

JINR Newsletter #10, 16 March 2023

Dear colleagues and friends,

The Institute held several coordination meetings with the partners: The Joint Coordination Committee on Cooperation with Serbia and the meeting with the Arab Atomic Energy Agency (AAEA) took place.

This issue of the JINR Newsletter includes scientific publications, the course of the Baikal expedition, acquaintance with JINR scientists, as well as information about interesting past and upcoming events.

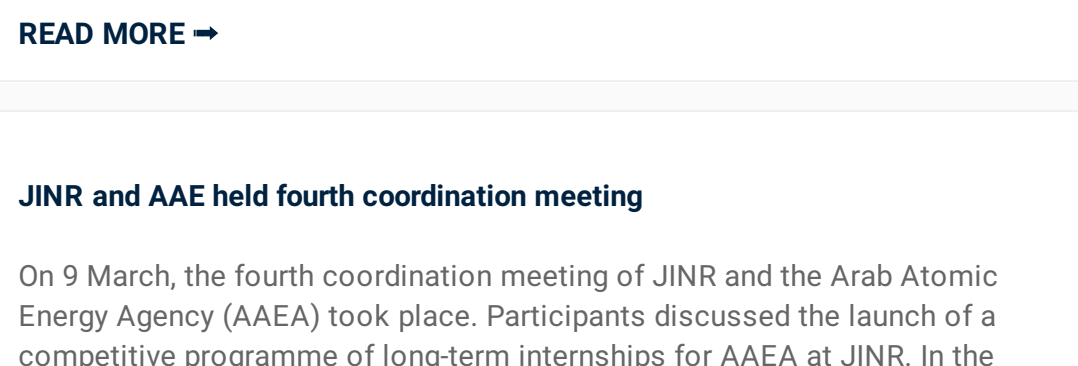
JINR Press Office



Cooperation

Serbia- JINR: eighth meeting of Cooperation Committee took place in Belgrade

The regular eighth meeting of the Joint Coordination Committee on Cooperation (JCC) was dedicated to the celebration of the 75th anniversary of the Vinča Institute and took place on 23 February. The JINR delegation led by Vice-Director Vladimir Kekelidze worked in Belgrade on 22–24 February.



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JINR and AAEA held fourth coordination meeting

On 9 March, the fourth coordination meeting of JINR and the Arab Atomic Energy Agency (AAEA) took place. Participants discussed the launch of a competitive programme of long-term internships for AAEA at JINR. In the future, the AAEA may become the first international organization where the JINR Information Centre will open.

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JINR Information Centres

Strengthening ties between TPU and JINR

On 14 March, JINR specialists gave an open seminar at Tomsk Polytechnic University for Bachelor and Master students, postgraduates. The seminar was dedicated to computing in high-energy physics and the NICA Collider. JINR specialists spoke about prospects of the megascience project and answered questions from the audience.

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Awards

Medal "75th anniversary of Phystech" to JINR employee

Georgy Shelkov, a leading researcher of the Laboratory of Nuclear Problems (LNP), was awarded the jubilee medal "75th anniversary of Phystech". The presentation took place on 4 March at the university campus in Dolgoprudny.

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JINR Community

Interview with youngest PhD candidate at JINR

A BLTP junior researcher Evgeny Mandykin defended his thesis at the end of 2022. At the moment, he is the youngest PhD candidate at JINR, he is 27 years old. Evgeny shared why he decided to defend a dissertation and how it affected his career.

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Female Face of Science

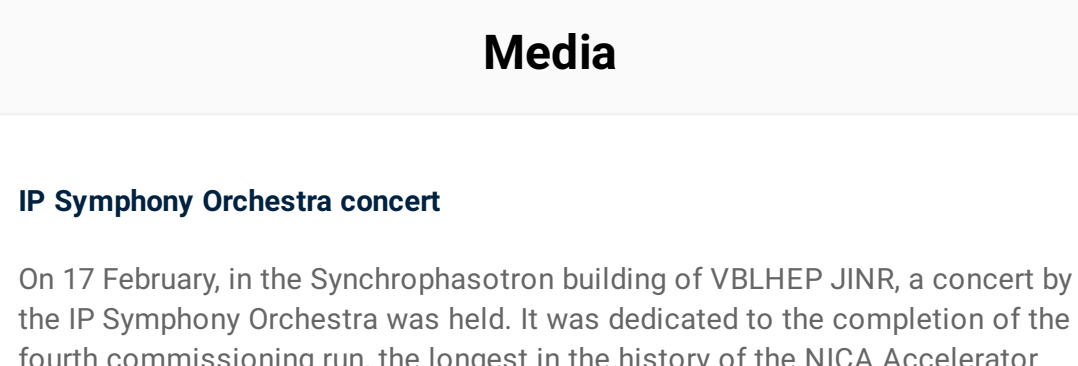
In honour of the International Day of Women and Girls in Science, the Laboratory of Nuclear Problems (LNP) prepared a series of publications about female researchers working at the Laboratory. The following articles are about a DLNP researcher Svetlana Vasina and a senior researcher Zoya Karpova.

