

JINR Newsletter #7, 26 February 2025

Dear colleagues and friends,

The past week marked notable scientific and cultural events at the Institute. A joint workshop with the Institute of Modern Physics of China took place at VBLHEP at JINR to discuss key projects and prospects for cooperation in accelerator complex development.

Please enjoy a video with highlights of the OGANESSION Prize ceremony held in Moscow, which celebrated the achievements of researchers and science popularisers from different countries.

You will find materials about Lunar New Year celebration at JINR, announcements of registrations for scientific events, interesting preprints, achievements of JINR employees in sports, and much more in the new issue of the JINR Newsletter.



Cooperation

JINR-IMP CAS joint workshop held at VBLHEP

On 21 February, a workshop on superconducting cavities took place at the Laboratory of High Energy Physics at JINR as part of collaboration with the Institute of Modern Physics of the Chinese Academy of Sciences. The parties discussed key projects and cooperation prospects in the development of accelerator complexes.



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Visitors from leading universities of Russia at MLIT JINR

Last week, representatives of the Moscow State University, the Higher School of Economics, and the Peoples' Friendship University of Russia visited the Laboratory of Information Technologies at JINR. The guests got acquainted with the MLIT scientific areas, NICA Accelerator Complex, MICC, and discussed cooperation opportunities.

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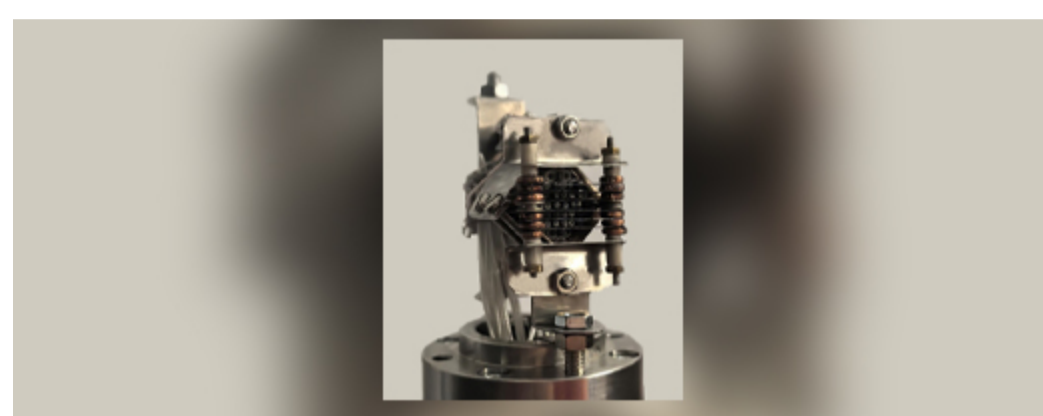
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Publications

FLNR JINR designed device for GASSOL Separator optimisation

Scientists at the Laboratory of Nuclear Reactions at JINR created and tested a beam profilometer to be used at the entrance of the GASSOL Gas-Filled Solenoid during its adjustment and launch. The new device is designed to control the position, scale, and intensity of the ion beam in real time.



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Ionisation chambers for applied research at NICA Complex developed

Research team including a VBLHEP JINR senior researcher Nelli Pukhaeva developed ionisation chambers for monitoring high energy heavy ion intense beams. The chambers are intended for the long-term irradiation station at the BM@N Experiment site at NICA.

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JINR Social

Lunar New Year celebrated at JINR

On 15 February, the JINR International Cooperation Department, the Council of National Groups, and colleagues from Vietnam, Mongolia, South Korea, and China organized an event celebrating the Lunar New Year. More than 200 people from 18 countries participated in the celebration.



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Announcements

Registration for GRID'2025 conference opens

From 7 to 11 July, the Laboratory of Information Technologies at JINR will hold the international conference entitled "Distributed Computing and Grid Technologies in Science and Education" (GRID'2025). Registration is available until 30 May.



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Nucleus-2025 conference invites applications

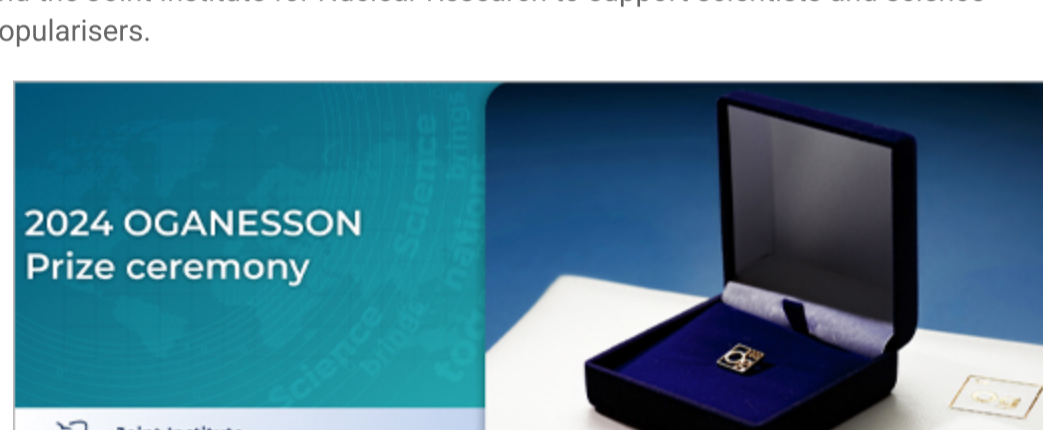
From 1 to 6 July, the 75th International Conference "Nucleus-2025. Nuclear physics, elementary particle physics, and nuclear technologies" will take place at the Saint Petersburg State University. The registration and abstract submission are available on the conference website. Registration deadline is 30 May.

