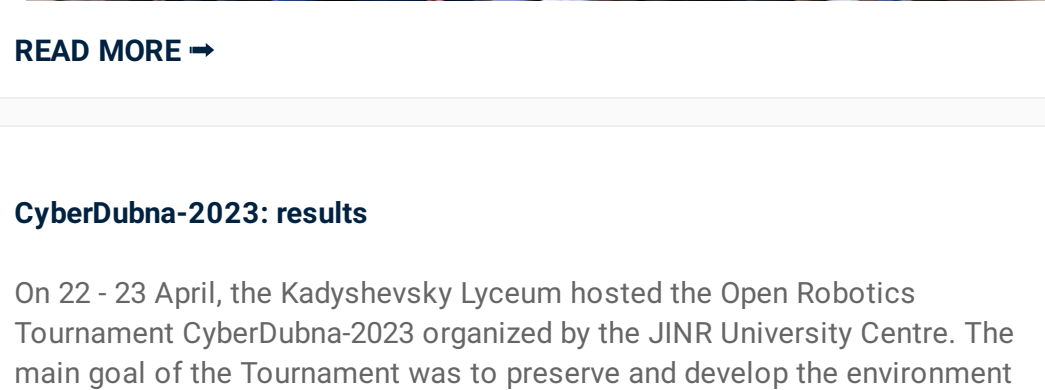
These days, the 10th Collaboration Meeting of the BM@N Experiment is taking place at Saint Petersburg University. Participants from Bulgaria, Israel, and Russia are considering results of the first physical experiment that a team of the project conducted during the 4th commissioning run at the NICA Complex. They are also discussing further plans of the collaboration.

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Education

Young scientists from Egypt came to JINR for annual practice

The International Students Practice of the JINR Visit Centre for young scientists from Egypt started at JINR yesterday. Within three weeks, trainees will listen to lectures, visit facilities, but most importantly, they will carry out scientific projects under the guidance of JINR specialists.



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CyberDubna-2023: results

On 22 - 23 April, the Kadyshesky Lyceum hosted the Open Robotics Tournament CyberDubna-2023 organized by the JINR University Centre. The main goal of the Tournament was to preserve and develop the environment encouraging creativity in the younger generation in the fields of design and robotics.

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JINR Community

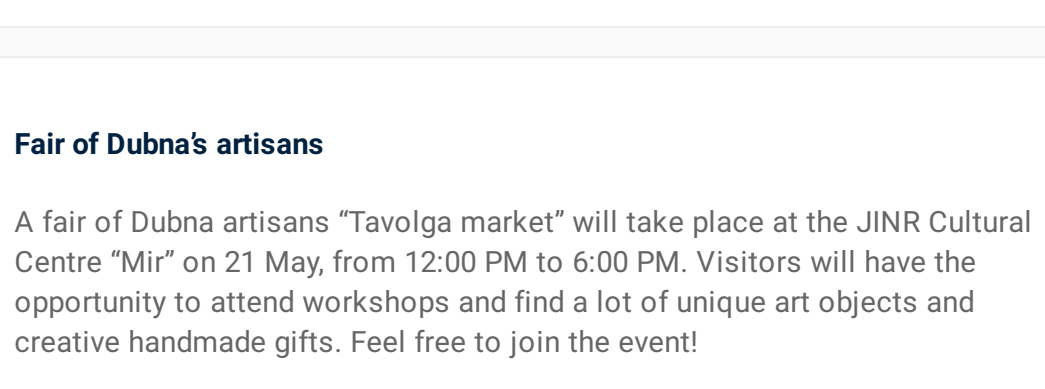
Exhibition "Bulgaria's contribution to Slavic cultural heritage" opened at JINR Cultural Centre "Mir"

A photo exhibition "Bulgaria's contribution to the Slavic cultural heritage" opened at the JINR Cultural Centre "Mir" on 11 May. It is dedicated to the Day of Slavic Writing and Culture. View photocopies of ancient documents, photographs of frescoes of churches and monasteries at the Centre on 5 - 29 May (except Monday) from 1:00 to 7:00 PM.

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JINR Cinema Club

This Friday, on 19 May, at 6:00 PM, you can enjoy watching a fascinating film "The Great Beauty" (2013). All are kindly invited! Please note that the JINR Cinema Club will be held at the JINR Universal Public Library.



