



JINR Newsletter #40, 29 December 2022

Dear colleagues and friends,

The last week of this difficult, unforgettable year is coming to an end. The Institute summed it up at the last meeting of the JINR Scientific and Technical Council of this year.

All of us are already living in anticipation of New Year's miracles and a cheerful holiday with friends and relatives. The Christmas concert of the JINR staff, organized by the Women's Committee, literally charged everyone with this festive mood. By the way, its recording can be found below in the Media section.

The JINR Press Office team wishes you a Happy New Year! We wish you peace, prosperity, and fulfillment of your innermost desires! Let the new year be full of good news! See you in 2023!

JINR Press Office



Advisory Bodies

At STC meeting: results of year and new plans

On 23 December, the last meeting of the JINR Science and Technology Council was held at the JINR International Conference Centre in a mixed format. The subject matter of the meeting was general information about the JINR activity during 2022. Awards were presented to employees of the Institute at the end of the STC meeting.

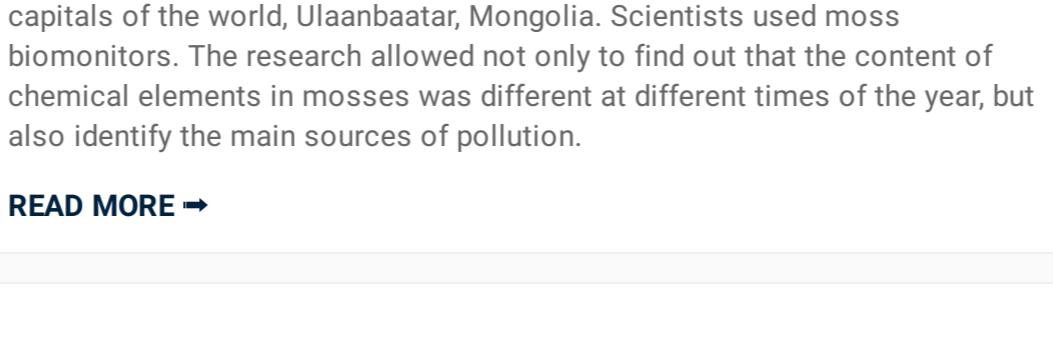


[READ MORE →](#)

Research

Technology developed for NICA became breakthrough in applied field

As part of the NICA Project, colleagues from the Belarussian State University conducted the first low-temperature tests of a niobium superconducting resonator. These tests allowed them to observe the phase transition to the superconducting state. The technology is important not only for the NICA project, but also for numerous applications.



[READ MORE →](#)

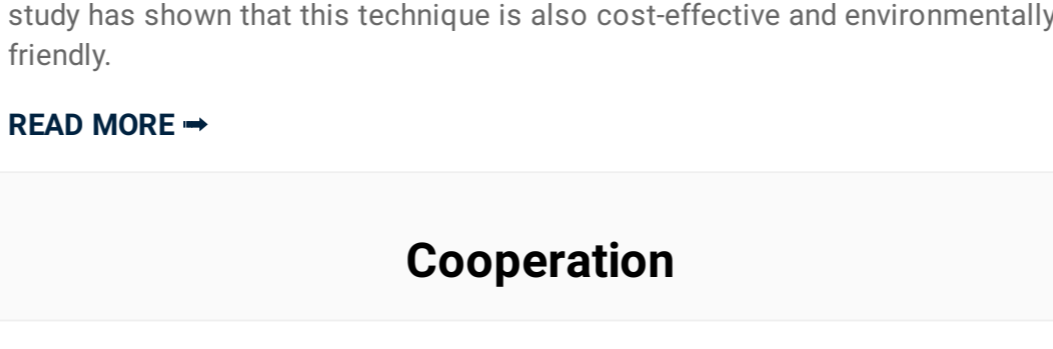
Biomonitoring of air in Ulaanbaatar revealed types and sources of pollution

The scientific group of the Laboratory of Neutron Physics JINR together with the staff of the Institute of Physics and Technology of the Mongolian Academy of Sciences conducted biomonitoring of air in one of the ecologically dirtiest capitals of the world, Ulaanbaatar, Mongolia. Scientists used moss biomonitoring. The research allowed not only to find out that the content of chemical elements in mosses was different at different times of the year, but also identify the main sources of pollution.

