

## JINR Newsletter #41, 19 October 2023

Dear colleagues and friends,

This week, the Joint Institute is truly bursting with conference life. JINR is holding a youth IT school and a conference devoted to molecular genetic research in radiobiology. In addition, the institute hosted a bright international JINR-India workshop, the participants of which were welcomed by H. E. Pavan Kapoor, Ambassador of India to Russia, who paid JINR a visit.

Scientific research, successes of scientists in sports and, of course, the Media section are waiting for you in the latest issue of the JINR Newsletter.

JINR Press Office



## Breaking News

### Ambassador Extraordinary and Plenipotentiary of Republic of India to Russia visited JINR

On 16 October, Ambassador Extraordinary and Plenipotentiary of the Republic of India to Russia, H. E. Pavan Kapoor met with the JINR leadership headed by JINR Director RAS Academician Grigory Trubnikov to discuss aspects of strengthening JINR-India cooperation.



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## Conferences

### JINR-India workshop taking place at Joint Institute

On 16 October, a workshop "India-JINR: Frontiers of Basic and Applied Research" started at the JINR International Conference Centre. Scientists from leading universities and research centres of India are participating in the event online and in person. In total, the event brought together about 200 participants.



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### Conference on molecular genetic research in radiobiology started at JINR

The event is taking place on 19 - 20 October at the JINR International Conference Centre. The conference is devoted to the discussion of modern experimental data on the formation mechanisms of genetic and epigenetic changes in cellular structures exposed to ionising radiation at different doses and the consequences of these changes.

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### Autumn school on information technology started at MLIT at JINR

Participants – senior students – are exploring modern methods and technologies of information processing and analysis, as well as algorithms of machine learning and AI, getting acquainted with mathematical modelling and numerical methods for solving JINR applied tasks, and choosing topics for their future research projects.

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## Research

### Egyptian students recovered rare-earth element from wastewater during internship at JINR

As part of the internship organized by the JINR University Centre, students of the British University in Egypt and Cairo University together with the employees of FLNP at JINR carried out work on the recovery of the rare-earth element terbium from wastewater. They used two types of sorbents: indium oxide nanoparticles and the biological sorbent spirulina.

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## Academic Degrees

### Diplomas of Candidates of Sciences awarded at festive ceremony at JINR Scientists' Club

JINR scientists Nguyen Dan Tung, Kirill Novikov, Kirill Gikal, and Nikolay Voltishin received diplomas on conferring academic degrees. By tradition, representatives of the JINR Qualification Committee, guests and scientific secretaries of Dissertation Councils participated in the festive event.



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## JINR Community

### JINR Cinema Club

This Friday, on 20 October, at 6:00 PM, you can watch a French film "Fear and Trembling" (2003). Everyone is welcome! Please note that the JINR Cinema Club will be held at the JINR Universal Public Library.

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## Sports

### JINR streetball team succeeds at regional Spartakiade

The Institute's streetball team consisting of Mikhail Matveev, Vasily Semin, and Alexey Chebikin took second place in the penultimate stage of the Spartakiade among the Dubna's sports teams. We congratulate the participants with an excellent result and wish them further athletic victories!



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## Media

### Filming at JINR for NTV

Recently, a filming of the NTV TV channel project has taken place at VBLHEP at JINR. In an interview, JINR Director RAS Academician Grigory Trubnikov spoke about prospects for the participation of scientists from Russia in international megascience projects and opportunities to do big science within the country.



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### Alexander Mazhuga's film about JINR released

We would like to invite you to watch a popular science film about the research conducted at VBLHEP and FLNP at JINR, made by the team of RAS Professor Alexander Mazhuga as part of the MAGNet: All About Science and Technology project.



[WATCH ON VK →](#)

[WATCH ON YEN →](#)

[WATCH ON RUTUBE →](#)

### New podcast by RIA Novosti with JINR scientist

Why is the density of dark energy the same everywhere in the universe? Can it be a cosmological constant? Anton Baushev (BLTP) answered these and other questions in a new episode of the popular science podcast "We will all die. But we are not sure".

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### JINR scientist at Tomsk State University and on Tomsk TV

An FLNP researcher Inga Zinicovskaia gave a lecture at the Science O'Clock School for Young Scientists based at Tomsk State University. The scientist also participated in a morning show on the Tomsk Time TV channel. She spoke about the environmental project by students under her supervision and the importance of science popularisation.

