

JINR Newsletter #41, 31 October 2024

Dear colleagues and friends,

The recent highlights in the Institute's life were the reelection of the JINR Director's Special Representative Boris Sharkov as Vice-President with responsibility as Treasurer of the IUPAP General Assembly and the election of three JINR employees for participation in the Union's commissions.

The Institute has been actively working on strengthening international ties as part of three major scientific conferences: *Mathematical Modeling and Computational Physics in Yerevan, AYSS-2024 in Dubna, and Youth in Science in Minsk.*

The latest issue of the JINR Newsletter also features details about the winners of the Moscow Region Governor's Prize, the opening of the JINR exhibition about cyclists, and new book acquisitions at the JINR Science and Technology Library.



Cooperation

JINR at 33rd IUPAP General Assembly

As part of the Assembly, JINR Director's Special Representative for cooperation with international and Russian scientific organizations Boris Sharkov was reelected for a second term as Vice President with the responsibility of Treasurer, and three JINR employees were elected to participate in IUPAP commissions.



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Conferences & Schools

AYSS-2024 International Conference at MLIT at JINR

This week, the 28th International Conference of Young Scientists and Specialists (AYSS-2024) is taking place at the Laboratory of Information Technologies at JINR. The event gathered more than 260 youth representatives from around the world. The participants are making presentations and discussing important issues of modern science.



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MMCP-2024 finished in Yerevan

Last week, Yerevan hosted the International Conference on Mathematical Modeling and Computational Physics marking the 80th anniversary of the birth of Alexei Sissakian. The event brought together more than 150 scientists from 18 countries.

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JINR hosted Rosatom scientific school on new materials and advanced energy systems

From 21 to 24 October, young researchers took part in the second module of the Rosatom educational programme organized with JINR participation. The autumn stage of the event focused on superheavy element synthesis and the behaviour of materials under extreme conditions.

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Awards

Young JINR scientists received Prizes of Governor of Moscow Region

Dmitry Nikiforov (VBLHEP) was awarded for his work "High technology cryogenic systems for the NICA Accelerator Complex"; Evgenii Mardyban (BLTP) received the prize for his research on the structure and properties of atomic nuclei in nuclear collective models. Congratulations to the researchers!



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Publications

Review of Particles & Nuclei, Letters, #6 2024

The JINR Publishing Department has released the sixth issue of *Physics of Elementary Particles and Atomic Nuclei, Letters*, a journal constituting review articles by leading physicists from the JINR Member States and scientists from all over the world.

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Books

New Book Acquisitions exhibition in S&T Library

What will the proton cyclotron at JINR be like? What are the 12 main physics discoveries of the 20th century? How do the four physics laws shape the living world? Please visit the JINR Science and Technology Library to find answers to these and other questions.



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Media

Keep Your Balance

On 31 October, at 5:00 PM, the JINR Mir Cultural Centre invites everyone interested to the opening ceremony of the *Keep Your Balance* photo exhibition featuring JINR employees who actively cycle while getting to work, exploring the city, and training in Dubna locations you surely know and love.



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JINR at Youth in Science 2024 conference

A major international event is taking place in Belarus. The conference gathered a record number of participants: 600 people from 9 countries. Please enjoy photos and a comment by Chairman of the Council of the Association of Young Scientists and Specialists of JINR Vladislav Rozhkov.

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Seminar recordings

Please enjoy recordings of the seminars: "Optimisation of coordinate detector system placement for LINAC-200 test zone"¹ by Anna Kuzmenko, "Development of a micro-SPECT system based on the Timepix detector for preclinical research on laboratory animals"² by Vladislav Rozhkov, and "Charmonium production processes at LHC energies in k_T factorisation approach to QCD"³ by Andrey Prokhorov.

[WATCH¹ →](#)

[WATCH² →](#)

[WATCH³ →](#)

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 #42 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

- [28 October – 1 November. 28th International Scientific Conference of Young Scientists and Specialists \(AYSS-2024\), MLIT, JINR, Dubna](#)
- [28 October – 1 November. Scientific School for Physics Teachers of North Ossetia – Alania and Rostov Region, JINR, Dubna](#)
- [30 – 31 October. Polarised sources, polarimetry, high-energy spin physics at VBLHEP, JINR Accelerator Complex, VBLHEP, JINR, Dubna](#)
- [5 – 8 November. 8th SPD Collaboration Meeting, VBLHEP, JINR, Dubna](#)
- [5 – 22 November. Stage 3 of International Student Practice in JINR Fields of Research for students from Egypt, JINR, Dubna](#)

Seminars

- [31 October, 11:00 AM, VBLHEP. "Methods of the NICA Booster linear optics evaluation" by Victor Smirnov](#)
- [31 October, 11:00 AM, VBLHEP. "Application of tagged neutron method for element analysis of body in vivo" by Mikhail Sapozhnikov](#)
- [31 October, 11:00 AM, DLNP. "Experiments at Circular Electron-Positron Collider in China. Proposal for JINR participation" by Yuri Kulchitsky](#)
- [31 October, 12:30 PM, BLTP. "Split Casimir operator, Vogel parameters, and colour factors in gauge theories" by Alexander Provorov](#)
- [1 November, 10:00 AM, VBLHEP. "Colliders" lecture series. "Beam cooling methods in synchrotrons. Part 3" by Valery Lebedev](#)
- [1 November, 11:00 AM, DLNP. "Positron annihilation spectroscopy and Doppler spectroscopy as auxiliary methods of nuclear materials research" by Evgeni Popov](#)
- [5 November, 4:00 PM, BLTP. "Theoretical advances in the structural characterization of complex systems: fractals, hierarchical, and multiphase materials" by Evgen Mircea Anitas](#)
- [6 November, 11:00 AM, DLNP. "On the issue of nucleon mass origin" by Vladimir Komarov](#)

Culture

- [31 October – 24 November. Daily from 1.00 to 7.00 PM \(except Monday\), JINR Mir Cultural Centre. Keep Your Balance photo exhibition](#)
- [31 October, 7:00 PM, JINR Universal Public Library. Hairpin book club](#)
- [31 October, 7:00 PM, JINR Universal Public Library. Dark Matter Day](#)
- [31 October, 7:00 PM, JINR Scientists' Club. Brass quintet concert](#)
- [1 November, 6:00 PM, JINR Universal Public Library. English speaking club](#)
- [1 November, 6:30 PM, JINR Universal Public Library. Scrapbooking club's meeting](#)
- [1 November, 7:00 PM, JINR Scientists' Club. The Wanderers lecture](#)
- [2 November, 6:00 PM, JINR Universal Public Library. Forward to the Future literary game](#)
- [3 November, 6:00 PM, JINR Mir Cultural Centre. Stand-up show](#)
- [4 November, 6:00 PM, JINR Mir Cultural Centre. Cabaret musical](#)

For Kids

- [2 November, 5:00 PM, JINR Universal Public Library. "Let's READers"](#)
- [3 November, 12:00 PM, JINR Mir Cultural Centre. The Adventures of Dennis play](#)

[ALL JINR EVENTS →](#)