

## JINR Newsletter #17, 8 May 2024

Dear colleagues and friends,

Last week, the Joint Institute and the Rosatom Russian State Atomic Energy Corporation discussed issues of cooperation and joint projects. Strengthening ties with the scientific community from other JINR Member States was considered at a meeting of the JINR Science and Technology Council.

In addition, JINR summarised the results of the 2024 expedition to build the Baikal-GVD Deep-Underwater Neutrino Telescope.

In the new issue of the JINR Newsletter you will also learn about the scientific achievements of the JINR employees and the terms of participation in international conferences and schools of the Joint Institute, and find a new edition of May wallpapers from the JINR Telegram Channel.



### Advisory Bodies

#### STC JINR discussed structure of international cooperation and personnel involvement

On 26 April, the JINR International Conference Centre hosted a meeting of the JINR Science and Technology Council. Participants listened to a report by JINR Director Grigory Trubnikov and discussed new rules of implementing international cooperation. In addition, a presentation of awards to JINR employees and Dubna teachers took place.

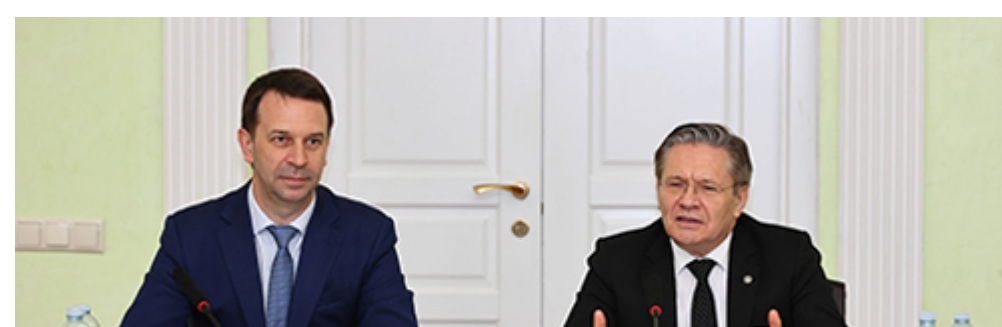


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### Cooperation

#### JINR – Rosatom: cooperation development and prospects

On 27 April, a meeting took place in Dubna to discuss the status and prospects of cooperation between JINR and the Rosatom State Corporation. As part of the event programme, a ceremony was held to present Rosatom badges of honour to employees of the Joint Institute for Nuclear Research.



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### Flagship Projects

#### Another Baikal-GVD Telescope construction expedition on Lake Baikal finishes

During the 2024 winter expedition, organized by JINR and the Institute for Nuclear Research of the Russian Academy of Sciences, researchers installed another telescope cluster, deployed two intercluster strings, repaired and upgraded the previously installed detector elements, laid two bottom cable lines, and much more.



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### Research

#### DLNP JINR and Institute of Physics of SFU carry out joint research of Mössbauer Effect in amorphous solids

A DLNP JINR employee Ksenia Antokhina and scientists of the Research Institute of Physics of the Southern Federal University (Rostov-on-Don, Russia) are studying samples of ion-exchange resin to test the possibility of using the nuclear gamma resonance method to study the specifics of processes occurring in amorphous solids.



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#### Preliminary computations for promising JINR pulsed reactor made

The JINR Publishing Department has issued a preprint "Preliminary Computations for the Pulsed Reactor IBR-4. Basic Composition". The authors are FLNP JINR researchers Yuri Pepelyshev, Alexander Vinogradov, Anatoly Rogov, and Davaasuren Sumkhuu.