[READ about Svetlana Vasina →](#)

[READ about Zoya Karpova →](#)

JINR interactive exhibition

From 20 to 24 March, Institute's employees will give tours of the interactive exhibition "JINR basic facilities" at the JINR Cultural Centre "Mir". Admission is free, but registration is required.



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Education

Students from Bauman Moscow State Technical University visited JINR

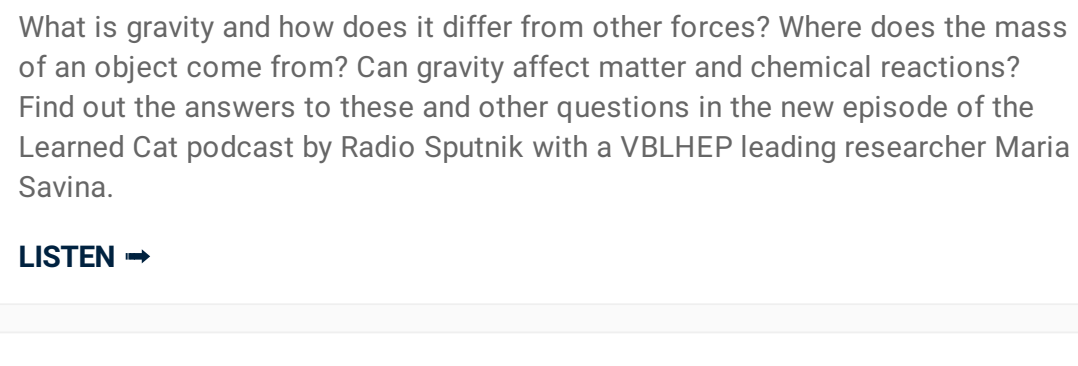
On 2, 3, and 6 March, students from BMSTU visited the Laboratory of High Energy Physics. They listened to lectures on the activities of JINR, as well as visited guided tours of the VBLHEP facilities, such as the BM@N Experiment, the MPD Detector, etc.

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Media

IP Symphony Orchestra concert

On 17 February, in the Synchrotron building of VBLHEP, a concert by the IP Symphony Orchestra was held. It was dedicated to the completion of the fourth commissioning run, the longest in the history of the NICA Accelerator Complex. Watch a video to learn more about the event.



[WATCH →](#)

Baikal-GVD Ice Camp

On 4 March, Minister of Science and Higher Education of Russia Valery Fal'kov met with representatives of eight leading scientific institutes and universities of Russia on Lake Baikal. We offer you a video about an ice camp that participants visited before the meeting.

[WATCH →](#)

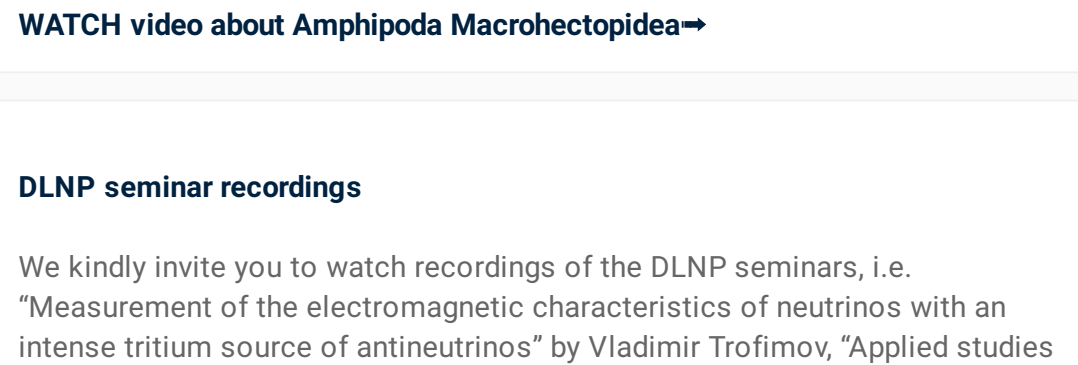
New podcast with JINR scientist

What is gravity and how does it differ from other forces? Where does the mass of an object come from? Can gravity affect matter and chemical reactions? Find out the answers to these and other questions in the new episode of the Learned Cat podcast by Radio Sputnik with a VBLHEP leading researcher Maria Savina.

