JINR Newsletter #46, 10 December 2025

Dear colleagues and friends,

Cuba's 50th anniversary as a JINR Member State was recently celebrated in Havana. As an organization that belongs to each Member State, the Institute intends to allocate increasingly more resources to developing cooperation and advancing science in Cuba. Plans include an upcoming JINR Information Centre in the country and a collaborative research laboratory.

The JINR–Brazil Joint Coordination Committee held its first meeting, aimed at discussing organizational aspects that would pave the way to conducting cooperative studies in a short period of time. In addition, an agreement on expanding scientific cooperation was signed between JINR and Mexican research organizations.

Read about the recent JINR–Latin America workshop, results of a session of the Committee of Plenipotentiaries of the Governments of the JINR Member States, the Institute's participation in the V Congress of Young Scientists, and much more in the latest JINR Newsletter.

Telegram
@jinroofficial

Cooperation

Golden jubilee: 50 years of JINR–Cuba cooperation

A celebration took place in Havana in honour of the 50th anniversary of Cuba joining JINR. The event gathered representatives of the Government of the Republic of Cuba, JINR Member States, scientific community of Latin American countries, and leading Cuban scientists whose careers began in Dubna.

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JINR–Cuba: new steps towards cooperation development

A JINR delegation, led by Director Grigory Trubnikov, held meetings with representatives of Cuban Ministry of Higher Education and Ministry of Science, Technology and Environment. The parties discussed the prospects for expanding international scientific and technological collaborations.

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JINR–Mexico agreement on project implementation signed

A JINR delegation visited the Secretariat for Sciences, Humanities, Technology, and Innovation (Secihti) in Mexico City. At the meeting, a bilateral agreement on expanding scientific cooperation was signed between JINR, Secihti, and the Institute of Nuclear Sciences of the National Autonomous University of Mexico.

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First JINR–Brazil JCC meeting took place

On 1 December, the inaugural meeting of the Joint Coordination Committee between JINR and the Brazilian Ministry of Science, Technology and Innovation was held in a hybrid format. The participants defined the operating rules and appointed experts responsible for mutual research areas.

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Conferences & Meetings

Preparation for polarisation experiments at NICA discussed at VBLHEP

On 26 November, VBLHEP hosted a workshop on future experiments with polarised beams at the NICA Accelerator Complex. Scientists discussed advances in spin control, beam intensity, and polarisation technologies, including the spin transparency mode and Siberian snakes.

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Partnership for future: JINR–Latin America international workshop took place in Cuba

At the event, researchers presented studies conducted in Dubna and Latin American countries, along with talks about the prospects for participation in international initiatives. The purpose of the workshop was to strengthen scientific ties and discuss opportunities for project implementation.

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JINR at V Congress of Young Scientists in Sirius

The event held in Sirius gathered over 9000 people from 100 countries. JINR scientists participated in sessions on global science competitiveness, international cooperation, and scientific collaboration beyond politics.

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Cuba hosted international school on hadron structure and hadronic matter physics

The event was organized by JINR and institutions of Cuba and Mexico. Fifty-eight students and young scientists studied theoretical and experimental physics related to NICA Collider experiments. The event aimed at developing collaboration with Cuban colleagues and focused on advanced QCD and detector technologies.

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Tributes

Henryk Niewodniczański, discoverer of magnetic dipole radiation

Henryk Niewodniczański (1900–1968) was one of the JINR founders, discoverer of magnetic dipole radiation, and a pioneer in nuclear physics in Poland. He headed the Institute of Nuclear Physics in Kraków and contributed significantly to atomic spectroscopy and low energy physics.

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Media

Yuri Oganessian: "We are on the threshold of discovering new elements"

In an interview coinciding with the release of the Mendeleev documentary, the FLNP JINR Scientific Leader highlighted how periodic law opened doors to understanding the microworld. Yuri Tsolakovich discussed groundbreaking element discoveries, the impact of science on society, upcoming studies, and the role of young researchers.

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When science turns into audio art

On 6 December, the decade silence project presented the acoustic trace album at Dom Radio in Saint Petersburg, featuring sounds and vibrations from the Synchrophasotron, Ivankovo Hydroelectric Power Station, Pushchino Radio Astronomy Observatory, and Nano-Fomitsk broadcast relay station.

