

JINR Information Centres

First JINR Information Centre opened in Siberia

On 12 December, a new JINR Information Centre opened at Tomsk Polytechnic University. It will become an "information window" into the Institute's work for Tomsk scientists, students, and schoolchildren. Scientific and educational, as well as popular science events in the field of modern physics will be held there.



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Research

New species of extremophilic bacteria discovered

JINR scientists together with colleagues from the Institute for Nuclear Research of RAS discovered a new species of extremophilic bacteria in an unused tunnel of the Baksan Neutrino Observatory of INR RAS. In the future, this bacterial species can be used to purify soils and wastewater from heavy metals and recover biomass using an inexpensive carbon source methanol.



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Meetings

JINR participated in discussion on problems of radiobiology

At a joint meeting of the Bureau of the Preventive Medicine Section of the RAS Department of Medical Science and the Radiobiological Society of RAS, LRB JINR Scientific Leader Evgeny Krasavin, who took part in the meeting, was awarded the RAS Certificate of Honour for a significant contribution to the development of Russian science in the field of radiobiology.



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Baikal-GVD Collaboration news

From 6 to 9 December, the first offline meeting of the Baikal-GVD International Collaboration in the last three years was held at the Laboratory of Nuclear Problems. More than 55 participants of the Collaboration discussed the current state of the telescope, preparations for the upcoming expedition, the work of the data collection and analysis system, algorithms for event recovery.

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Calculations for large-scale scientific projects discussed at MEPhI

On 14 December, Director of the Laboratory of Information Technologies Vladimir Korenkov made a report at a seminar at the Institute of Cosmophysics of NRNU MEPhI. He spoke about the concept of a global computer infrastructure for storing, processing, and analysing experimental data at the Large Hadron Collider at CERN and the experience of creating a JINR distributed information computing environment.

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Awards

Results of competition for Laboratory scholarships

The Laboratory of High Energy Physics and the Laboratory of Nuclear Problems summed up the results of the competition for scholarships. VBLHEP chose three winners for each of the scholarships, including the A. M. Baldin

Scholarship, the V. I. Veksler Scholarship, and the M. A. Markov Scholarship. DLNP selected one winner for each of the scholarships: the Bruno Pontecorvo Scholarship and the V. P. Dzhelepov Scholarship.

READ MORE about VBLHEP scholarships' results →

READ MORE about Bruno Pontecorvo Scholarship' results 🔿

READ MORE about V. P. Dzhelepov Scholarship' results →

Competition for medals of Russian Academy of Sciences

The Russian Academy of Sciences is holding a competition for medals with prizes for the best scientific works of young scientists and students. Scientific papers in 21 areas of research are accepted. The deadline for applications is set on 30 December 2022.



Celebration

Birthday of Academician Victor Matveev

On 11 December, Victor Anatolievich Matveev, an outstanding theoretical physicist and a science organizer, Academician of the Russian Academy of Sciences, JINR Scientific Leader, turned 81. Academician Matveev actively contributes to the firm enhancement of the research potential of the Institute.



Recalling founders

Henryk Niewodniczański

On 10 December, the Joint Institute for Nuclear Research celebrated the birthday of one of its founding fathers, the renowned experimental physicist of the Polish AS Henryk Niewodniczański (1900–1968). He was member of the JINR Scientific Council in 1956 – 1968. At his suggestion, the Department of Nuclear Spectroscopy and Radiochemistry was established at the Laboratory of Nuclear Problems JINR.

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JINR Community

A book of memoirs of one of IBR-2 Reactor creators published

On 7 December, a presentation of memoirs of a chief researcher of the Laboratory of Neutron Physics JINR Evgeny Shabalin was held at the JINR Museum of History of Science and Technology. He is one of the creators of the IBR-2 High-Flux Pulsed Research Reactor. In his book "On the ship of your dream: notes of a reactor specialist", the author presented his life in colours and spoke in an understandable way about fast neutron reactors.



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Popular science lecture on solid state physics

The JINR Universal Public Library invites everyone interested to a popular science lecture "Solid state physics" by Pavel Maksimov, a senior researcher of the Bogoliubov Laboratory of Theoretical Physics JINR. This branch of physics belongs to condensed matter physics and microscopic physics as a whole. The lecture will take place on 17 December.