[LISTEN →](#)

Baikal-GVD 2023: diaries

On the ice of Lake Baikal, work on testing, installing new and upgrading previously installed clusters is in full swing. The laying of bottom cables continues. Read the diary written by a participant of the expedition and watch the stunning photographs.



[DAY 21: →](#)

[DAY 22: →](#)

[DAY 23: →](#)

[DAY 24: →](#)

[DAY 25: →](#)

[DAY 26: →](#)

[DAY 27: →](#)

Baikal-GVD 2023: videos

The expedition on Lake Baikal goes on. Watch the videos about preparing and laying the bottom cable and the beautiful festival of Amphipoda Macrohectopoda.

[WATCH video about preparing the bottom cable →](#)

[WATCH video about laying the bottom cable →](#)

[WATCH video about Amphipoda Macrohectopoda →](#)

DLNP seminar recordings

We kindly invite you to watch recordings of the DLNP seminars, i.e. "Measurement of the electromagnetic characteristics of neutrons with an intense tritium source of antineutrinos" by Vladimir Trofimov; Applied studies at proton beams of the DLNP Phasotron; "The light readout system in liquid-argon modular TPC of the near detector of the DUNE experiment" by A. S. Selyulin, and "Model studies for the Mu2e and T2K Experiments" by I. A. Suslov.

[WATCH seminar by Vladimir Trofimov →](#)

[WATCH seminar about applied studies at DLNP Phasotron →](#)

[WATCH seminar by A. S. Selyulin →](#)

[WATCH seminar by I. A. Suslov →](#)

About celebration of 110th anniversary of Academician Georgy Florov

Watch a video about the celebration of the 110th anniversary of Academician Georgy Florov. The key event of the celebration was a special seminar dedicated to the memory of the scientist.

[WATCH →](#)

Recording of lecture at Blokhinka

If you did not manage to listen to the lecture "First aid mistakes" by a therapist, medical journalist, scientific editor Aleksey Vodovozov, which took place at the JINR Universal Public Library on 25 February, then you can watch the recording of it.

[WATCH →](#)

JINR Weekly Newspaper issued

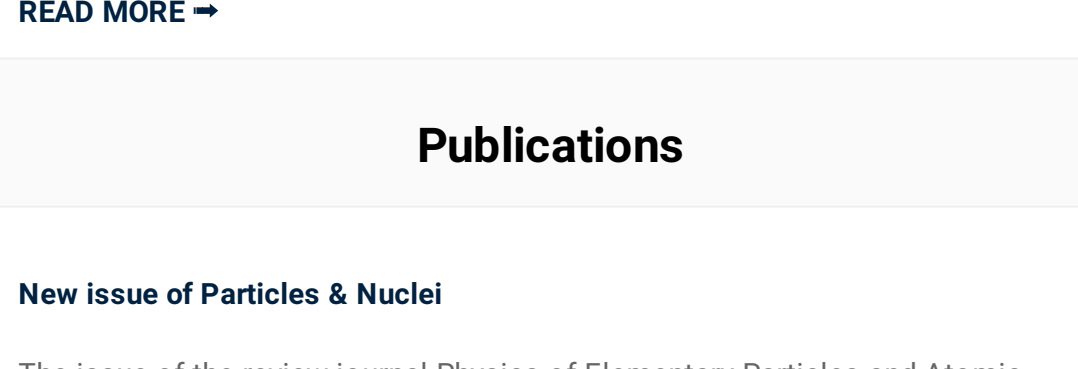
New issue of the JINR Weekly Newspaper #10 has been published. Please note that you can read an English version on the JINR Newspaper's website.

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Recalling founders

Serban Titeica

14 March marks the 115th anniversary of the birth of an outstanding scientist and organizer of science, a founder of the Romanian School of Theoretical Physics, Academician Serban Titeica (1908 – 1985).



