

SCIENCE BRINGS NATIONS TOGETHER



JOINT INSTITUTE FOR NUCLEAR RESEARCH

JINR Newsletter #13, 23 June 2022

Dear colleagues and friends,

Last week, representatives of key scientific organisations, ministries, and businesses discussed big challenges of the Decade of Science and Technology in the Russian Federation at the 25th St. Petersburg International Economic Forum. Anniversaries will continue this week as well. On 21 June, the JINR Hotel "Dubna" in Alushta turned 55. And on 24 June, it will be 51 years since the opening of the Archimedes Swimming Pool of JINR. We congratulate employees of the JINR Hotel "Dubna" and the Archimedes Swimming Pool of JINR and thank them for providing us with an opportunity to have a health-improving rest and exercise in excellent conditions. "The best in science. Strong in sports!"

The International scientific workshop dedicated to the 20th anniversary of JINR participation in Dimuon Physics Programme within the CMS experiment at the LHC (Dimuons at the LHC) is another notable event of this week, which starts on 23 June. We are looking forward to a new bright report at the AYSS seminar, and if you missed the last one, you can watch the record below. July is ahead: the time of the traditional JINR Youth Conference in the Tourist Base "Lipnya". Read how to get there and much more in our new issue of the JINR Newsletter.

JINR Press Office

P. S. This is our 13th issue of the JINR Newsletter. Well, may the fortune be with us!



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Information of JINR Directorate on current situation

Please, get acquainted with an official information of the Directorate of the Joint Institute for Nuclear Research on the current situation. Latest update: 26 May 2022.

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Breaking News

Grigory Trubnikov at SPIEF: focusing on large tasks in science

JINR Director became one of the speakers at the panel session "Major Challenges of the Science and Technology Decade". At this site of the St. Petersburg International Economic Forum (SPIEF), participants discussed current tasks of the scientific sphere in the Russian Federation for the

upcoming years in the light of global challenges.



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JINR Information Centres

IT School in North Ossetian State University – meeting place for Information Centres family

From 29 June to 1 July, North Ossetian State University named after K. L. Khetagurov (Vladikavkaz, Russia) will host the IV International Summer School for Young Scientists on the basis of the JINR Information Centre. For the first time, in addition to students from southern universities of the country, representatives of the Information Centre of Kazakhstan, as well as students and managers from Russian universities where JINR Information Centres operate (Kamchatka, the Far East, Tomsk) will take part in the school's work.



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Research

JINR's study of properties of heavy isotopes of hydrogen

Just recently, on 14 June 2022, the Physical Review C journal published the article “ ${}^6\text{H}$ states studied in the ${}^2\text{H}({}^6\text{He}, {}^4\text{He})$ reaction and evidence of an extremely correlated character of the 5H ground state” authored by E. Yu. Nikolskii, I. A. Muzalevskii, A. A. Bezbakh, V. Chudoba, S. A. Krupko, et al. The article is dedicated to the study of the properties of heavy isotopes of hydrogen - ${}^6\text{H}$. Using the advantages of beams of radioactive nuclei obtained at the ACCULINNA-2 new fragment-separator of the Laboratory of Nuclear Reactions JINR, the authors have discovered a broad bump at $\approx 4\text{--}8\text{ MeV}$ in the ${}^6\text{H}$ spectrum above the four-body decay of this nucleon into ${}^3\text{H}+{}^3\text{n}$ decay threshold.



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JINR environmental research in Mongolia aims to improve people's health

Scientists of the Frank Laboratory of Neutron Physics JINR in cooperation with Mongolian scientific centre are conducting environmental research in Ulaanbaatar (Mongolia), one of the dirtiest capitals in the world from an ecological point of view. One of the largest thermal power station in the world is located here operating on brown coal.

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Education

Training of engineering staff

On 20 June, JINR hosted the opening of the 15th International Internship of Young Scientists and Specialists from the CIS countries organised by International Innovation Centre for Nanotechnology of the CIS countries (InINCIS). The Intergovernmental Foundation for Educational, Scientific and Cultural Cooperation of the CIS states (IFESCO) and the Joint Institute for Nuclear Research are the permanent partners of the centre.



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Conferences

JINR-CMS: 20 years of cooperation in the field of dimuon physics

On 23 June, the International scientific workshop dedicated to the 20th anniversary of JINR participation in Dimuon Physics Programme within the CMS experiment at the LHC. Speaking about the topics of the meeting at the opening of the event, Scientific Leader Viktor Matveev highlighted that dimuon physics had served as a basis for the material and intellectual contribution of JINR scientists to the CMS experiment physics programme.

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Lipnya-2022: registration started

The XXVI Summer School for Young Scientists and Specialists (Lipnya-2022) will take place from 15 to 17 July 2022 on the basis of the JINR Tourist Base "Lipnya". The School is organised by the Association of Young Scientists and Specialists of JINR. Registration has been opened, don't miss your chance!