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New Year's exhibition fair of handmade by JINR employees

On 17 December 2022, a New Year's exhibition fair of handmade crafts by JINR employees will be held in the JINR Universal Public Library. You can see works of our colleagues and buy them. All are kindly invited!

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JINR Cinema Club

This Friday, on 16 December, you can enjoy watching a fascinating film "Letter from Siberia" (1958) by a French film director Chris Marker. All are kindly invited! Please note that this time the film will be shown in the JINR Universal Public Library.



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New AYSS seminar

The Association of Young Scientists and Specialists of JINR invites you to a new seminar at the JINR Scientists' Club! On 15 December, Head of Innovations and Intellectual Property Department (IIPD) of JINR Igor Lensky will deliver a report "IIPD: invitation to work together". He will speak what can be the key to the success of the Institute in the areas important for it.

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BLTP staff member saved tawny owl

Dmitry Malov picked up the red-listed owl in the JINR territory and brought it to the veterinary station. The bird had a wounded wing, it is undergoing treatment and is already feeling better, eagerly eating crickets and cockroaches from the hands of the doctor. On 15 December, TVC channel showed a coverage about the Dubna owl.

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Education

Students of Bryansk State University visited JINR

On 12 December, as part of the Scientific Map of Russia event, students of Bryansk State University visited the Joint Institute for Nuclear Research. Students visited the Museum of History of Science and Technology of JINR, the JINR Basic Facilities exhibition, the Laboratory of Nuclear Problems, and the Laboratory of Information Technologies.



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Publications

New issue of Particles & Nuclei

The sixth issue of the review journal Physics of Elementary Particles and Atomic Nuclei #6 has been published. In this eminent journal, review articles examine elementary particle physics, problems of vacuum in quantum field theory, condensed matter problems, symmetries in physics, etc.

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Obtaining of nuclear level density and radiative strength functions when analysing (n, $2\gamma)$ reaction

The JINR Publishing Department has released a preprint "Possibility of simultaneous obtaining of the nuclear level density and radiative strength functions when analysing (n, 2γ) reaction" E3-2022-43. The authors presented the empirical analysis for all investigated nuclei when testing versions of model representations of energy dependences of the required nuclear-physical parameters.

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Detector for setting up beam convergence and determining luminosity at the interaction point on the MPD NICA

The JINR Publishing Department has released a preprint "Detector for setting up beam convergence and determining luminosity at the interaction point on the MPD NICA" P13-2022-40. The authors discussed the questions of how to use a detector to adjust beam alignment, the calibration procedure for obtaining absolute luminosity, and others.

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Books

Books from attic in detail

The JINR Universal Public Library presented another old book from the series "Books from the attic in detail". The works of Prince Peter Kropotkin: unique lifetime editions and books published immediately after his death. There is a gift inscription and an autograph of the prince on one of the books.



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ALL Books from the attic issues \Rightarrow

New exhibition in S&T Library

An exhibition of URSS Publishing House books collected over the last 5 years is taking place in the JINR Science and Technology Library from 5 December. The Library is presenting more than 70 monographs on various areas of physics, books on history and philosophy of natural sciences, as well as biographies of outstanding scientists.

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Media

Vladimir Korenkov in Supercomputer Russia programme

MLIT JINR Director Vladimir Korenkov became guest of a new episode of the Supercomputer Russia programme by Pro Business TV channel. He spoke about calculations using the supercomputer "Govorun" in JINR experiments, role of supercomputing in the work of the NICA Project and gave forecast of the role of supercomputing in fundamental research.



WATCH ->

New documentary

The National Film Foundation "Patriot" has released a documentary about the Nobel laureates "Cherenkov, Tamm, Frank: high energy physicists". Watch the film to learn interesting facts about the life of the scientists.

WATCH 🔿

JINR scientist in podcast by RIA Novosti

Head of the Sector of Neutron Activation Analysis and Applied Research of the Laboratory of Neutron Physics JINR Inga Zinicovscaia took part in the podcast "We will all die. But we are not sure". She spoke about the features of biomonitor organisms.

LISTEN 🔿

Film crew at JINR

On 7 December, a film crew of Valdis Pelšs' RD studio worked at JINR. Now JINR will become a part of the Vector of Science documentary dedicated to the 270th anniversary of MSU. The film crew talked with JINR scientists and students of the MSU Faculty of Physics, who got acquainted with scientific facilities of the Joint Institute on the same day.