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### Video about past week JINR events

We would like to offer to your attention a video review of bright events from the life of the Institute and Dubna.

[WATCH →](#)

### JINR Weekly Newspaper issued

A new issue of the JINR Weekly Newspaper #39 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

- 16 – 19 October. India-JINR Forum: Frontiers of Basic and Applied Research. JINR, Dubna
- 16 – 20 October. JINR School of Information Technologies. MLIT at JINR, Dubna
- 19 – 20 October. Conference "Molecular genetic research in radiobiology. On 70th anniversary of DNA structure discovery". JINR International Conference Centre, Dubna
- 23 – 27 October. SPD Collaboration Meeting and Workshop on Information Technology in Natural Sciences. Samara University, Samara

### Seminars

- 20 October, 10:00 AM, VBLHEP. Lecture series on training of accelerator complex operators. Control system. Synchronisation system
- 20 October, 11:00 AM, BLTP. "Radiation effects of first and second orders within framework of Standard Model for modern experimental programs" by Yuri Vystritsky
- 20 October, 11:00 AM, VBLHEP. "Front-end electronics for mini Beam-Beam detector" by Lucio Fidel Rebolledo-Herrera (University of Puebla, Mexico)
- 20 October, 2:00 PM, BLTP. "Quantum mechanics made with quaternions: speculations and perspectives" by Sergio Giardino (Federal University of Rio Grande do Sul, Porto Alegre, Brazil)
- 20 October, 11:30 AM, VBLHEP. "Joint SRC and HyperNIS Experiments" by Maria Patsyuk and Alexander Averyanov
- 23 October, 10:00 AM, VBLHEP. Lecture series on training of accelerator complex operators. Thermometry and cryomagnetic system
- 23 October, 11:00 AM, BLTP. Journal Club. "Asymptotic Safety Guaranteed at Four Loop" by Alina Mukhaeva
- 24 October, 3:00 PM, DLNP. "Genomic research at JINR facilities" by Kristina Afanasyeva and Anastasia Rusakovich
- 25 October, 11:00 AM, DLNP. "The 2023 Nobel Prize in Medicine: molecular genetic technologies that became the basis for a vaccine against Covid-19" by Alena Yakhnenko
- 25 October, 2:00 PM, BLTP. "Recent advances in effective quantum gravity" by Ilya Shapiro (Federal University of Juiz de Fora, Brazil)
- 26 October, 11:00 AM. Meeting of DLNP Dissertation Council. "Investigation of neutron backgrounds in low-background experiments using new methods" by Dmitry Ponomarev
- 26 October, 12:30 PM, BLTP. "Maximal supersymmetric quantum mechanics" by Andrey Smilga (SUBATEX, Nantes, France)

### Culture

- 3 October – 5 November, daily from 1:00 PM to 7:00 PM (except Monday). JINR Cultural Centre "Mir". Exhibition of mosaics
- 16 October – 1 December, daily from 2:00 PM to 7:00 PM (except Saturday and Sunday). JINR Scientists' Club. "Artist paints Dubna" exhibition
- 19 October, 7:00 PM. JINR Universal Public Library. Hairpin book club; discussing a book "Pachinko" by Min Jin Lee.
- 20 October, 6:00 PM. JINR Universal Public Library. English speaking club
- 20 October, 6:00 PM. JINR Universal Public Library. JINR Cinema Club
- 20 October, 6:00 PM. JINR Universal Public Library. Scrapbooking club
- 20 October, 7:00 PM. JINR Scientists' Club. Classical music concert
- 21 October, 6:00 PM. JINR Cultural Centre "Mir". Concert by chamber orchestra
- 21 October, 7:00 PM. JINR Universal Public Library. Recital of parables and ethnic music
- 26 October, 7:00 PM. JINR Universal Public Library. Summer Reading List book club; discussing a book "Three Cups of Tea" by Greg Mortenson and David Oliver Reelin
- 26 October, 7:00 PM. JINR Cultural Centre "Mir". "Sleeping Beauty" ballet

### For Kids

- 21 October, 4:00 PM. JINR Universal Public Library. Children's research project "Archimedes Fear"
- 21 October, 5:00 PM. JINR Universal Public Library. Let's READers

[ALL JINR EVENTS →](#)