



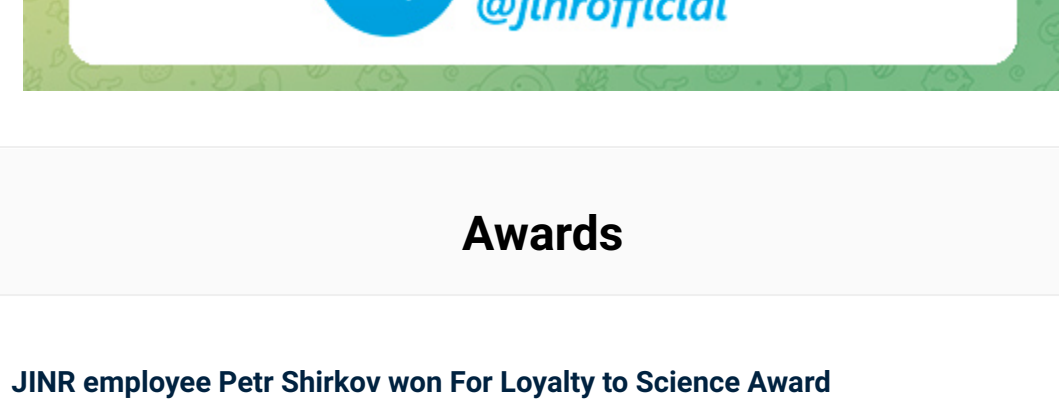
JINR Newsletter #43, 2 November 2023

Dear colleagues and friends,

The Institute's international life is actively going on. The AYSS-2023 Youth Conference brought together young scientists from nine countries of the world. The JINR-Egypt Joint Coordination Committee summed up results of a two-year work since the country became a fully-fledged Member State.

The past week gave us a reason to be proud of the successes of our colleagues, who have received recognition from the location country of JINR. Thus, Petr Shirkov (UC) became the winner of the All-Russian award "For Loyalty to Science", and the scientific works of young scientists Alexander Nezvanov (FLNP) and Vladislav Shalaev (VBLHEP) won the Moscow Region Governor's Award.

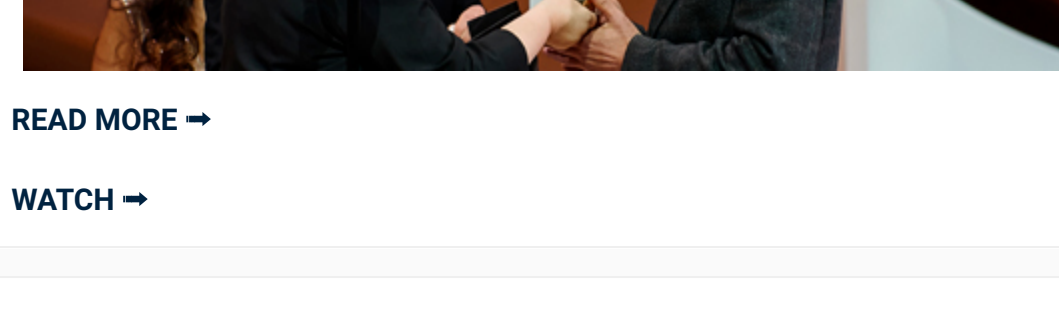
JINR Press Office



Awards

JINR employee Petr Shirkov won For Loyalty to Science Award

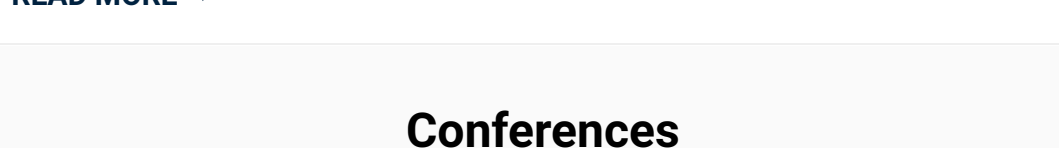
A JINR employee Petr Shirkov won the 9th All-Russian Award "For Loyalty to Science" in the Mentor nomination. It is especially significant that the merits of our colleague, the ideologist and long-time scientific leader of the International Computer School, educational project for children, have received recognition in the Year of Teacher and Mentor in Russia.