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Venedikt Dzhelepov

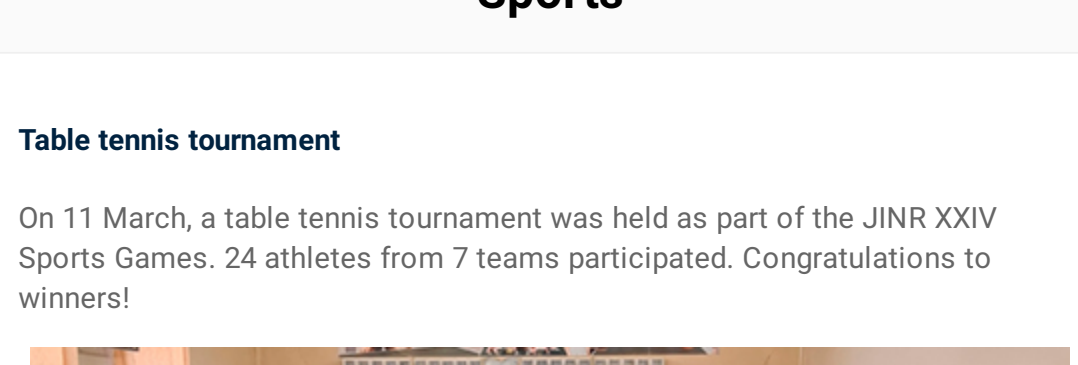
The Laboratory of Nuclear Problems continues to post publications about an outstanding organizer of science and talented physicist Venedikt Dzhelepov on the eve of his anniversary. The article is about the time when V. P. Dzhelepov was involved in the construction of the world's largest proton accelerator, the five-metre synchrocyclotron with an energy of 500 MeV.

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Announcements

Lecture "Chemical elements and where to find them"

On 18 March, at 2:00 PM, all interested are kindly invited to listen to a lecture by JINR Scientific Secretary Alexander Kapov at "Mir". At the lecture, you will learn how the Mendeleev's Periodic Table was invented, what heavy nuclei and their properties are, and how new elements are discovered.



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Registration for GRID 2023 opened

Since 15 March, registration for the 10th International Conference "Distributed Computing and Grid Technologies in Science and Education" (GRID 2023) has opened. The Joint Institute for Nuclear Research will host GRID 2023 from 3 to 7 July 2023 at the Meshcheryakov Laboratory of Information Technologies.

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Publications

New issue of Particles & Nuclii

The issue of the review journal Physics of Elementary Particles and Atomic Nuclei #2 has been published. In this eminent journal, review articles examine elementary particle physics, problems of physics in quantum field theory, condensed matter problems, symmetries in physics, etc.

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Vibrations and oscillation instability of IBR-2M Pulsed Reactor

The JINR Publishing Department has released a preprint "Vibrations and oscillation instability of the IBR-2M Pulsed Reactor" P13-2022-44. The authors are Yu. N. Pepelyshev and Ts. Tsogtsaikhan.

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Detector array for ⁷H nucleus multi-neutron decay study

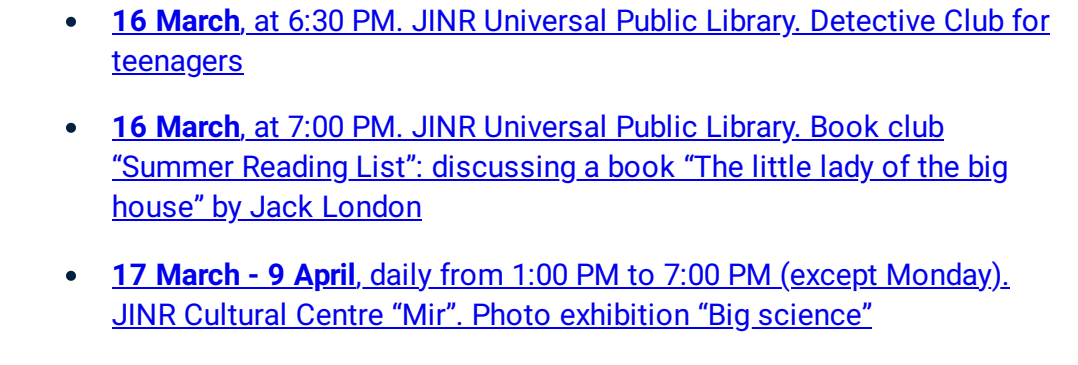
The JINR Publishing Department has issued one more preprint "Detector array for the ⁷H nucleus multi-neutron decay study" E13-2022-56. The authors are A. A. Bezukh et al.

