



JINR Newsletter #38, 9 October 2024

Dear colleagues and friends,

This week's key event is the BM@N Collaboration Meeting discussing research results and plans for the experiment at NICA.

JINR participated in a number of educational events: a school and workshop took place in Khabarovsk, and students from several countries visited the Institute as part of the UC Practice and the MLIT Autumn School. Those wishing to get acquainted with JINR and work on a research project under the guidance of scientists can now apply for the Wave 11 of the INTEREST Programme.

In addition, the Institute is celebrating a memorable date: today is the centenary of the birth of LHE co-founder Ivan Chuvilo. Read about this and much more in the latest issue of the JINR Newsletter.



Conferences

13th Collaboration Meeting of BM@N Experiment starts at VBLHEP JINR

On 8–10 October, scientists participating in the BM@N Collaboration at the NICA Complex are discussing the latest results of the experiment and further research plans in the hybrid format. The meeting includes over 30 reports.



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International School and Workshop on Few-Body Systems finished in Khabarovsk

The event took place from 30 September to 4 October and was organized by Pacific National University, JINR, and Dubna University. The mixed format facilitated the exchange of the latest research results while also giving students an opportunity to learn more about the event's topics through reports and lectures.

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Education

Second stage of international student internship finished at JINR

On 9–27 September, the JINR University Centre hosted the International Practice. 37 students from a number of JINR Member States visited the Institute to get acquainted with its infrastructure, enjoy cultural exchange, and conduct research with the supervision of leading JINR scientists.



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JINR Autumn IT School starts at MLIT

The educational programme started on 7 October, gathering 58 students from various Russian universities at the Laboratory of Information Technologies at JINR. During the week-long event, the young researchers will hear lectures, participate in workshops, compete in two hackathons, and get acquainted with JINR research facilities.

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Anniversaries

In memory of LHE JINR co-founder Ivan Chuvilo

9 October 2024 marks the centenary of the birth of a talented scientist in nuclear and particle physics, one of the founders of the JINR Laboratory of High Energy, LHE Director in 1966–1968, Professor Ivan V. Chuvilo (09/10/1924–16/03/2001).



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Publications

JINR and China scientists designed HTS cable for NICA

VBLHEP scientists and their colleagues from China developed a forced flow cooling HTS cable for the SMES system with high current capacity. The system ensures stable operation of superconducting magnets in accelerators, including those in the NICA Complex. *IEEE Transactions on Applied Superconductivity* [published](#) the results.

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New properties of elastic proton-proton and proton-antiproton scattering at high energies

The research was conducted by a VBLHEP JINR leading researcher Oleg Selugin and [published](#) in *The European Physical Journal C*. The results open up new possibilities for making predictions for hadron interactions at essentially larger energies at future colliders and at ultra-high energies of cosmic rays.

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Announcements

Registration for Wave 11 of INTEREST Programme opens

From 5 November to 14 December, the JINR University Centre will host the next International Remote Student Training (INTEREST). The list of available projects will be published on the event's [website](#) on 21 October. You can apply via the website until 25 October.



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Media

Teaser of popular science show filmed at JINR

The second season of *The Journey of Over Thousand LI* mini-series will feature JINR researchers discussing Institute's space studies. Please enjoy the teaser on Rutube and a commentary by Sergei Merts about his impressions of the project. Stay tuned for the release date of the full series!



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Video about Autumn IT School

MLIT JINR is hosting the biannual School of Information Technologies. Please enjoy a video showcasing the first days of the event.

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A day in JINR life

On 3 October, the JINR Telegram channel published a post featuring an archive photograph with Yuri Shcherbakov and Nikolay Lebedev setting up helium streamer chamber at DLNP at JINR taken exactly 56 years ago, on 3 October 1968. Please enjoy the photo and its description.

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Video about main 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

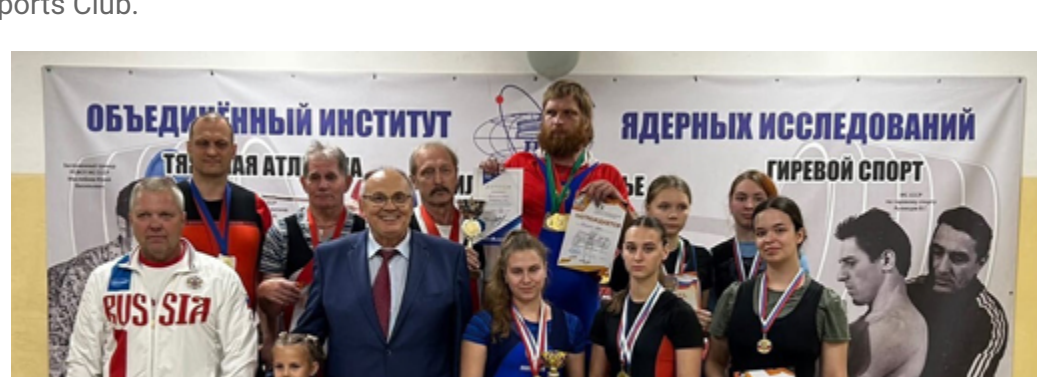
A new issue of the JINR Weekly Newspaper #38 has been published. Please note that you can read an English version on the JINR Newspaper's website.

