

SCIENCE BRINGS NATIONS TOGETHER



JOINT INSTITUTE FOR NUCLEAR RESEARCH

JINR Newsletter #16, 14 July 2022

Dear colleagues and friends,

We hope that this week has passed for you under the sign of science and sustainable development, since after all, a few days earlier, the International Year of Basic Sciences for Sustainable Development (IYBSSD 2022) officially started. JINR is the co-organiser of this large-scale project. As for the JINR headquarters in Dubna, a series of informal meetings "Science, Dialogue and Society" started there in the frames of the informal expert science diplomacy club DUBNA GREEN CHAMBER TALKS. At the first meeting of the series, experts from JINR, Brazil, India, Russia, and Vietnam discussed an architecture of cooperation in science on the horizon 2030+.

Summer is a great opportunity to meet with colleagues at a topical conference. Thus, the workshop on Deep Learning DLCP-2022 has been held in Dubna, the conference on theoretical physics SYMPHYS-XVIII is taking place in Yerevan, and the Summer School on Particle Physics and Astrophysics has started on Lake Baikal. The Joint Institute is also preparing to launch the Workshop "Element 105" at the traditional Summer School at the JINR summer camp.

You can take a break from intensive work at the Tourist rally organised with the support of AYSS JINR. Read about this and much more in the new issue of the JINR Newsletter.

JINR Press Office



Breaking News

IYBSSD 2022 ceremonial opening

On 8 July, UNESCO headquarters (Paris, France) hosted the opening ceremony of the International Year of Basic Sciences for Sustainable Development (IYBSSD 2022). JINR is the only scientific organisation in the territory of Russia that has become a co-organiser of the Year IYBSSD 2022.



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Dubna Green Chamber Talks: new models of interaction between science and society

At the JINR site, scientists of the Joint Institute, representatives of diplomatic missions, experts in the field of international relations, humanities, and natural sciences discussed an architecture of cooperation in science on the horizon of 2030 and beyond and the way of strengthening the role of science in politics and society.



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JINR Information Centres

JINR as integration platform for two Russian universities

In June, the University "Dubna" and North Ossetian State University named after K. L. Khetagurov on the basis of which the JINR Information Centre operates, signed an agreement on interregional cooperation in the field of research and educational activities.



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Research

How to increase the neutron flux density up to 200 times?

JINR has received a patent for a unique invention: a cold neutron storage ring, which will increase the density of the neutron flux at the reactor outlet up to 200 times. This will increase the efficiency of solving fundamental problems of microphysics and cosmology, as well as accelerate the material science measurements of magnetic heterostructures.



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X-ray scattering will reveal the secrets of DNA

A rich selection of holders for samples of the Xeuss 3.0 X-ray scattering station in FLNP allows specialists, in particular, to study biological objects in solution. In FLNP JINR, colleagues from Petersburg Nuclear Physics Institute n.a. B. P. Konstantinov have recently conducted a cycle of studies on chromatin, i.e. the contents of the nucleus of a biological cell, where DNA is stored and functions.

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OPERA - 20 years later

This year marks exactly 20 years since the Institute's group joined the search for tau neutrinos in the frames of the international cooperation OPERA. In the frames of this experiment, muon neutrino oscillations were discovered in tau neutrinos.

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Conferences

SYMPHYS-XVIII

Theoretical physicists are discussing modern research on group theoretical methods in physics at the XVIII International Conference on Symmetry Methods in Physics organised by JINR and Yerevan State University in Armenia.



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Milestones of DLCP-2022

More than 130 scientists from research centres of India, Kazakhstan, Mongolia, Poland, Romania, Russia, Serbia, Slovakia, Turkey, Uzbekistan took part in the DLCP-2022 workshop. In total, more than 40 plenary and sessional reports were delivered.

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Education

Hello, Baikal!

On 12 July, the traditional XXII Summer School on Particle Physics and Astrophysics started on Lake Baikal. The event was organised by the Joint Institute for Nuclear Research and the Research Institute of Applied Physics of Irkutsk State University (ISU) on the basis of the ISU research station in the village Bolshiye Koty.



