

SCIENCE BRINGS NATIONS TOGETHER



JOINT INSTITUTE FOR NUCLEAR RESEARCH

## JINR Newsletter #31, 27 October 2022

*Dear colleagues and friends,*

*Two important conferences are taking place at JINR this week. At the first of them, the RAS Scientific Council is discussing topical problems of radiation biology. The scientific youth gathered for a regular AYSS JINR Conference. Also recently, JINR representatives took part in an international conference on nuclear safety.*

*Tomorrow, on 28 October, the Joint Institute will celebrate the 65th anniversary of the Laboratory of Neutron Physics.*

*How research by Dubna theorists can make weather forecasts more accurate, what is new in the JINR Infocenters, how cooperation develops - read about this and much more in the new issue of the JINR Newsletter. And (attention!) we also have launched the information service of JINR catering enterprises.*

**JINR Press Office**



**Telegram**  
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## Breaking News

### **Celebrating anniversary of RAS Scientific Council on Radiobiology**

On 25 October, an anniversary conference "Current problems in radiation biology. To the 60th anniversary of the RAS Scientific Council on Radiobiology" began. The first day of the Conference was dedicated to the anniversary plenary session in honour of the 60th anniversary of the RAS Scientific Council establishment.



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### **At conference “Current problems in radiation biology”**

The conference “Current problems in radiation biology” is being held from 25 to 27 October. Participants are presenting reports on the prospects for the development of radiobiology, issues of space radiobiology, the introduction of new drugs into medical practice, issues of modern radiation therapy, and much more.

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## **JINR Information Centres**

### **About NICA project for future scientists of North Caucasus**

More than 300 schoolchildren and students from Vladikavkaz, Nalchik, Stavropol, Maykop, and Grozny joined the JINR online broadcast on 21 October. Students got acquainted with the NICA Accelerator Project and took an online tour of the Laboratory of High Energy Physics JINR.



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## **Cooperation**

### **Ho Chi Minh City getting closer: JINR delegation visit**

These days, the JINR delegation is on a working visit to the Socialist Republic of Vietnam. Participants are discussing further steps to develop the JINR-Vietnam cooperation, in particular, as part of the agreement on the participation of the Institute in the creation of the first research reactor in the SRV.



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### **New JINR partners: National University Ho Chi Ming**

On 26 October, the JINR delegation together with colleagues from the Vietnam Academy of Science and Technology and scientific institutes of the VINATOM system visited the Vietnam National University of Ho Chi Minh City to discuss prospects for cooperation. JINR representatives spoke about the joint work with VINATOM on the development of the scientific programme and experimental tools for a research reactor, the construction of which will begin soon.

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### **Arctic expedition launched a new cooperation**

The Laboratory of Neutron Physics JINR will cooperate with scientific and educational organizations of St. Petersburg. The cooperation in the use of nuclear physics methods in microbiological monitoring of the environment and complex epidemiological studies of diseases was discussed at a scientific seminar at the Northwestern State Medical University named after I. I. Mechnikov.

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## **Conferences**

### **JINR hosting conference of Young Scientists and Specialists**

On 24 October, the XXVI International Scientific Conference of Young Scientists and Specialists (AYSS-2022) started at MLIT JINR. Scientists are delivering lectures on the recent theoretical, experimental, and applied research conducted all over the world with emphasis on the major results obtained at JINR.



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### **JINR in solving urgent issues of our time**

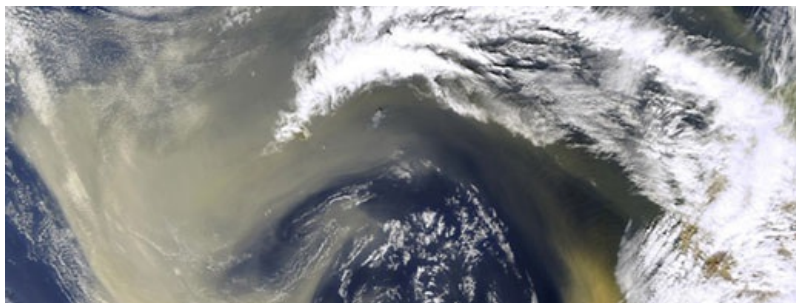
On 20 October, the conference “Prevention of nuclear war in the context of an arms control crisis” was held. It was attended by members of the Youth Branch of the Russian Pugwash Committee under the Presidium of the Russian Academy of Sciences, where AYSS is represented, and JINR representatives. Participants discussed issues of nuclear security in the world and the current situation of geopolitical tension. In addition, as part of the conference, JINR representatives spoke at the webinar “Communication, ethics, and the future of scientific cooperation”.