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JINR young scientists won Moscow Region Governor's Award

Alexander Nezvanov (FLNP) and Vladislav Shalaev (VBLHEP) won the competition for annual awards of the Governor of the Moscow Region in science, technology, engineering, and innovation. We congratulate the Institute's staff members on winning the competition!

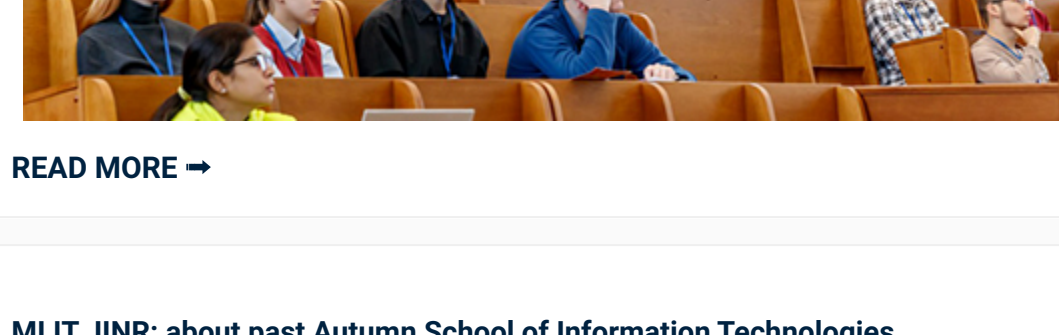


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Conferences

Conference of Young Scientists and Specialists started at JINR

This week, the Institute is hosting the 27th AYSS-2023 International Conference organized by the Association of Young Scientists and Specialists of JINR. The event brought together 240 students, young scientists, and specialists from Belarus, Cuba, Egypt, India, Kazakhstan, Russia, Serbia, South Africa, and Syria at JINR.



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MLIT JINR: about past Autumn School of Information Technologies

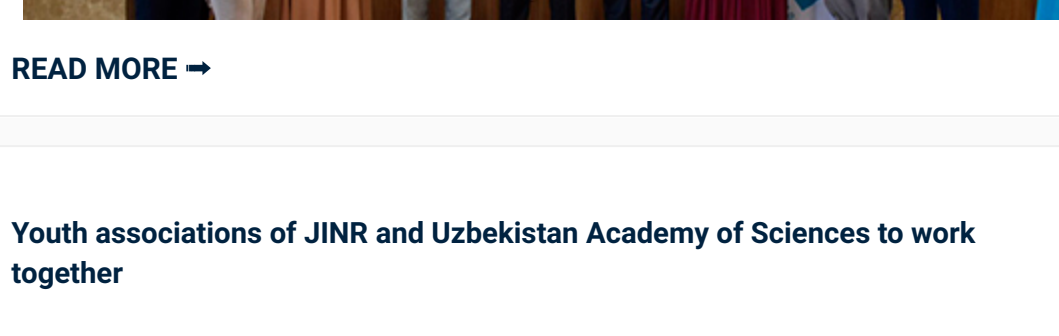
On 16 – 20 October, the Meshcheryakov Laboratory of Information Technologies hosted the Autumn IT School of JINR. Over 50 senior students from 11 Russian universities, including those ones where JINR Information Centres operate, participated in the event.

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Cooperation

JINR-Egypt Committee summed up interim results of two-year cooperation

At the end of October, a JINR delegation visited the Arab Republic of Egypt, where a number of meetings were held at the Academy of Scientific Research & Technology, the Egyptian Atomic Energy Agency, the City of Science, Technology and Innovation Zewala, and the National Research Centre.



