

JINR Newsletter #47, 17 December 2025

Dear colleagues and friends,

A Vietnam delegation headed by Vice President of Vietnam Academy of Science and Technology visited the Joint Institute. The programme included an introduction to the JINR activities and a meeting with the Institute's leadership. The parties discussed prospects for further collaboration, including the participation of the Republic's specialists in studies at the Institute's facilities and the joint creation of new research infrastructure objects in Vietnam.

The Institute recently took part in a large number of events dedicated to scientific partnerships. Among them were joint seminars with representatives of Mexico and Brazil, along with participation in an exhibition in Egypt, meeting at the Russian Academy of Sciences, and the International Conference on Cooperation in Science and Technology. These activities are a direct reflection of JINR's foundational principle of being an open organization that values everyone it has the opportunity to work with.

Enjoy a tribute to former Plenipotentiary of Georgia to JINR Albert Tavkhelidze, a video about JINR Committee of Plenipotentiaries, an article about a statue of Academician Alexander Baldin getting unveiled in Dubna, and much more in the latest JINR Newsletter.

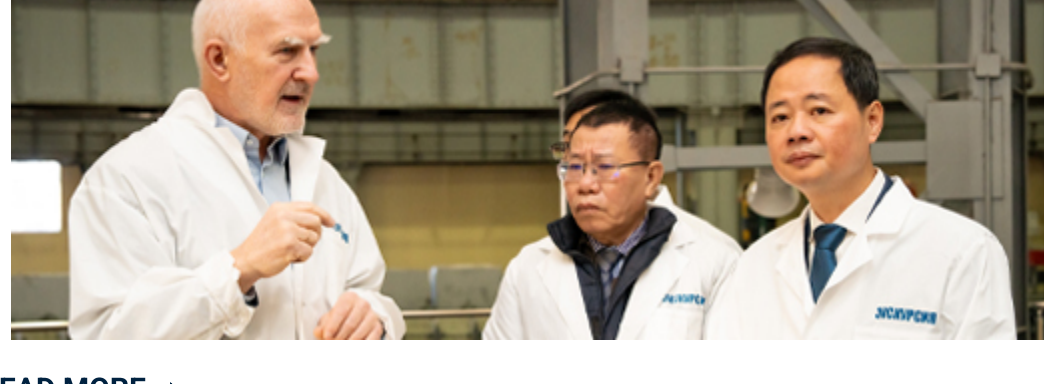
JINR Press Office



Cooperation

Vice President of Vietnam Academy of Science and Technology visited JINR

Dr. Tran Hong Thai headed a Vietnam delegation, which got introduced to JINR's scientific infrastructure and research on 13 December. At a meeting with the Institute's leadership, the parties discussed prospects for further collaboration.



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JINR shared experience of international cooperation at seminar in Brazil

On 5 December, the Latin American Centre for Physics and Brazilian Ministry of Science, Technology and Innovation held a high-level seminar dedicated to advancing partnerships in physics in Latin America. Among participants were representatives of UNESCO, CERN, and JINR.

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JINR and leading Mexican universities participated in seminar in Mexico City

The National Autonomous University of Mexico (UNAM) hosted a workshop titled "México-JINR scientific cooperation opportunities". The participants represented Joint Institute, Institute of Physics and Institute of Nuclear Sciences at UNAM, and Michoacana University of San Nicolás de Hidalgo.

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Meetings & Conferences

JINR at General Meeting of Physics Division of Russian Academy of Sciences

At the Division's recent meeting dedicated to solid state radiation physics, JINR Scientific Leader Victor Matveev discussed international partnerships and the achievements of Soviet and Russian particle physicists in the 80s and 90s.



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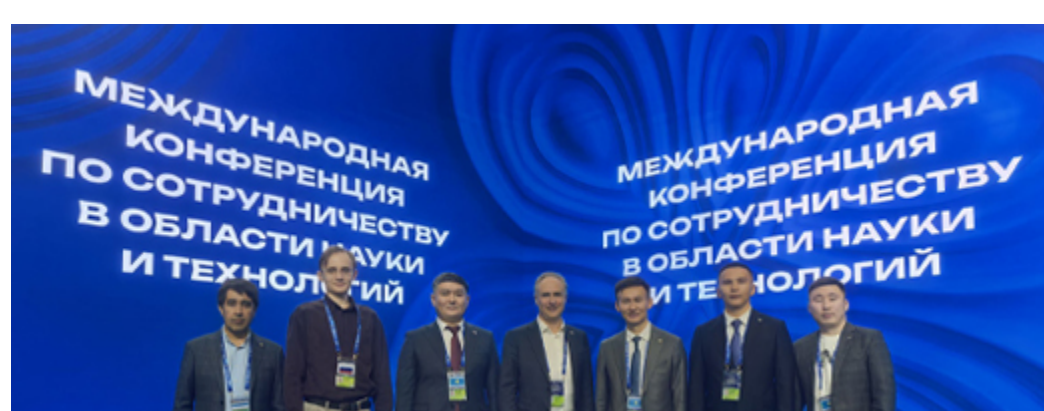
JINR delegation at IRC Expo 2025 in Egypt

