

JINR Newsletter #40, 23 October 2024

Dear colleagues and friends,

JINR continues to strengthen ties with both new partners and Member States. The Institute signed two cooperation agreements with scientific and educational organizations of Brazil and conducted a course for representatives of the JINR Member States.

The Joint Institute co-organized two major conferences on radiobiology and mathematical modelling, each gathering more than 150 participants.

The latest JINR Newsletter also features an article about a memorial seminar in honour of the 80th anniversary of the birth of the outstanding scientist Alexei Sissakian, science news, and an extensive Media section.



Cooperation

JINR – Brazil: new cooperation agreements signed with CNEN and University of Southern Bahia

The signing of the agreements took place on 15 October as part of the visit of representatives of Brazil universities to JINR. This will open up new opportunities to conduct joint research and train young specialists.



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JINR held course for Member States' representatives

From 7 to 11 October, the first programme entitled "Introduction for the Plenipotentiaries' Offices and Officials Responsible for Liaison with JINR" was held. The participants learned about the Institute's research infrastructure, listened to lectures by representatives of offices and departments, and met JINR leadership.

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Conferences & Seminars

Latest research in radiomodifiers discussed at JINR

On 16–18 October, JINR hosted an international conference titled "Current problems in radiation biology. Modification of radiation-induced effects", organized by the Russian Academy of Sciences and LRB at JINR. More than 150 participants from the leading radiobiology research centres of eight countries discussed radioprotectors and radiosensitisers.



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MMCP2024 Conference held in Yerevan

From 21 to 25 October, the Mathematical Modelling and Computational Physics Conference is taking place in Armenia. The event, organized by JINR, Alikhanyan National Science Laboratory, Yerevan State University, and the Institute for Informatics and Automation Problems, gathered scientists from 18 countries.

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"We all loved him": memorial seminar in honour of 80th anniversary of birth of Alexei Sissakian

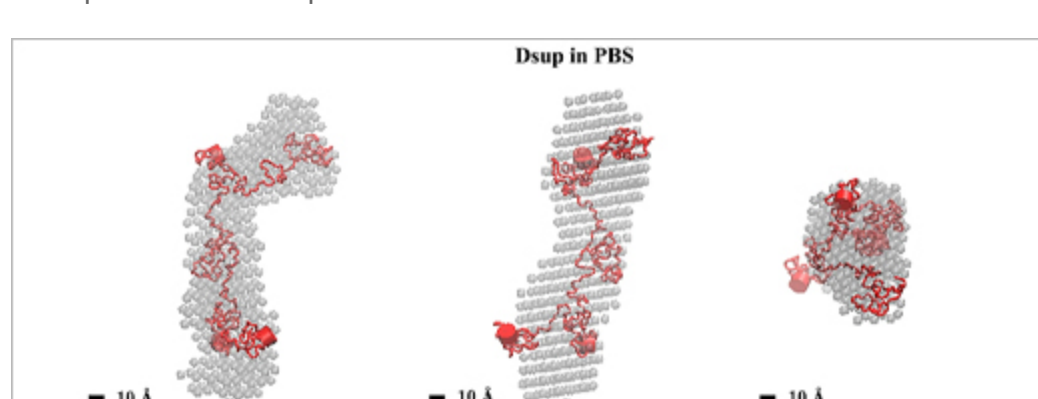
The event was held on 18 October to commemorate the outstanding scientist, JINR Director in 2006–2010. The participants reminisced about the professional merits and personal virtues of Alexei Sissakian.

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Research

First experimental study of structural properties of tardigrade protein carried out at JINR

Scientists from DLNP and FLNP at JINR, Moscow Institute of Physics and Technology, and the University of South Florida (USA) pioneered in studying the structural properties of the tardigrade protective protein, Dsup (Damage suppressor), and the protein-DNA complex.



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Condolences

Condolences on passing of Fernando Guzman Martinez

On 16 October, the remarkable Cuban physicist Professor Guzman passed away. The JINR leadership and scientist's colleagues extend their condolences for the loss of JINR's close friend who made a great contribution to the cooperation between Cuba and the Joint Institute.

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Announcements

DLNP JINR to help students prepare graduate research projects

The Laboratory of Nuclear Problems at JINR invites undergraduate, master's, and postgraduate students to train and get assistance in writing their theses. Participation in the project can provide an opportunity to start a career at the Institute.

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Media

Current problems in radiation biology discussed at JINR

The conference took place on 16–18 October at JINR with more than 150 specialists from leading institutes, research centers, and universities of eight countries. We invite you to watch a video about the event. Please note that English subtitles are available.