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### JINR Achievements

#### Article by FLNP JINR scientists among most cited works of international academic journal

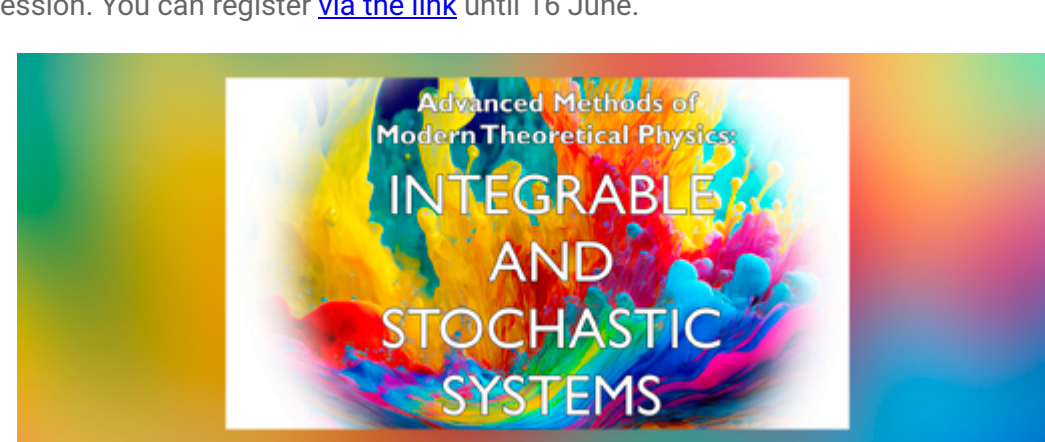
The study by FLNP researchers Wael Badawy, Andrey Dmitriev, and Valery Lobachev, "Formation of reference groups for archaeological pottery using neutron activation and multivariate statistical analyses", was published in *Archaeometry*, a prestigious scientific journal of the University of Oxford, and became one of the most cited articles in 2022-2023.

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### Conferences

#### Applications for school on advanced methods of modern theoretical physics invited

The event will take place at BLTP at JINR from 21 to 26 July. Participants – Master's and PhD students – will listen to lectures on quantum field theory methods, stochastic methods, integrable systems and make presentations at the poster session. You can register [via the link](#) until 16 June.



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#### Registration for Baikal Summer School opens

The event will take place from 10 to 17 July. Participants will listen to lectures, participate in discussions, make presentations. Master's and PhD students as well as undergraduates are invited to participate. You can submit your applications [via the link](#) until 31 May 2024.

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#### JINR Element 105 Workshop at Summer School invites participants

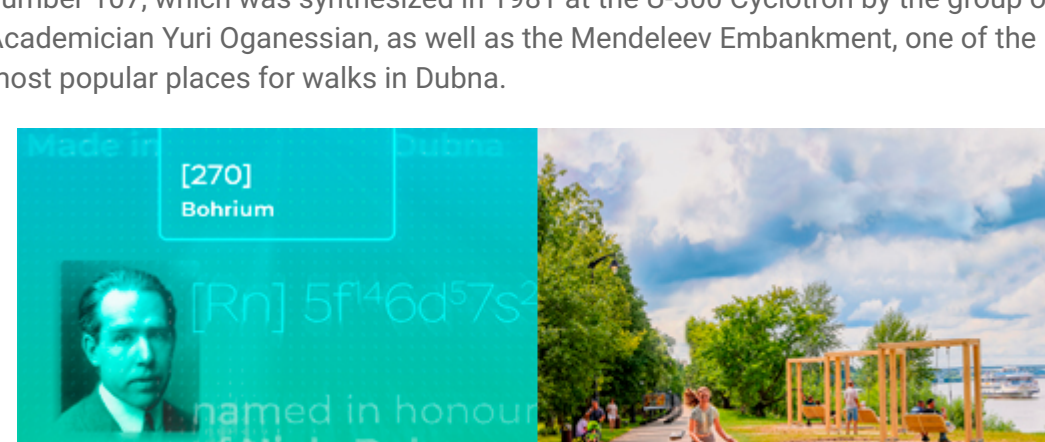
Applications for various workshops of the Summer School, an annual educational programme for schoolchildren and students, are now being accepted. From 21 July to 5 August, the JINR 105 Element Workshop will open at the School. You can register until 20 May inclusive [via the link](#).

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### Media

#### May wallpapers for your smartphones

The new issue of the JINR wallpapers features borium, an element with atomic number 107, which was synthesized in 1981 at the U-300 Cyclotron by the group of Academician Yuri Ognessian, as well as the Mendelev Embankment, one of the most popular places for walks in Dubna.



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#### Rosatom awards presented at meeting on cooperation development

During the meeting on 27 April, a ceremony took place to present badges of honour of the Rosatom Russian State Atomic Energy Corporation to the JINR employees. The participants discussed joint work in the synthesis of superheavy elements, the maintenance of the IBR-2 Reactor, the creation of a cyclotron complex, and other fields.

