

## JINR Newsletter #17, 6 May 2026

Dear colleagues and friends,

A delegation of the Joint Institute discussed cooperation development with Belarus as part of a working visit. Potential areas of collaboration include both fundamental and applied research, set to enrich the scientific knowledge of both parties.

This year's expedition to build the Baikal-GVD Neutrino Telescope established a record in terms of optical modules installed: with 756 new modules, the facility reached a volume of 0.8 km<sup>3</sup>. On 6 April, data collection began, paving the way for future studies in the field.

Find out more about an archaeological study by the Laboratory of Neutron Physics at JINR, a new program for improving the efficiency of neutron activation analysis, registration for the Modern Problems of Condensed Matter Theory conference, and much more in the latest JINR Newsletter.

JINR Press Office



### Cooperation

#### JINR delegation paid working visit to Belarus

On 27 April, the Institute's representatives visited the State Committee on Science and Technology and the National Centre of Intellectual Property of Belarus. Topping the agenda were prospective areas for joint work with the country's organizations.



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### Flagship Projects

#### Record 756 optical modules in one season: discussing results of 2026 Baikal expedition

Participants of the Baikal-GVD Collaboration reported on the success of the latest expedition to build the neutrino telescope. Twenty-one new strings were installed, the facility's volume reached 0.8 km<sup>3</sup>, and data collection began.

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### Research

#### Nuclear physics and machine learning for archaeology

Scientists of the Laboratory of Neutron Physics at JINR and their colleagues from Russia and Egypt used neutron activation analysis at the IBR-2 Reactor and machine learning algorithms to determine the elemental composition of 149 ceramic fragments from the 13th–17th centuries. More details are available on the JINR website.



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#### JINR developed software to improve efficiency of neutron activation analysis

FLNP researchers patented a new program for verifying processed gamma spectra and correcting radionuclide libraries. The software allows for interactive verification of the results of complex spectrometric measurements while minimising errors.

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### Announcements

#### Condensed matter theory conference invites applications

Until 15 May, [registration](#) is open for the Modern Problems of Condensed Matter Theory international conference. The event will take place at the Laboratory of Theoretical Physics at JINR on 13–17 July.



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#### Credo choir concert

On 7 May, the JINR Mir Cultural Centre will host a concert by the Credo chamber choir, dedicated to the anniversary of the Joint Institute for Nuclear Research. Tickets are available on the [website](#) and at the centre's ticket office.

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#### Second lecture from Meridian of Interaction series

On 7 May, at 18:00, the JINR Scientists' Club will host a lecture entitled "After the congress: new interaction in Soviet politics" by Candidate of History Alexander Fokin. The admission is free.

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### Media

#### April in JINR's history

The JINR Telegram channel shared another post dedicated to important dates in the Institute's history. Throughout the years, this spring month saw outstanding discoveries, the construction of new facilities, and the launch of computers. You can learn more about each event by opening the photos.



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#### Interviews with MLIT veterans: Nikolay Dikusar

A leading researcher at the Laboratory of Information Technologies Nikolay Dikusar has worked at the Joint Institute since 1966. Over the years, he authored over 80 articles and developed the basis element method. In the video, he discusses his career in Dubna, colleagues, and key scientific projects.

[WATCH →](#)

#### New art object in Dubna

As part of the *dsgn sense* olympiad, a light projection was created for a JINR hotel wall on Moskovskaya Street. The designer, Alexandra Korbankova, reframed the map of the science city and visualised its mood.



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#### Seminar recordings

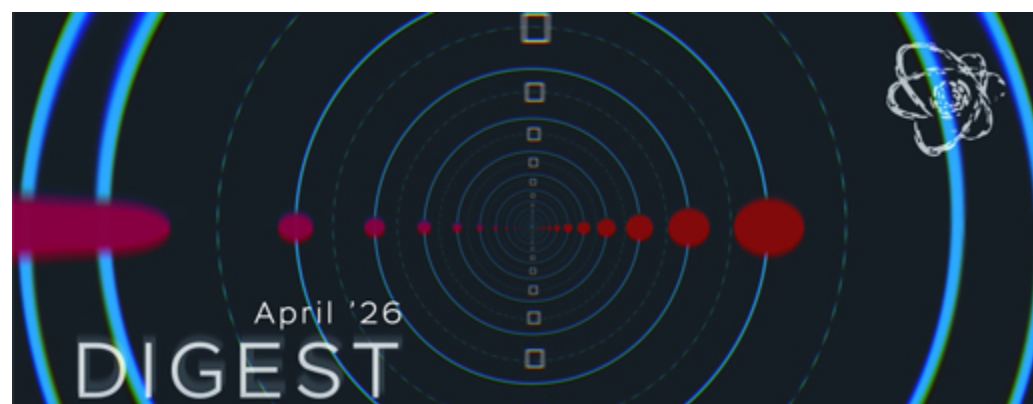
We invite you to watch the recordings of talks "Study of Bose-Einstein correlations in proton-proton interactions at energies of 0.9, 7, and 13 TeV in the ATLAS Experiment at the LHC<sup>1</sup>" by Elena Plotnikova and "Achievements in hypernuclear and strange particle physics<sup>2</sup>" by Dmitry Krivenkov.

[WATCH<sup>1</sup> →](#)

[WATCH<sup>2</sup> →](#)

#### AYSS event digest

AYSS has published the event digest for April with details about the "Young scientists – young doctors" project, Days of Physics festival, e-book collection available for AYSS members, and much more.



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#### Weekly JINR Newspaper issued

A new issue of the Weekly JINR Newspaper, #18, has been published. Please note that you can read an English version on the JINR Newspaper's website.

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### Upcoming Events

#### Meetings

- [12–14 May, JINR, 16th Collaboration Meeting of BM@N Experiment at NICA Facility](#)

#### Seminars

- [7 May, 16:00, BLTP, "Renormalisation group functions in higher orders of perturbation theory: calculations and applications" by Alexander Bednyakov](#)
- [12 May, 11:00, MLIT, "How math can help quantum computing" by Arsen Khvedelidze, "Schemes and programs of the finite element method for solving boundary value problems for models of molecular and nuclear physics" by Alexander Gusev](#)
- [13 May, 11:00, BLTP, "Scattering amplitudes in nonrenormalisable models: from Fermi theory to multidimensional supersymmetric Yang-Mills theories" by Artur Borjakov](#)
- [13 May, 11:00, MLIT, "Simulation and coordinate reconstruction in microstrip tracking detectors of the BM@N Experiment" by Dmitry Baranov, "Development of the CREST Conditions DB for the ATLAS Experiment" by Mikhail Mineev](#)
- [13 May, 15:00, DLNP, "Unlocking the mysteries of dark matter and neutrinos deep underground" by Liu Jianglai](#)

#### Culture

- [26 March – 1 June, JINR Mir Cultural Centre, The First Star, the Birth of a New Interaction exhibition](#)
- [7 May, 18:00, JINR Scientists' Club, "After the congress: new interaction in Soviet politics" lecture](#)
- [7 May, 19:00, JINR Universal Public Library, Summer Reading List book club](#)
- [7 May, 19:00, JINR Mir Cultural Centre, Credo choir concert dedicated to 70th JINR anniversary](#)
- [11 May, 17:00, JINR Mir Cultural Centre, Military band concert](#)

[ALL JINR EVENTS →](#)