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Sports

Table tennis tournament

On 11 March, a table tennis tournament was held as part of the JINR XXIV Sports Games. 24 athletes from 7 teams participated. Congratulations to winners!



[LEARN the results →](#)

Open weightlifting tournament

On 19 and 26 March, a two-day open weightlifting tournament will be held at the JINR Sports Club as part of the XXIV JINR Sports Games. Registration is available for each day separately or for both days of the competition.

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Upcoming Events

Governing and Advisory Bodies

- **22 March, Meeting of the JINR Finance Committee, JINR International Conference Centre, Dubna**

Seminars

- **16 March, at 11:00 AM, DLNP, "Study of neutrino oscillations in NOVA/DUNE Accelerator Experiments"** by Oleg Samoylov
- **16 March, at 3:00 PM, MLIT, "Event Picking Service"** by E. I. Aleksandrov and "Development of algorithms and web services for the automation of histogram test data analysis" by T. Zh. Bechayev
- **17 March, at 11:00 AM, BLTP, "Description of the decays $\tau \rightarrow K^* \nu_\tau$ in $U(3) \times U(3) \times U(1)$ chiral quark model"** by A. A. Pivovarov
- **17 March, at 11:00 AM, DLNP, "Optimization of neutron and physical parameters of the NEPTUNE Pulsed Research Reactor"** by Khassan Akhmed
- **17 March, at 11:30 AM, VBLHEP, "Experimental study of the OGD phase diagram via energy scan at RHIC"** by Xiaofeng Luo
- **20 March, at 11:00 AM, BLTP, "Isospin symmetry breaking in double-pion production in the region of $d^0(2830)$ and the scalar ω meson"** by Nurbek Turabayev
- **21 March, at 11:00 AM, DLNP, "AMBER Experiment at CERN"** by Aleksey Guskov
- **21 March, at 3:00 PM, MLIT, "Multi-agent technologies for collecting, processing and visualizing unstructured data"** by Aleksey Artamonov
- **22 March, at 11:00 AM, VBLHEP, "Electron beam ion source for production of polarized $^3\text{He}^{++}$ "** by V. P. Ovsyannikov
- **22 March, at 11:00 AM, DLNP, "B-Hadron Trigger in the ATLAS Experiment for Run 3"** by V. V. Lvubushkin

Culture

- **16 March, at 5:00 PM, Museum of History of Science and Technology of JINR, Lecture series "Battle for elements"**, Seaborg et al.
- **16 March, at 6:30 PM, JINR Universal Public Library, Detective Club for teenagers**
- **16 March, at 7:00 PM, JINR Universal Public Library, Book club "Summer Reading List"**, discussing a book "The little lady of the big house" by Jack London
- **17 March – 9 April, daily from 1:00 PM to 2:00 PM (except Monday), JINR Cultural Centre "Mir", Photo exhibition "Bio science"**
- **17 March, at 6:00 PM, JINR Universal Public Library, English speaking club**
- **18 March, at 11:00 AM, JINR Cultural Centre "Mir", 5th Festival of Dubna's theatre groups**
- **18 March, at 3:00 PM, JINR Universal Public Library, Recital at Blokhinka**
- **18 March, at 6:00 PM, JINR Universal Public Library, Lectures dedicated to JINR Foundation Day**
- **20 – 24 March, JINR Cultural Centre "Mir", "JINR main facilities" exposition tour**
- **22 March, at 5:00 PM, Museum of History of Science and Technology of JINR, Lecture series "Battle for elements"**, Made in Dubna
- **22 March, at 7:00 PM, JINR Universal Public Library, Book club "Hajiqat", discussing a book "Everything I never told you" by Geliste No**

Sports

- **16 February – 26 March, JINR Sports Complex, XXIV JINR Sports Games**
- **19 March, JINR Sports Club, Open kettlebell lifting tournament**

For Kids

- **18 March, at 3:00 PM, JINR Universal Public Library, Meetings in focus: "Engineering", "Let's READers", and "Snapping up from Let's READers"**

[ALL JINR EVENTS →](#)