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Fair of Dubna's artisans

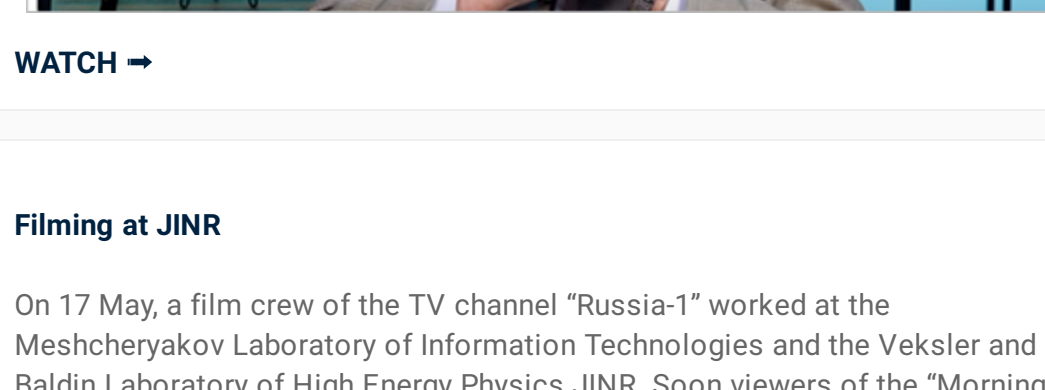
A fair of Dubna artisans "Tavolga market" will take place at the JINR Cultural Centre "Mir" on 21 May, from 12:00 PM to 6:00 PM. Visitors will have the opportunity to attend workshops and find a lot of unique art objects and creative handmade gifts. Feel free to join the event!

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Media

Interview with Yuri Oganessian

The Armenia News YouTube channel has published an interview with FLNR JINR Scientific Leader Yuri Oganessian. Watch the video to find out whether it is possible to discover chemical elements endlessly, how Yuri Tsolakovich sees the profession of a physicist, and what is the role of nuclear physics in the modern world.



[WATCH →](#)

Filming at JINR

On 17 May, a film crew of the TV channel "Russia-1" worked at the Meshcheryakov Laboratory of Information Technologies and the Veksler and Baldin Laboratory of High Energy Physics JINR. Soon viewers of the "Morning of Russia" programme will see a coverage about the application to detect diseases of indoor and agricultural plants, as well as about applied research at NICA.

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Video about exhibition opening

Please watch a video about a festive opening of the exhibition "Bulgaria's contribution to the Slavic cultural heritage".

[WATCH →](#)

DLNP seminar records

We kindly invite you to watch records of the seminar in memory of Yulian Budagov and "Research of abnormal events in the TUC Experiment" by Maria Lavrova.

[WATCH seminar in memory of Yulian Budagov →](#)

[WATCH seminar by Maria Lavrova →](#)

JINR Weekly Newspaper issued

A new issue of the JINR Weekly Newspaper #18 has been published. Please note that you can read an English version on the JINR Newspaper's website.

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Publications

Effect of ¹³²Xe²⁷⁺ ions irradiation on critical parameters of HTSC tapes based on GdBa₂Cu₃O_{7-x}

The JINR Publishing Department has released a preprint "Effect of ¹³²Xe²⁷⁺ ions irradiation on the critical parameters of the HTSC tapes based on GdBa₂Cu₃O_{7-x}" P14-2022-68. The authors are Ludmila Antonova (Moscow Polytechnic University), Vera Semina (FLNR JINR), and Alexey Troitskiy (Prokhorov General Physics Institute).

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Announcements

MEPHI reunion 2023

On 20 and 21 May, NRNU MEPhI will host a traditional reunion of the institute. It is a bright event with competitions, a concert, and a meeting with university leaders. Employees wishing to attend the event can do it as part of an organized group from JINR.

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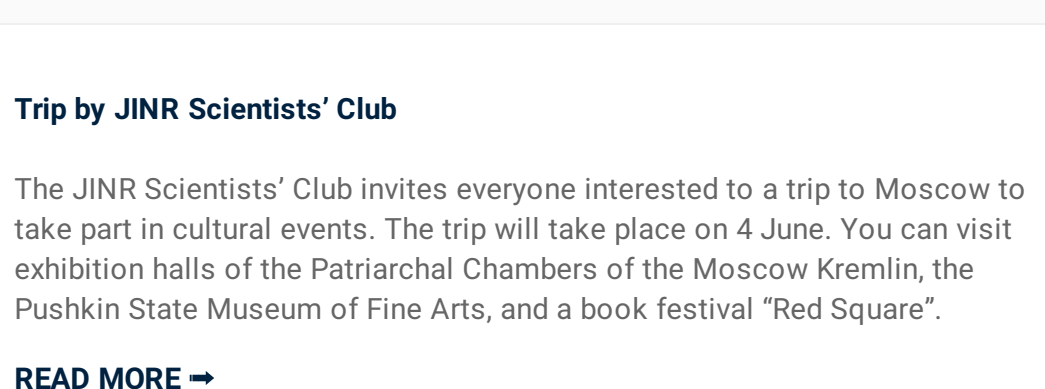
Physics Day at MSU

Physics Day is a bright event with competitions, a concert and, of course, evening fireworks! Employees wishing to attend the Physics Day can do it as part of an organized group from JINR.