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MPD Collaboration: preparing for first stage of experiment

The biannual collaboration meeting took place from 14 to 16 October at VBLHEP at JINR. Participants discussed key issues regarding the Multi-Purpose Detector of the NICA Accelerator Complex. Please enjoy a video about the event.

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International conference with JINR participation

The Biomembranes 2024 conference took place from 7 to 11 October with about 400 participants from various countries, including researchers from the Joint Institute. The event discussed the latest achievements in integrative structural biology, biotechnology, drug discovery, and optogenetics.

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Joint Institute researcher at Russian-Chinese meeting

FLNP JINR employee, AYSS JINR member Maria Petrova participated in the first Sino-Russia Meeting on Frontiers of Neutron Scattering (SRNS-2024) held in Ekaterinburg on 8–11 October. The participants listened to reports on the peculiarities of scattering stations of Russian and Chinese neutron centres.



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Seminar recording

We invite you to watch the recording of the seminar "Trigger of heavy B-hadrons in the ATLAS Experiment and measurement of CP-violating phase ϕ_s in $B_s^0 \rightarrow J/\psi\eta$ decay" by Vladimir Lyubushkin.

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A day in JINR life

The JINR Telegram channel published a post featuring an archive photograph with Engineer Vladislav Sukhanov during tests at FLNP JINR cryogenic moderator taken exactly 25 years ago, in October 1999. Please enjoy the photo and its description.

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Video about past week JINR events

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

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JINR Weekly Newspaper issued

A new issue of the JINR Weekly Newspaper #40 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

- **21 – 24 October**. 2nd module of scientific school "New materials and technologies for advanced energy systems". JINR, Dubna
- **21 – 25 October**. International Conference "Mathematical Modelling and Computational Physics 2024" (MMCP2024). Yerevan, Armenia
- **28 October – 1 November**. 28th International Scientific Conference of Young Scientists and Specialists (AYSS-2024). JINR, Dubna
- **28 October – 1 November**. Scientific School of Physics Teachers of North Ossetia – Alania and Rostov Regions. JINR, Dubna

Seminars

- **24 October, 11:00 AM**. DLNP. "Timepix detector-based micro-SPECT system for research on laboratory animals" by Vladislav Rozhkov
- **24 October, 11:30 AM**. VBLHEP Dissertation Council. "Production of n^0 and K^0 mesons in argon-nuclear interactions at 3.2 AGeV in the BM@N Experiment at the Nuclotron" by Vasilii Plotnikov
- **24 October, 12:30 PM**. BLTP. "Non-singular de Sitter cosmology from non-supersymmetric AdS instability conjecture" by Cao Hoang Nam
- **25 October, 3:00 PM**. DLNP. "Intrinsic charm and D^* , D^0 asymmetry in proton-proton collisions" by Gennady Lykasov
- **28 October, 3:30 PM**. BLTP. "Translationally invariant shell model description of exclusive $(p, 2p)$ and $(p, 2n)$ processes" by Alexei Larionov
- **30 October, 11:00 AM**. DLNP. "Search for quantum black holes using ATLAS Detector" data by Zoya Karpova

Culture

- **2 – 27 October**. Daily from 1:00 to 7:00 PM (except Monday). JINR Mir Cultural Centre. Exhibition of wood art
- **24 October, 7:00 PM**. JINR Universal Public Library. Summer Reading List book club
- **25 October, 5:00 PM**. JINR Universal Public Library. 75th anniversary celebration
- **25 October, 6:30 PM**. JINR Universal Public Library. Scrapbooking club's meeting
- **26 October, 2:00 PM**. JINR Universal Public Library. Interactive performance as part of 75th anniversary celebration
- **27 October, 5:00 PM**. JINR Mir Cultural Centre. Concert of "Steinway invites" series
- **27 October**. Pyotr Fomenko's workshop & theatre. Trip by JINR Scientists' Club

For Kids

- **25 October, 5:00 PM**. JINR Universal Public Library. Little Owls children's book club
- **26 October, 5:30 PM, 6:30 PM**. JINR Museum of History of Science and Technology. "Pendulums" classes

Sports

- **26 October, 10:00 AM**. JINR Nauka Stadium. Table tennis tournament in memory of Sergey Zinkevich
- **27 October, 10:30 AM**. JINR Sports Club. Open kettlebell lifting tournament in memory of Yuri Maslobov

[ALL JINR EVENTS →](#)