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Is science cool?

Watch the story of Vladislav Sharov, a junior researcher of the Laboratory of Nuclear Problems. Vladislav spoke about scientific grants and the research he is conducting at the Institute.

WATCH →

Record of DLNP seminar

We kindly invite you to watch the record of the seminar "Magnetic shielding of large photoelectron multipliers for the OSIRIS facility of the JUNO detector" by Oleg Smirnov, which took place on 7 December.

WATCH →

JINR Weekly Newspaper issued

New issue of the JINR Weekly Newspaper #48 has been published. Please note that you can read an English version on the JINR Newspaper's website.

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Upcoming Events

Seminars

• 15 December 2022, at 3:00 PM, BLTP. Seminar dedicated to 85th

anniversary of V. G. Kadyshevsky

- <u>**15 December 2022**</u>, at 11:00 AM, DLNP. "TAIGA experiment: status and prospects" by A. A. Grinyuk
- <u>15 December 2022</u>, at 11:00 AM, FLNP. Meeting of working group on scientific programme of FLNP new neutron source. Proposals for the scientific programme of the new source NEPTUN in the section "Nuclear physics and fundamental properties of the neutron" by N. A. Fedorov
- <u>**15 December 2022**, at 4:00 PM, JINR Scientists' Club. AYSS seminar</u> series: "IIPD: invitation to work together" by Igor Lensky
- <u>**16 December 2022**</u>, at 11:00 AM, DLNP. Lecture of a series of DLNP seminars "Lifehacks of some use for a scientist": "How to make a good talk" by Dmitry Naumov
- <u>**16 December 2022**, at 11:30 AM, VBLHEP. "Hypernuclear and strange</u> particle physics" by Juris Lukstins
- <u>**16 December 2022**</u>, at 2:30 PM, BLTP. "The structure of astrophysical Sfactor and the fusion reactions rates" by V. Sargsyan
- <u>19 December 2022, at 11:00 AM, BLTP. Journal Club: "High fidelity two-</u> <u>qubit gates on fluxoniums using a tunable coupler" by Pavel Maksimov</u>
- <u>**19 December 2022**, at 2:00 PM, BLTP. The third lecture from a series</u> <u>"Gravitational waves and their role in modern physics" by Anton</u> <u>Baushev and Evgeny Davydov</u>

Culture

- <u>24 November 18 December 2022, daily from 1:00 to 7:00 PM (except Monday). JINR Cultural Centre "Mir". Exhibition of macro photography</u> <u>"Hidden Worlds"</u>
- <u>15 December 2022</u>, at 7:00 PM. JINR Universal Public Library. Meeting of the book club "Hairpin": discussing the book "The Woman Who Went to Bed for a Year" by Sue Townsend
- <u>16 December 2022, at 6:00 PM. JINR Universal Public Library. JINR</u> <u>Cinema Club</u>
- <u>**16 December 2022**</u>, at 7:00 PM. JINR Cultural Centre "Mir". Performance by literary theatre "Word's Academy"
- **17 December 2022**, from 12:00 PM to 4:00 PM. JINR Universal Public
- <u>Library. New Year's exhibition fair of handmade by JINR employees</u>
- <u>17 December 2022, at 5:00 PM. JINR Cultural Centre "Mir". Christmas</u> concert by Dubna Symphony Orchestra
- <u>17 December 2022, at 5:00 PM. JINR Universal Public Library. Popular</u> science lecture on solid state physics
- <u>**18 December 2022**</u>, from 12:00 PM till 8:00 PM. JINR Cultural Centre <u>"Mir". New Year's fair</u>
- <u>**18 December 2022**, 6:00 PM. JINR Cultural Centre "Mir". Performance</u> by State Academic choreographic ensemble "Beryozka"
- 21 December 2022, 7:00 PM. JINR Cultural Centre "Mir". Winter concert "Waiting for the miracle"
- <u>22 December 22 January 2022, daily from 1:00 to 7:00 PM (except Monday). JINR Cultural Centre "Mir". Exhibition by JINR Artists' Club</u>

For Kids

• <u>17 December 2022, at 4:00 PM. JINR Universal Public Library. Meetings</u> "Engineering", "Let's READers", and "Fiction from the third desk"

ALL JINR EVENTS →

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