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Night of Museums 2023

On 20 May, at 1:30 PM, the Museum of History of Science and Technology of JINR invites everyone interested to the "Night of Museums". The programme includes interesting excursions, an orienteering quest, experiments, and intellectual games!



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Trip by JINR Scientists' Club

The JINR Scientists' Club invites everyone interested to a trip to Moscow to take part in cultural events. The trip will take place on 4 June. You can visit exhibition halls of the Patriarchal Chambers of the Moscow Kremlin, the Pushkin State Museum of Fine Arts, and a book festival "Red Square".

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Sports

Dubna table tennis championship

On 16 May, the Dubna table tennis championship among physical culture teams was held at the JINR Stadium "Nauka". The JINR team took the first place!

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Upcoming Events

Advisory Bodies

- [19 May, JINR Science and Technology Council meeting, International Conference Centre](#)

Conferences

- [14 – 19 May, 10th Collaboration Meeting of the BM@N Experiment at the NICA Facility, St. Petersburg \(mixed format\)](#)

Practices

- [15 May – 2 June, International Students Practice, Stage 1 \(Egypt\), JINR, Dubna](#)

Seminars

- [18 May, at 11:00 AM, FLNP, "Boron-containing plastic composites as neutron shielding material for additive manufacturing processes" by Vladislav Tamavich and Yuri Chetverikov](#)
- [18 May, at 12:30 PM, BLTP, "Mathematical and physical aspects of null \(massless\) cosmic strings" by Dmitry Fursaev](#)
- [18 May, at 3:30 PM, FLNR, "Isotope ⁷He and its environs" by Mikhail Golovkov](#)
- [19 May, at 11:30 AM, VBLHEP, "NICA: from the concept of the collider to its implementation" by Valery Lebedev](#)
- [19 May, at 2:30 PM, BLTP, "Isoscalar giant monopole resonance in the Ca isotope chain" by Nikolay Arsenyev](#)
- [22 May, at 11:00 AM, BLTP, "Thermal Hall effects in quantum magnets" by Pavel Maksimov](#)
- [22 May, at 3:00 PM, MLIT, Seminar of participants of XII Scientific Conference of Young Scientists and Specialists "Alushta-2023"](#)
- [22 May, at 11:00 AM, MLIT, "Software development for microstrip tracking detectors of the BM@N experiment" by Dmitry Baranov, "The development of a new conditions database prototype for ATLAS within the CREST project" by Mikhail Mineev, and "Numerical study of the electron hydration process and the gas condensate filtration through a porous medium" by Alina Volokhova](#)
- [25 May, at 11:00 AM, BLTP, "Interaction of ultrashort electromagnetic field pulses with polyatomic and dynamical systems" by Ksenia Makarova](#)

Culture

- [5 – 29 May, daily from 1:00 to 7:00 PM, except Mondays, JINR Cultural Centre "Mir", Bulgaria's contribution to cultural heritage of Slavs](#)
- [18 May, at 7:00 PM, JINR Universal Public Library, Book club "Hairpin", discussing a book "Slym" by Tatyana Tolstaya](#)
- [19 May, at 4:00 PM, School No. 9, XXVIII Dubna Open Physics and Mathematics Olympiad](#)
- [19 May, at 6:00 PM, JINR Universal Public Library, "Talkative" English speaking club meeting](#)
- [19 May, at 6:00 PM, JINR Universal Public Library, JINR Cinema Club](#)
- [20 May, at 1:30 PM, Museum of History of Science and Technology of JINR, Night of Museums 2023](#)
- [20 May, at 6:00 PM, JINR Universal Public Library, "Guttenberg's Smoking Room" meeting](#)
- [21 May, at 12:00 PM, JINR Cultural Centre "Mir", Fair of Dubna's artisans](#)
- [21 May, at 3:00 PM, JINR Cultural Centre "Mir", Recital of dance studio "Art Laboratory"](#)
- [25 May, at 7:00 PM, JINR Universal Public Library, Book club "Summer Reading List", discussing a book "War with the Newts" by Karel Capek](#)

For Kids

- [20 May, at 4:00 PM, JINR Universal Public Library, Meetings "Engineering" and "Let's READERS"](#)

Sports

- [20 May, at 1:00 PM, Archimedes Swimming Pool, City swimming championship](#)

ALL JINR EVENTS →