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Media

2024 OGANESSION Prize laureates awarded in Moscow

Please enjoy a video about the second award ceremony of the OGANESSION Prize, which took place on 14 February at the Pushkin State Museum of Fine Arts in Moscow. The Prize was established in 2023 by RAS Academician Yuri Oganessian and the Joint Institute for Nuclear Research to support scientists and science popularisers.



[WATCH in VK →](#)

[WATCH on YouTube →](#)

A day in JINR life

Every week, the JINR Telegram channel shares archival photos of the Institute. We invite you to look at the IBR-2 Reactor Hall photographed 21 years ago, in February 2004. In 2021, the IBR-2 was shut down due to repair, and this month, the facility was put into operation at its design capacity.

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Seminar recordings

We invite you to watch the recordings of the seminars "Interferometer for measuring angle and its application in interferometric precision laser inclinometer"¹ by Mikhail Lyablin and "Determining the time of photon registration on ALICE PHOS to study correlations in n^0 - n^0 , γ - γ systems and identify direct photons"² by Andrey Kuznetsov.

[WATCH¹ →](#)

[WATCH² →](#)

Weekly JINR Newspaper

A new issue of the Weekly JINR Newspaper #6 has been published. Please note that you can read an English version on the JINR Newspaper's website.

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Sports

JINR skiing achievements

The JINR team secured the bronze medal in the cross-country skiing relay dedicated to Alexander Bereznyak, competing among organizations of Dubna. The Institute was represented by Alexey Butorin (VBLHEP), Maria Alikina (JINR Sports Club), and Artem Svintsitsky (VBLHEP). Congratulations to the athletes on their successful performance!



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26th JINR Sports Games: volleyball

On 22 February, the round-robin volleyball tournament as part of the 26th JINR Sports Games finished. This year, six teams took part in the event. On 26 March, matches for the first and the third places will be held at the JINR Sports Club.

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Upcoming Events

Conferences

- [24 – 27 February. International School on Nuclear Methods and Applied Research in Environmental, Material, and Life Sciences \(NUMAR-2025\), La Habana, Cuba](#)

Seminars

- [27 February, 3:30 PM, FLNR. "Composite and hybrid functional nanomaterials based on track membranes modified using spatterling technologies" by Arnoux Rossouw. "Synthesis and study of decay properties of Lv isotopes in the \$^{238}\text{U} + ^{54}\text{Cr}\$ and \$^{242}\text{Pu} + ^{50}\text{Ti}\$ reactions" by Dastan Ibadullayev](#)
- [28 February, 11:00 AM, FLNP. "On the character of changes in the power feedback of a pulsed reactor during the fuel lifetime" by Evgeny Shabalin](#)
- [28 February, 11:30 AM, VBLHEP. "Modelling light nuclei and hypernuclei in heavy ion collisions in the thermodynamic approach using the THESEUS Generator" by Marina Kozhevnikova](#)
- [28 February, 11:30 AM, FLNR. "Ion thermalisation and extraction simulations at the cryogenic gas stopping cell" by Alena Kohoutova](#)
- [5 March, 11:00 AM, DLNP. "Search for quantum black holes in the lepton and jet final state using p-p collisions at 13.6 TeV based on ATLAS Detector data" by Sergey Karpov](#)
- [5 March, 4:00 PM, BLTP. "Hydrodynamics of a relativistic dissipative fluid with spin" by David Montenegro](#)

Culture

- [18 February – 16 March. Daily from 1:00 to 7:00 PM \(except Monday\), JINR Mir Cultural Centre. Sculpture exhibition](#)
- [27 February, 7:00 PM. JINR Universal Public Library. Summer Reading List book club](#)
- [28 February, 6:00 PM. JINR Universal Public Library. English speaking club](#)
- [28 February, 6:00 PM. JINR Universal Public Library. JINR Cinema Club](#)
- [28 February, 7:00 PM. JINR Scientists' Club. Life and Art of Dmitry Zhilinsky lecture](#)
- [2 March, 5:00 PM. JINR Mir Cultural Centre. Symphony orchestra concert](#)

For Kids

- [28 February, 5:00 PM. JINR Universal Public Library. Little Owls children's book club](#)
- [28 February, 6:30 PM. JINR Universal Public Library. Meeting of book and discussing club for teenagers](#)
- [1 March, 5:00 PM. JINR Universal Public Library. "Let's READers"](#)
- [1 March, 5:00 PM. JINR Mir Cultural Centre. Children's musical performance](#)

Sports

- [28 February - 1 March, 1:00 PM. JINR Archimedes Swimming Pool. Swimming competition in memory of Academician Georgy Flerov](#)

[ALL JINR EVENTS →](#)