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## **Research**

### **Theoretical physics helps to make weather forecasts more accurate**

BLTP JINR researchers advanced in studies of turbulent movements in liquids and gases. It turned out that this might be useful for making weather forecasts more accurate and calculate the trajectory of industrial emissions, since computer calculations are used for it based on equations of theoretical physics.



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### **News of MEG II experiment**

The MEG II experiment with muon beams takes place at the Paul Scherrer Institute (PSI). After the modernisation, the first half-year run of the experimental data set began in June 2022. DLNP JINR staff members are taking an active part in the run, which, due to the high degree of automation, is carried out mainly in a remote access mode.

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## **About JINR key events**

### **Meeting of State Duma Committee on Science and Higher Education at JINR**

On 20 October, an extended guest meeting of the State Duma Committee on Science and Higher Education was held at JINR site. At the meeting, participants discussed the potential of science cities for the scientific and technological development of Russia. Deputy Chairman of the Committee on Science and Higher Education Yekaterina Kharchenko shared her impressions about the visit to Dubna, the Joint Institute, and the meeting results.



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### **Anniversary seminar of Vladimir Kekelidze**

On 21 October, the Laboratory of High Energy Physics hosted the international scientific seminar "Study of matter through kaons and baryons" dedicated to the 75th anniversary of JINR Vice-Director Vladimir Kekelidze.

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## **Celebrating Dark Matter Day**

### **Dark Matter Day at Blokhinka**

On 31 October, Dark Matter Day will be celebrated for the sixth time in Dubna. Participants of the event will try to understand the mysteries of dark matter and present the research and experiments that may help to solve the puzzle.





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#### **Thematic exhibition about dark matter**

The JINR Science and Technology Library invites all interested to the thematic exhibition "The Universe. Cosmology. Dark Matter" in honour of Dark Matter Day. The exhibition presents 150 Russian and foreign books, monographs, collections on this topic.

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## **Education**

#### **Excursions to JINR**

The JINR University Centre organizes weekly excursions to the Institute for schoolchildren, students, and teachers. Many people express deep gratitude for the opportunity to visit the Institute, students write reviews about their impressions. One student shared her impressions in the review "How to get to the island of stability?"

[READ MORE ➡➡](#)

## **Announcements**

#### **New service of JINR catering enterprises**

The Hotel and Restaurant Complex Management Office, the Department of Science Organization Activities, and the Development of Digital Services Department have launched a bilingual information service of JINR catering enterprises. Now you can learn about menus on the JINR website.



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#### **FLNP anniversary seminar**

The Directorate of the Frank Laboratory of Neutron Physics is delighted to invite you to the seminar dedicated to the 65th anniversary of the establishment of the Laboratory. The event will be held at the JINR International Conference Centre, where scientists will talk about the scientific research of the Laboratory.



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## People of JINR

### Crossing swords to find friends

The Dubna Kendo Club invites everyone who wants to learn the art of Japanese fencing to practice! Training takes place at the JINR Stadium "Nauka" on Tuesday, Friday, and Sunday. You are welcome! The club is looking forward to every new kendoka!



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### "Guttenberg's Smoking Room" meeting

Blokhinka invites all interested to "Guttenberg's Smoking Room" meeting, where non-fiction books are retold and discussed. This is a great opportunity to learn the main thoughts of books and understand if it is interesting to read more. The meeting will be held on 29 October at 6:00 PM.

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### Konversationsklub Deutsch by AYSS

Haven't you practiced German for a long time? Would you like to speak this language with like-minded colleagues, discuss various topics, and thus broaden your vocabulary? Or probably it is time when you told yourself, "Why not learn German?" In this case the Association of Young Scientists and Specialists of JINR invites you to the German Speaking Club! The first meeting will take place on 31 October, at 6:30 PM, at the JINR Scientists' Club. It is planned to hold Konversationsklub Deutsch once a week in the future.

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## Remembering founders

### Ilya Frank

On 23 October 1908, an outstanding scientist Academician Ilya Frank was born. He was a laureate of the Nobel Prize, an organizer and longstanding Head of the Laboratory of Neutron Physics JINR.



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## Sports

### Victory of JINR team

The JINR team won the third place in the 8th stage of the Dubna City Championship among physical culture teams in streetball. The event was held on 22 October at the Raduga Sports Complex. Congratulations to our team!