The International Research Commercialization Expo took place in the New Administrative Capital of Egypt on 11–12 December. The Institute's scientist talked about track membranes and a preparative tangential filtration system at the JINR booth.

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JINR at International Conference on Cooperation in Science and Technology

At the event, teams of young researchers from different countries presented projects aimed at advancing national technologies of the Commonwealth of Independent States. Among them was a group of JINR scientists from Azerbaijan, Belarus, Kazakhstan, Russia, and Uzbekistan.



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Research

Method of pulsed neutron production invented at DLNP at JINR

A senior researcher at the Laboratory of Nuclear Problems at JINR Sergey Dolya created a new method for producing neutrons using a pulsed neutron generator. The proposed device would be durable and emit no radiation when turned off.

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Review of Particles and Nuclei, Letters, #6 2025

The JINR Publishing Department has issued the sixth part of this year's volume of the "Physics of Elementary Particles and Atomic Nuclei, Letters" journal that includes articles with the results of theoretical, experimental, scientific and technical, methodical, and applied research.

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Tributes

Statue of Academician Alexander Mikhailovich Baldin unveiled in Dubna

The sculpture of a JINR founding father is placed at the intersection of Leasysa and Internationalnaya Streets. JINR Director Grigory Trubnikov, Dubna Head Maxim Tikhomirov, and Alexander Baldin's son, Head of a VBLHEP department Anton Baldin attended the opening ceremony.



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Albert Tavkhelidze – theorist, mentor, and organizer of scientific activities

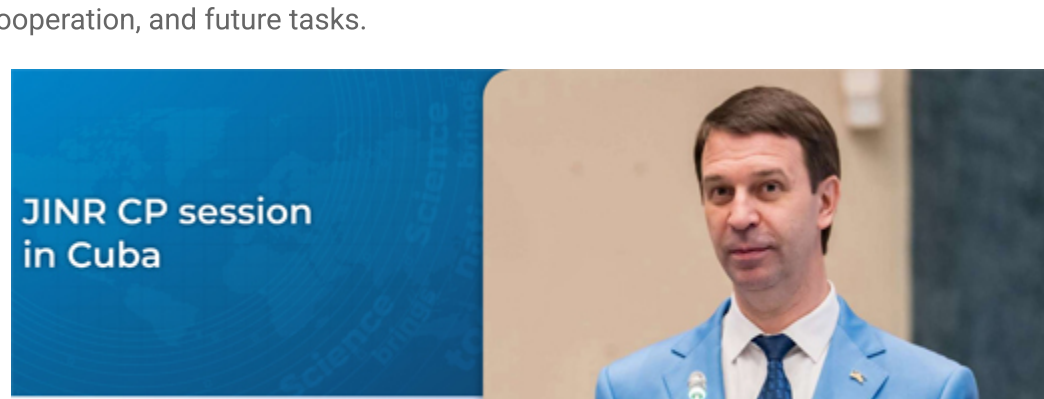
16 December marked the 95th anniversary of the birth of one of the founders and Scientific Leader of the Institute for Nuclear Research of the Russian Academy of Sciences, Plenipotentiary of Georgia to JINR Albert Nikiforovich Tavkhelidze. The article details his career and legacy.

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Media

Video about JINR Committee of Plenipotentiaries

Please enjoy an interview with Institute's Director, Academician of the Russian Academy of Sciences Grigory Trubnikov about the results achieved by JINR scientists over the past 5 years: new large facilities, the role of international cooperation, and future tasks.



[WATCH →](#)

Third episode of Podcast 42 now in VK

The episode features Candidate of Physics and Mathematics, a VBLHEP JINR leading researcher Sergey Merts. Click the link and watch the video about high energy physics and science popularisation. Please note you can watch new episodes a week earlier on JINR's YouTube channel.