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Youth associations of JINR and Uzbekistan Academy of Sciences to work together

On 30 October, a festive signing of the Letter of Intent between AYSS JINR and the Council of Young Scientists of the Academy of Sciences of the Republic of Uzbekistan took place. The signing was held as part of the Week of Innovative Insights of Young Scientists in Uzbekistan.

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Results of JINR-India scientific workshop

The JINR-India workshop on elementary particle physics, nuclear physics, and condensed matter physics took place at the Joint Institute for Nuclear Research on 16 - 19 October. The event brought together about 150 scientists from JINR and research centres of India.

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Education

Start your career at JINR

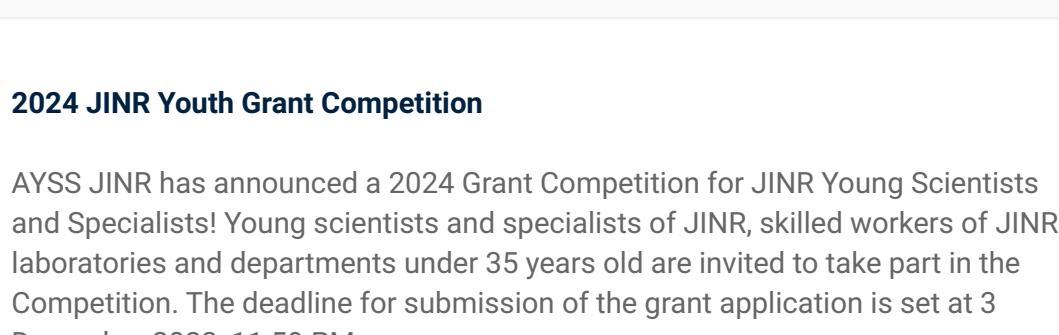
A Career Fair was held at Moscow Institute of Physics and Technology on 27 October. JINR representatives told students about the possibility of internship and employment at the Institute, presented career prospects for young employees working in the fields of nuclear physics, particle physics, condensed matter physics, theoretical physics, radiobiology, and IT.

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Announcements

Applications for Bruno Pontecorvo and Venedict Dzhelepov scholarships are open

JINR invites young scientists of DLNP to take part in competitions for the Bruno Pontecorvo Scholarship, as well as the Venedict Dzhelepov Scholarship. You can apply until 20 November.



[READ MORE about Pontecorvo Scholarship →](#)
[READ MORE about Dzhelepov Scholarship →](#)

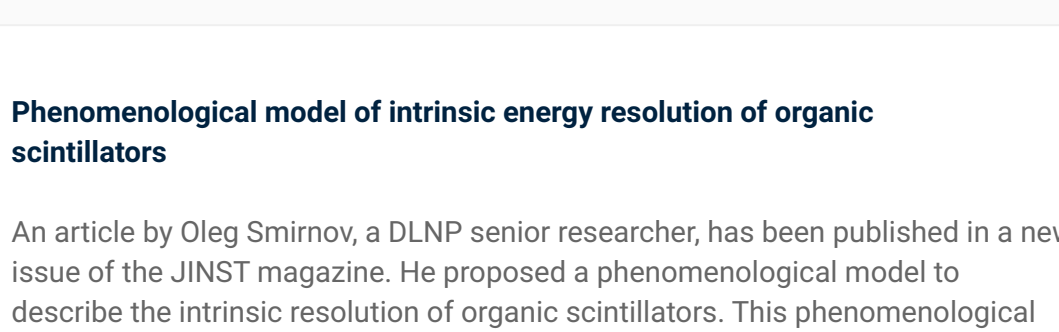
2024 JINR Youth Grant Competition

AYSS JINR has announced a 2024 Grant Competition for JINR Young Scientists and Specialists! Young scientists and specialists of JINR, skilled workers of JINR laboratories and departments under 35 years old are invited to take part in the Competition. The deadline for submission of the grant application is set at 3 December 2023, 11:59 PM.