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## Media

### TV programme filmed at FLNP

Watch the new story of “Black Holes. White spots” programme on Cultura Channel or Smotrim.ru service. The story, filmed at the Laboratory of Neutron Physics JINR, concerns how neutrons help find origins of Alzheimer's disease. The research have shown that amyloid plaques, which were previously considered the cause of the disease, are actually the result of disorders of the membranes of neurons. There is hope that this interaction of amyloid with the membrane can be controlled.



[MORE details in the programme ➡➡](#)

### Record of seminar

We offer you to watch the record of the seminar “Scientometric indicators of a scientist” from a seminar series “Lifehacks of some use for a scientist”, which took place on 21 October, at 11:00 AM. You can learn about scientometrics and how it can be useful to a scientist.

**WATCH →**

### **JINR Weekly Newspaper issued**

New issue of the JINR Weekly Newspaper #41 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**

- [\*\*22 – 27 October 2022\*\*, International Conference “Close prospects on superheavy element research”. Dilijan, Armenia](#)
- [\*\*24 – 28 October 2022\*\*, XXVI International Conference of Young Scientists and Specialists \(AYSS-2022\). MLIT JINR, Dubna](#)
- [\*\*25 - 27 October 2022\*\*, International Conference “Current problems in radiation biology. To the 60th Anniversary of the Scientific Council of the Russian Academy of Sciences on Radiobiology”. International Conference Centre, Dubna](#)
- [\*\*29 October – 2 November 2022\*\*, Workshop on Theoretical Physics. Cairo, Giza, Egypt](#)

### **Seminars**

- [\*\*27 October 2022\*\*, at 11:00 AM, DLNP. “Developing the clusterization algorithm for pixel detectors for FPGAs” by A. V. Lapkin](#)
- [\*\*27 October 2022\*\*, at 4:00 PM, BLTP. “Mass hierarchy of leptons and quarks as hidden symmetry” by Sergey Kovalenko](#)
- [\*\*27 October 2022\*\*, at 4:00 PM, JINR Scientists' Club. AYSS seminar series: “What is common between digitisation and procurement?” by Mikhail Vasiliev](#)
- [\*\*28 October 2022\*\*, at 11:00 AM, DLNP. “Poster and presentation design” by Marina Mishchenko](#)
- [\*\*28 October 2022\*\*, at 11:30 AM, VBLHEP. “Polarisation in relativistic heavy-ion collisions” by Victor Riabov](#)
- [\*\*28 October 2022\*\*, at 4:00 PM, BLTP. “On the decay widths of radially excited scalar meson  \$K\_0^\*\(1430\)\$  in view of new experimental data” by Kanat Nurlan](#)
- [\*\*28 October 2022\*\*, at 2:00 PM, FLNP. Seminar dedicated to the 65th anniversary of FLNP](#)
- [\*\*31 October 2022\*\*, at 11:00 AM, BLTP. “Rashba-like physics in condensed matter” by Kaushal Kumar Kesharpur](#)

### **Culture**

- [\*\*27 October 2022\*\*, at 7:00 PM. JINR Universal Public Library. Book club “Summer Reading List”: discussing the book “The Murder of Roger Ackroyd” by Agatha Christie](#)
- [\*\*28 October 2022\*\*, at 7:00 PM. JINR Scientists' Club. Performance of literary theatre “Word's Academy”](#)
- [\*\*29 October 2022\*\*, at 6:00 PM. JINR Universal Public Library. “Guttenberg's Smoking Room” meeting](#)
- [\*\*30 October 2022\*\*, at 5:00 PM. JINR Cultural Centre “Mir”. Concert “The](#)



[Musical Universe of Eduard Grach"](#)

- [31 October 2022](#), at 6:30 PM. JINR Universal Public Library. [Dark Matter Day](#)
- [31 October 2022](#), at 6:30 PM. JINR Scientists' Club. [Konversationsklub Deutsch by AYSS](#)
- [2 November 2022](#), at 6:30 PM. JINR Cultural Centre "Mir". [Lecture "The most unusual theatrical costumes"](#)
- [2 November 2022](#), at 7:00 PM. JINR Scientists' Club. [Lecture "Antique motifs of the Silver Age"](#)

#### For Kids

- [29 October 2022](#), at 5:00 PM. JINR Universal Public Library. Meetings ["Engineering"](#), ["Let's READers"](#), and ["Fiction from the third desk"](#)
- [30 October 2022](#), at 11:00 AM. JINR Museum of History of Science and Technology. [Classes about magnetism](#)

**ALL JINR EVENTS →**

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