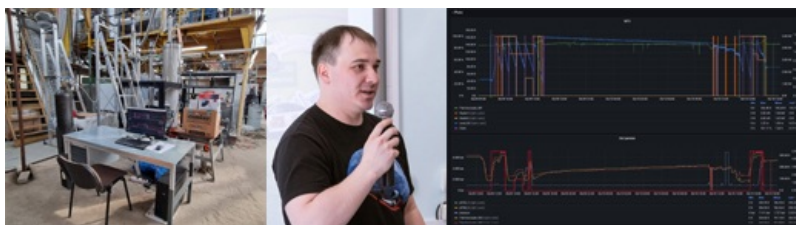


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People of JINR

About monitoring a physical experiment at AYSS seminar

On 23 June, a new fascinating topic will continue the AYSS seminar series: “Monitoring a physical experiment: how to automate your work and start sleeping at night”. Dmitry Egorov (VBLHEP) will talk about detector experiments being created and already working at the NICA accelerator complex from the point of view of an engineer. Dmitry will also speak about modern information technologies and the importance of tea breaks at work.



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95th anniversary of birth of Lev Iosifovich Lapidus

22 June marked the 95th anniversary of the birth of Doctor of Physics and Mathematics, Professor Lev Iosifovich Lapidus. L. I. Lapidus came to Dubna after graduating from MEPhI in 1950 and became one of the most prominent representatives of the first wave of Dubna physicists who stood at the origins of the creation of the Laboratory of Nuclear Problems JINR.

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JINR Cinema Club. It's back!

This Saturday, 25 June, you can enjoy watching the wonderful film “Ilyich's Outpost” by Marlen Khutsiev in the company of cinemaphiles who have brought back to life the beloved JINR Cinema Club.

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Media

Science organisation in JINR discussed at AYSS seminar

If you could not visit the last AYSS seminar, at which Alexey Zhemchugov spoke about the planning and financing of scientific topics and projects, as well as about the organisation of the governing and advisory bodies of the Institute, then you can not only read about it...



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But also you can watch the record of this interesting seminar:

WATCH →

Sports

Our cool rogaine team

JINR staff members Yuri Malyshkin and Anastasia Malyshkina participated in the Royal rogaine on 8 May, where took the 4th and 5th places. They also participated in the Bolshaya Bitsa rogaine on 18 June, where took the 1st place! Rogaining is a team sport that combines strategy and tactics, navigation on rough terrain, as well as physical endurance.



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Dedicated to 51st anniversary of “Archimedes”

On Friday, 24 June, swimming competitions dedicated to the 51st anniversary of the “Archimedes” Swimming Pool will be held.



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Upcoming Events

Conferences

- [23 – 24 June 2022, Dubna. International scientific workshop dedicated to 20th anniversary of JINR participation in Dimuon Physics Programme within the CMS experiment at the LHC](#)
- [23 June 2022, JINR, Dubna. 8th meeting of the NICA Supervisory Board](#)

Seminars

- [23 June 2022](#), at 11:00 AM, VBLHEP. "Comprehensive study of crystal local atomic and electronic structure of base cobalt-oxide compound and HTSP tapes" by V. Efimov
- [23 June 2022](#), at 4:00 PM, JINR Scientists' Club. AYSS seminar series: "Monitoring a physical experiment: how to automate your work and start sleeping at night" by Dmitry Egorov
- [27 June 2022](#), at 11:00 AM, BLTP, Blokhintsev Conference Hall (4th floor). BLTP Journal Club
- [27 June 2022](#), at 3:00 PM, FLNP. "Kurchatov complex for synchrotron and neutron investigations: main areas of work / Applications of modern X-ray methods in studies of liquid interfaces" by S. N. Yakunin and N. N. Novikova
- [28 June 2022](#), at 3:00 PM, FLNP. "Joint meeting of the working group on the development of the concept of the instrument base of a new neutron source, and of STCs of DSC and NICM Departments of FLNP" by V. D. Zhaketov
- [30 June 2022](#), at 11:00 AM, FLNP. "On the possibility of creating a UCN source at a periodic pulsed reactor II" by A. I. Frank

Culture

- [23 June 2022](#), at 7:00 PM. JINR Universal Public Library. Lecture about role-playing movement
- [24 June - 31 July 2022](#), daily from 3:00 to 7:00 PM. JINR Cultural Centre "Mir". Art exhibition by Vlad Kravchuk and Yana Mikhailova
- [24 June 2022](#), at 6:30 PM. JINR Universal Public Library. Dubna intellectual game's club
- [25 June 2022](#), at 6:00 PM. JINR Scientists' Club. Cinema Club
- [26 June 2022](#), at 3:00 PM. JINR Cultural Centre "Mir". Dance premiere "Mutually"
- [30 June 2022](#), at 7:00 PM. JINR Universal Public Library. Meeting of the book club "Hairpin": discussing the book "Medea and her children" by Lyudmila Ulitskaya
- [30 June 2022](#), at 7:00 PM. JINR Cultural Centre "Mir". Concert of music band "Gorod 312"

Sports

- [24 June 2022](#), Archimedes Swimming Pool. Swimming competitions dedicated to 51st anniversary of Archimedes Swimming Pool

ALL JINR EVENTS →

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