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Dubna University graduate discusses work at JINR

A junior researcher at the Laboratory of Nuclear Problems Ivan Sustov gave an interview to the newspaper of Dubna State University. He discussed his experience working at the Experimental Department of Nuclear Spectroscopy and Radiochemistry.

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Complete data archive of unique Daya Bay Experiment revealed

An international collaboration studying reactor electron antineutrinos in the Daya Bay Experiment opened access to a complete data archive. Scientists from all over the world can now analyse, recreate the results of data processing, use them in joint or global analysis, or test their theories using experimental data.

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Results of VBLHEP scholarship competitions

Congratulations to all recipients of the Balden, Veksler, and Markov scholarships. We wish laureates continued success in their research endeavours!

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JINR at first Moscow Interdisciplinary Congress

Last week, at Sechenov University, experts of the Laboratory of Radiation Biology presented their research in Experimental Nuclear Medicine 2.0 section covering radiobiology, radiation effects in thyroid cancer, and novel ways to improve radiation therapy and nuclear medicine effect.

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A day in JINR history

The JINR Telegram channel shared another archival photo of the Institute. Take a look at the founder and first FLNR JINR Director Georgy Flerov giving a talk at the Meeting on the Synthesis and Search for Transuranic Elements. The photo was taken by Yuri Tumanov 49 years ago, on 9 December 1976.

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FLNP Conference of Young Scientists and Specialists started

On the first day, 13 talks were presented, focusing on various areas of nuclear physics, condensed matter physics, reactor and accelerator physics and engineering, and life sciences. Everyone interested is invited to the second day of the conference, on 11 December, in the FLNP conference hall.

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Seminar recording

We invite you to watch a recording of the seminar "A "theoretical" landscape for high energy physics experiments" by Gennady Kozlov.

WATCH →

Upcoming Events

Workshops & Conferences

- **9–11 December**, Conference of young FLNP scientists and specialists, JINR, Dubna
- **15–17 December**, Workshop on physics performance studies at NICA (NICA-2025), JINR, Dubna

Training

- **8–17 December**, JINR scientific school for methodologists of educational centres of South Africa, JINR, Dubna

Seminars

- **11 December**, 11:00 AM, DLNP, "New modelling methods in neutrino astronomy: transport of neutrinos and light in the medium" by Vladimir Allakhverdian
- **12 December**, 11:30 AM, VBLHEP, "Processes with leptons and jets in p-p and A-A interactions at the LHC" by Olga Kodolova
- **15 December**, 11:00 AM, BLTP, Journal club
- **15 December**, 3:30 PM, BLTP, "Recent applications of self-consistent Skyrme DRPA to nuclear dynamics" by Valentin Nesterenko
- **17 December**, 11:00 AM, DLNP, "Measurement of inclusive cross sections of direct generation of charmonium states J/ψ and J/ψ(3686) in the BESIII Experiment" by Olga Bakina

Culture

- **11 December – 11 January**, Daily from 1:00 to 7:00 PM (except Monday), JINR Mir Cultural Centre, Painting and handicraft exhibition
- **11 December**, 6:00 PM, JINR Universal Public Library, NotaMi studio piano concert
- **11 December**, 6:00 PM, JINR Universal Public Library, English speaking club
- **11 December**, 7:00 PM, JINR Universal Public Library, Harizon book club
- **12 December**, 6:00 PM, JINR Universal Public Library, JINR Cinema Club
- **12 December**, 7:00 PM, JINR Scientists' Club, Jazz concert
- **13 December**, 4:00 PM, JINR Universal Public Library, TED Talks: New Year around world
- **14 December**, Moscow, Russia, Trip by JINR Scientists' Club
- **14 December**, 6:00 PM, JINR Mir Cultural Centre, Concert performance
- **16 December**, 6:00 PM, JINR Scientists' Club, JINR Film Union

Sports

- **13 December**, 11:00 AM, JINR Nauka Stadium, Table tennis tournament in memory of Alexander Weinstein

ALL JINR EVENTS →

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