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"Medical patrol" started working in Medical Unit No. 9

For the first time, a project has started in Dubna, within which not just a physician, but a team of health workers will visit patients with limited mobility at home to examine and provide medical assistance. The aim of the project is regular examination and prevention of serious diseases of patients with limited mobility.

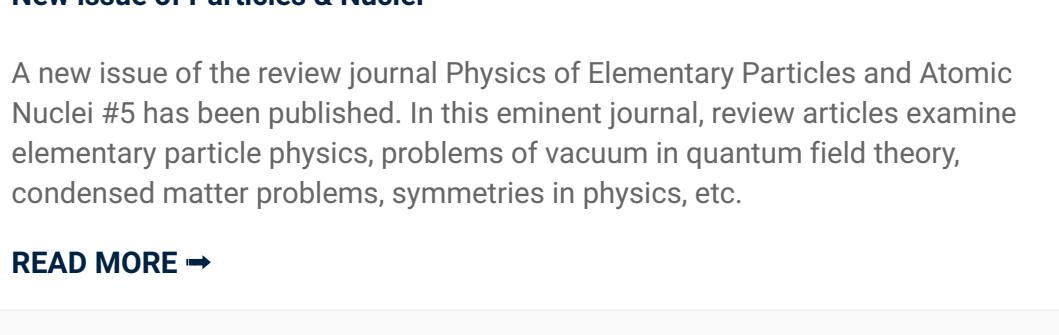


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Publications

Phenomenological model of intrinsic energy resolution of organic scintillators

An article by Oleg S. Smirnov, a DLNP senior researcher, has been published in a new issue of the JINST magazine. He proposed a phenomenological model to describe the intrinsic resolution of organic scintillators. This phenomenological model allows scientists to describe the available data using a universal parameter.



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New issue of Particles & Nuclei

A new issue of the review journal Physics of Elementary Particles and Atomic Nuclei #5 has been published. In this eminent journal, review articles examine elementary particle physics, problems of vacuum in quantum field theory, condensed matter problems, symmetries in physics, etc.

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PyChannel Messaging Service in Sonix+

The JINR Publishing Department has issued a preprint "PyChannel Messaging Service in Sonix+" P10-2023-27. The authors are Ivan Morkovnikov and Lyubov Truntova.

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On finite-element modeling of large-scale magnetisation problems with combined magnetic vector and scalar potentials

We offer to your attention a preprint "On finite-element modeling of large-scale magnetisation problems with combined magnetic vector and scalar potentials" E11-2023-37 issued by the JINR Publishing Department. The author is Alexander Chernyakov.

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Media

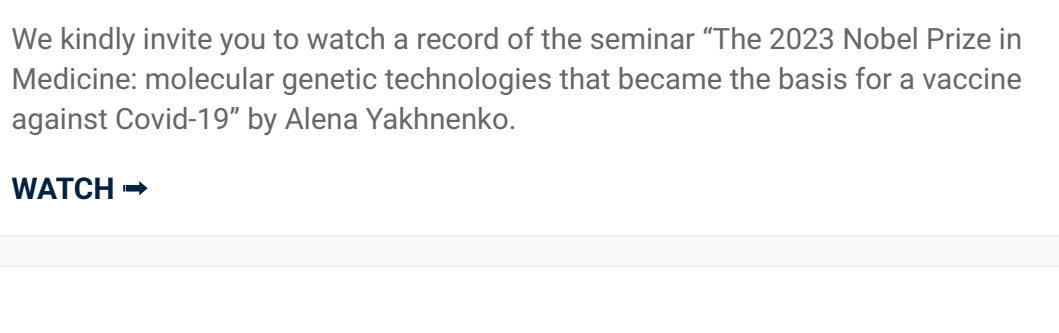
Interview with Alexander Olshevsky

The second part of an interview with Alexander Olshevsky (DLNP JINR) has been issued. In this part, the scientist talks about defence of his doctoral thesis, OPERA and DAYA BAY neutrino experiments, recalls his teachers, talks about his interests apart from science, answers quick-fire questions, and much more.