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Best IT students interning at LIT

MLIT JINR hosted an internship for winners of the “Digit.zone|Technological Modernisation” hackathon on “Information Processes”. A team of students of the Institute of System Analysis and Management of the State University “Dubna” had the opportunity not only to get acquainted with JINR, but also to take part in the International Workshop on Deep Learning DLCP-2022, as well as to join JINR projects in the near future.

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JINR participated in MIPT Physics Forum

The Joint Institute took part in the educational Physics Forum of Moscow Institute of Physics and Technology in the frames of the Olympiad “I am a professional”. About 100 students from 20 regions of Russia took part in the forum.

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People

Remembering founders: Tsvetan Vylov

On 13 July, the Joint Institute pays tribute to the memory of the famous Bulgarian scientist, Doctor of Physics and Mathematics, Professor Tsvetan Dimitrov Vylov. Colleagues recall that Tsvetan Vylov's high professionalism as JINR Vice-Director was combined with exceptional human qualities.



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Announcements

JINR Cinema Club

A meeting of the Cinema Club, previously scheduled for 9 July, is postponed to 16 July. This Saturday, 16 July, you can enjoy watching the interesting film

“Who’s Afraid of Virginia Woolf?” by Ernest Lehman in the company of cinemaphiles who have brought back to life the beloved JINR Cinema Club.



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Tourist rally 2022

AYSS invites all fans of sports tourism and outdoor activities to take part in the tourist rally on 15 - 17 July 2022!

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Grant competition

The Ministry of Science and Higher Education invites you to participate in the grant competition in the field of science to ensure scientific research by Russian scientific organisations and higher education organisations together with organisations of CIS countries and former Soviet republics.

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Media

Landing party of young journalists visited NICA

Participants of the student press tour from seven Russian universities, as well as media specialists of the portal “Scientific Russia” visited the NICA accelerator complex. They not only got acquainted with the mega-science project, but also met with its leaders to ask them how it is created and what they will study at NICA, as well as about their personal path in science. All this information is in texts and videos by young journalists.

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AND A BIT MORE →

Graduation at University “Dubna”

The “Universum” TV channel has prepared video reports on how diplomas were awarded to graduates of the Engineering and Physics Institute (EPI) and Dubna School of Engineering (DSE), which are supported by JINR.

WATCH GRADUATION FROM EPI→

WATCH GRADUATION FROM DSE→

JINR Weekly Newspaper issued

New issue of the JINR Weekly Newspaper #26 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

- [10 – 16 July 2022](#), 28th International Conference "Symmetry methods in Physics". Yerevan, Armenia
- [15 – 17 July 2022](#), XXVI Summer School for Young Scientists and Specialists (Lipnya-2022). JINR Tourist Base "Lipnya", Lipnya island, Ivankovskoe reservoir
- [16 – 26 July 2022](#), Multidisciplinary School-Seminar "Summer School and Workshop "Element 105". Recreation Centre "Volga", Dubna
- [18 – 21 July 2022](#), International conference on quantum field theory, high-energy physics and cosmology. BLTP JINR (Dubna)

Seminars

- [18 July 2022](#), at 3:00 PM, JINR Scientists' Club. "Research and optimisation of a thin lithium target for neutron generation" by E.O. Sokolova and "Research and optimisation of transport and acceleration of an ion beam in a tandem accelerator with vacuum insulation" by Ya. A. Kolesnikov

Dissertation Councils

- [15 July 2022](#), at 2:00 PM, MLIT. Defense of the dissertation "Numerical study of the observed dynamic characteristics in models of electron hydration and gas condensate mixture filtration" by A. V. Volokhova and "Research of multipath routing methods to ensure the quality of the network service" by E. P. Stepanov

Culture

- [14 July 2022](#), at 7:00 PM. JINR Universal Public Library. Meeting of the book club "Hairpin": discussing the book "Five Quarters of the Orange" by Joanne Harris
- [16 July 2022](#), at 6:00 PM. JINR Scientists' Club. Cinema Club

ALL JINR EVENTS ➡

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