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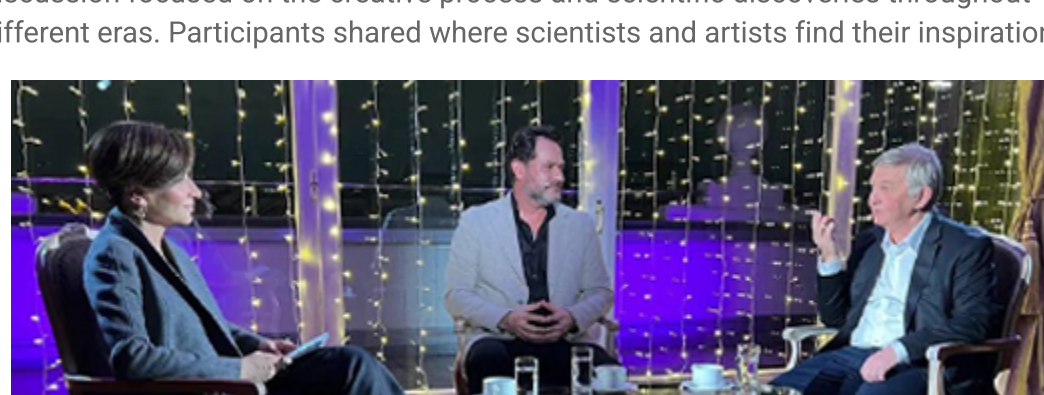
Results of DLNP scholarship competitions

Congratulations to young scientists of the Laboratory of Nuclear Problems at JINR, Aleksandr Boikov and Ivan Suslov, on receiving the Dzelepov and Pontecono scholarships. We wish the laureates continued success in their research endeavours!

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Advisor to FLNP Directorate in TV programme

Sergey Taskev took part in an episode of the Challenge of Sofico show. The discussion focused on the creative process and scientific discoveries throughout different eras. Participants shared where scientists and artists find their inspiration.



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JINR school for South African methodologists

The Institute hosted a scientific school for methodologists of educational centres of South Africa, organized by the University Centre. The video features participants discussing their experience at the event.

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Seminar recordings

We invite you to watch recordings of the seminars "Neutrino experiments at the LHC at CERN" by Sergey Dmitrievsky, "New modelling methods in neutrino astronomy" by Vladimir Allahverdiyev, and "Processes with leptons and jets in p-p and A-A interactions at the LHC" by Olga Kodolova.

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[WATCH² →](#)

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Weekly JINR Newspaper issued

A new issue of the Weekly JINR Newspaper, #48, has been published. Please note that you can read an English version on the JINR Newspaper's website.

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Upcoming Events

Advisory Bodies

- [24 December, JINR Science and Technology Council meeting, JINR, Dubna](#)

Seminars

- [18 December, 11:00 AM, FLNR, "Green synthesis of Sn-doped cerium oxide nanoparticles from agricultural waste for enhanced perovskite solar cell stability" by Zikhona Tywabi-Ngeva](#)
- [18 December, 11:00 AM, DLNP, "Study of the gamma radiation effect on the scintillation properties of an inorganic BaF₂ scintillator doped with yttrium" by Il'ya Vasilyev](#)
- [18 December, 11:00 AM, MLIT, "Modelling interaction processes of high energy heavy ions with metals using a combination of thermal spike and molecular dynamics methods" by Zafar Tukhliyev](#)
- [18 December, 3:00 PM, FLNP, "Iron borate single crystals: synthesis, effects, and high-tech applications" by Mark Strugatsky](#)
- [19 December, 11:30 AM, VBLHEP, "On the way to the Super Tau Charm Factory" by Alexey Zhemchugov](#)
- [22 December, 3:30 PM, BLTP, "Few-body problems and Van der Waals molecules" by Elena Kolganova](#)
- [23 December, 11:00 AM, MLIT, "Methods of analysis of processes with leptons and jets with the CMS Detector at the LHC" by Olga Kodolova, "Statistical analysis of the evidence of the dimuon resonance at 28 GeV in the CMS at the LHC" by Alexander Nikitenko](#)
- [24 December, 11:00 AM, DLNP, "JUNO Experiment progress"](#)

Culture

- [11 December – 11 January, Daily from 1:00 to 7:00 PM \(except Monday\), JINR Mir Cultural Centre. Painting and handicraft exhibition](#)
- [18 December, 6:00 PM, JINR Universal Public Library, English speaking club](#)
- [18 December, 6:30 PM, JINR Universal Public Library, Scrapbooking club's meeting](#)
- [18 December, 7:00 PM, JINR Universal Public Library, Summer Reading List book club](#)
- [19 December, 6:00 PM, JINR Universal Public Library, JINR Cinema Club](#)

[ALL JINR EVENTS →](#)