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Sports

Tournament in memory of Honoured Coach of Russia Yuri V. Masloboev

The annual weightlifting tournament took place on 5 October at the JINR Sports Club with the participation of 80 athletes from Moscow and Tver Regions. Please enjoy the pictures of the awarding and a mosaic portrait of Yuri Masloboev gifted to the Sports Club.



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JINR team wins a volleyball tournament

On 5 October, the JINR Sports Club celebrated the 70th anniversary of the Nauka Stadium with a volleyball tournament. Congratulations to the Institute's team on taking the first place!

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Upcoming Events

Conferences

- **7 – 11 October.** [JINR Autumn School of Information Technologies.](#) MLIT JINR, Dubna
- **7 – 11 October.** [Scientific students practice "Control processes in scientific projects, participation of students in scientific research".](#) JINR, Dubna
- **7 – 11 October.** [Introduction for the plenipotentiaries/offices and officers responsible for liaison with JINR.](#) JINR, Dubna
- **8 – 10 October.** [13th Collaboration Meeting of the BM@N Experiment at the NICA Facility.](#) VBLHEP JINR, Dubna
- **14 – 16 October.** [14th Collaboration Meeting of the MPD Experiment at the NICA Facility.](#) VBLHEP JINR, Dubna
- **16 – 18 October.** [Current problems in radiation biology. Modification of radiation-induced effects.](#) JINR, Dubna

Seminars

- **10 October, 11:00 AM.** DLNP Dissertation Council. "Heterogeneous scintillator for detecting thermal neutrons based on lithium glass" by Ilya Zimin
- **10 October, 11:00 AM.** VBLHEP. "Nonlinear standing waves and formation of patterns and coherent structures in intense charged particle beams" by Stephan Tzenov, Anton Volodin
- **10 October, 12:30 PM.** MLIT. "Presymplectic structures and minimal first-order Lagrangians for massive fields" by Vyacheslav Gritsaenko
- **10 October, 4:00 PM.** BLTP. "Method of hyperlogarithms: a non-trivial application to the theory of turbulence" by Daniil Erdokimov
- **11 October, 10:00 AM.** VBLHEP. "Colliders" lecture series. "Beam cooling methods in synchrotrons" by Valery Lebedev
- **14 October, 11:00 AM.** BLTP Journal Club. "Quantum geometry exists outside of space and time" by Chitta Ranjan Das
- **15 October, 11:00 AM.** MLIT. "Development, creation and further evolution of the Event Picking Service within the ATLAS Event Index project" by Alexander Yakovlev. "Comparison of various optimisation methods in the quantum QAOA algorithm for the Ising model" by Yuri Palii
- **16 October, 11:00 AM.** DLNP. "Trigger of heavy B hadrons in ATLAS Experiment and measurement of CP-violating phase ϕ_{cb} in $B_c^0 \rightarrow J/\psi p$ decay" by Vladimir Lyubushkin

Culture

- **2 – 27 October.** Daily from 1:00 to 7:00 PM (except Monday), JINR Cultural Centre "Mir". Exhibition of wood art
- **10 October, 7:00 PM.** JINR Universal Public Library. Summer Reading List book club
- **11 October, 6:00 PM.** JINR Universal Public Library. English speaking club meeting
- **11 October, 6:00 PM.** JINR Universal Public Library. Film screening
- **12 October, 6:00 PM.** JINR Mir Cultural Centre. Masterpieces of World Ballet Classics: gala concert
- **12 October, 3:00 PM.** JINR Mir Cultural Centre. Masterclass on stage movement
- **15 October, 7:00 PM.** JINR Mir Cultural Centre. Comedy performance
- **16 October, 7:00 PM.** JINR Mir Cultural Centre. Piano concert

For Kids

- **11 October, 4:00 PM.** JINR Universal Public Library. Times and Epochs children's history project
- **12 October, 5:00 PM.** JINR Universal Public Library. Let's READers

Sports

- **13 October, 12:30 PM.** JINR Nauka Stadium. Football tournament

[ALL JINR EVENTS →](#)