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#### Interview with JINR scientist

Read the interview of DLNP JINR Deputy Director Dmitry Naumov to the Poisk (English "The Search") newspaper about the joint work of Naumov and Chinese researchers, the Baikal-GVD Neutrino Telescope, and other experiments.

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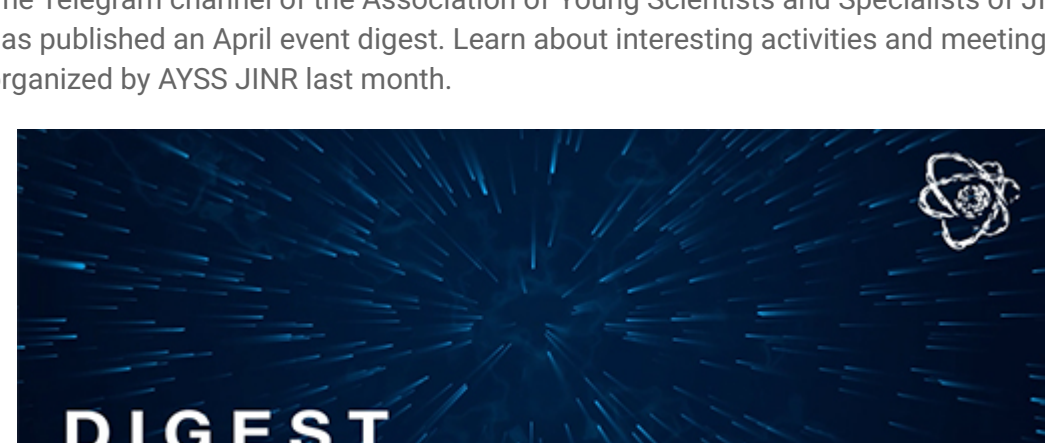
#### Seminar recording

We offer you to watch a recording of the seminar "Communication strategy of scientific organization: fifth wheel?" by Irek Suleymanov.

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#### AYSS April Digest

The Telegram channel of the Association of Young Scientists and Specialists of JINR has published an April event digest. Learn about interesting activities and meetings organized by AYSS JINR last month.



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#### Video about past week JINR and Dubna events

We offer you to watch a video review of highlights from the life of the Institute and Dubna.

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#### JINR Weekly Newspaper issued

A new issue of the JINR Weekly Newspaper #16-17 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

- **13 – 15 May** FLNP JINR – CSNS (China) Workshop on the neutron scattering technology and multi-disciplinary research. JINR, Dubna
- **13 – 17 May** 12th Collaboration Meeting of the BM@N Experiment at the NICA Facility, Satbayev University, Almaty
- **13 – 18 May** RAS Council on physics of heavy ions. Nizhny Novgorod

#### Seminars

- **13 May, 11:00 AM**, BLTP, "Few-nucleon systems in the Bethe-Salpeter formalism" by Sergey Bondarenko
- **14 May, 4:00 PM**, BLTP, "Enhanced Kitaev exchange in Co-chains of pyroxene SrCoGe<sub>2</sub>O<sub>6</sub>" by Pavel Maksimov
- **15 May, 11:00 AM**, DLNP, "Analytical calculations of electroweak corrections for processes of type 2 – 2" by Leonid Romyantsev
- **15 May, 11:00 AM**, FLNP, "Exploring role of nuclear structure effects in photofission mechanism of <sup>237</sup>Np" by Mehdi N. Nasrabadi
- **15 May, 11:00 AM**, BLTP, "Radiative effects with hard photon radiation in some lepton-proton and Moller scattering processes" by Alexander Ilyichov

#### Culture

- **23 April – 19 May**, Daily from 1:00 to 7:00 PM (except Monday), JINR Cultural Centre "Mir", Fine arts exhibition
- **9 May, 7:00 PM**, JINR Universal Public Library, Summer Reading List book club
- **11 May, 3:00 PM**, JINR Cultural Centre "Mir", "Time to be the first" recital
- **12 May, 5:00 PM**, JINR Cultural Centre "Mir", "Russian guitar music" concert

#### Sports

- **9 May, 2:00 PM**, JINR Nauka Stadium, Chess tournament
- **11 May, 11:30 AM**, JINR Sports Club, JINR open weightlifting competitions

[ALL JINR EVENTS →](#)