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New wallpaper for your smartphone

The JINR Telegram Channel presents a November wallpaper set with Dubna, the sights. This time, the pictures feature the old hotel in the city, "Dubna", the Volna Café, a house on 7 Meshcheryakov Street with a sgraffito celebrating the friendship of peoples, and the JINR International Conference Centre.



[DOWNLOAD →](#)

Record of lecture on Russian regions in new economic conditions

Everyone who could not come to the JINR Universal Library on 14 October for a lecture by an economic geographer Natalia Zubarevich can watch it online! She spoke about assessments of dynamics, risks, and opportunities of Russian regions in new economic conditions.

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DLNP seminar record

We kindly invite you to watch a record of the seminar "The 2023 Nobel Prize in Medicine: molecular genetic technologies that became the basis for a vaccine against Covid-19" by Alena Yakhnenko.

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Video about past week JINR events

We offer you to watch a video review of recent events from the life of the Institute and Dubna.

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JINR Weekly Newspaper issued

A new issue of the JINR Weekly Newspaper #41 has been published. Please note that you can read an English version on the JINR Newspaper's website.

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Upcoming Events

Governing and Advisory Bodies

- **9 November**, Meeting of the JINR Finance Committee, Almaty, Republic of Kazakhstan

Conferences

- **30 October – 3 November**, the 27th International Scientific Conference of Young Scientists and Specialists (AYSS-2023), JINR, Dubna

Seminars

- **3 November, 10:00 AM**, VBLHEP, Lecture series on training of accelerator complex operators. Magnetic field cycle control
- **3 November, 11:00 AM**, FLNP, "Verification of evaluated nuclear data libraries for the Np-237 critical experiment and comparison of the modeling results for the NEPTUN Reactor" by Ahmed Hassan and Tatyana Dikova
- **3 November, 12:30 PM**, BLTP, "Matrix models: superintegrability and W-representation" by Viktor Mishnyakov
- **3 November, 2:30 PM**, BLTP, "Giant resonances study at the K600 Magnetic Spectrometer" by Iyabo Usman
- **9 November, 11:00 AM**, Meeting of DLNP Dissertation Council, "Investigation of the fundamental properties of leptons using data from the Borexino experiment" by Alina Vishneva

Culture

- **3 October – 5 November**, daily from 1:00 PM to 7:00 PM (except Monday), JINR Cultural Centre "Mir", Exhibition of mosaics
- **16 October – 1 December**, daily from 2:00 PM to 7:00 PM (except Saturday and Sunday), JINR Scientists' Club, "Artist paints Dubna" exhibition
- **31 October, 6:30 PM**, JINR Universal Public Library, Dark Matter Day
- **2 November, 6:00 PM**, JINR Universal Public Library, Closing of sailing section season
- **2 November, 7:00 PM**, JINR Universal Public Library, Hairin book club: discussing a novel "Battle Hymn of the Tiger Mother" by Amy Chua
- **3 November, 6:00 PM**, JINR Universal Public Library, Scrapbooking club's meeting
- **3 November, 6:00 PM**, JINR Universal Public Library, English speaking club
- **3 November, 6:00 PM**, JINR Universal Public Library, JINR Cinema Club
- **4 November**, Zvenigorod, Trip by JINR Scientists' Club
- **4 November, 5:00 PM**, JINR Universal Public Library, Lectures on linguistics
- **4 November, 6:00 PM**, JINR Cultural Centre "Mir", Concert of pop artists
- **5 November, 3:00 PM**, JINR Cultural Centre "Mir", Jubilee concert of Academic choir "Belcanto"
- **9 November, 7:00 PM**, JINR Universal Public Library, Summer Reading List club: discussing a novel "History of a town" by Mikhail Saltykov-Shchedrin

For Kids

- **4 November, 4:00 PM**, JINR Universal Public Library, Children's research project "Archimedes Pear"
- **4 November, 5:00 PM**, JINR Universal Public Library, Let's READers

[ALL JINR EVENTS →](#)