[READ MORE →](#)

Working process at VBLHEP JINR Accelerator Complex

The VBLHEP JINR Accelerator Complex provides an experimental facility of BM@N with a beam of xenon ions $^{129}\text{Xe}^{54+}$ with an energy of 3.8 GeV/n. Watch the photos of VBLHEP employees from the control panel of the cryogenic helium complex, the control panel of the Accelerator Complex, and in the experimenters' office of the BM@N/NICA facility.



[READ MORE →](#)

One of top 10 bright scientific events 2022

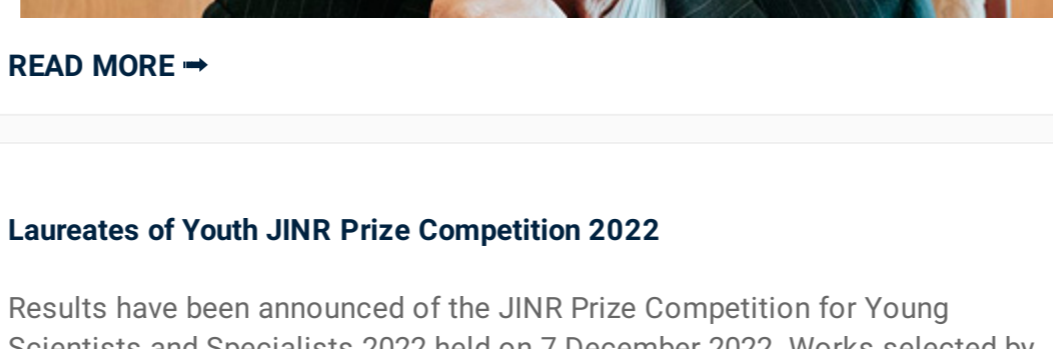
The research by JINR scientists was included in top 10 bright scientific events of 2022 according to popular scientific portal "Scientific Russia". FLNP JINR scientists have found out that ordinary brewer's yeast can act as an effective sorbent for treatment of wastewater contaminated with heavy metals. The study has shown that this technique is also cost-effective and environmentally friendly.

[READ MORE →](#)

Cooperation

New contacts in Egypt and countries of the region

On 17 – 18 December 2022, a JINR delegation took part in the Forum for Foreign Graduates of Soviet and Russian Universities. Heads and Members of Alumni Associations of Soviet and Russian universities, representatives of Russian and foreign universities, as well as ministries and departments of Egypt and other countries of Africa and the Middle East attended the Forum.

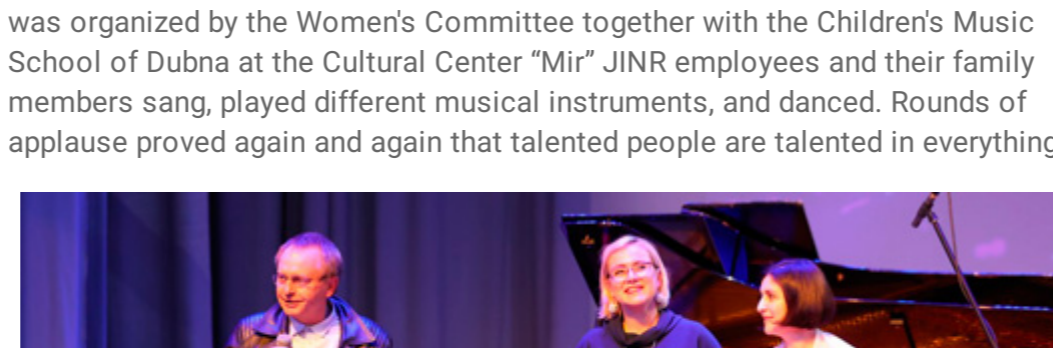


[READ MORE →](#)

Awards

Alexey Rozanov won Demidov Prize 2022

Academician Alexey Rozanov, Head of the LRB JINR Astrobiology Sector, became a laureate of the Demidov Prize 2022. He is honoured the Prize in the Biology nomination for his outstanding contribution to the development of paleontology.



[READ MORE →](#)

Laureates of Youth JINR Prize Competition 2022

Results have been announced of the JINR Prize Competition for Young Scientists and Specialists 2022 held on 7 December 2022. Works selected by the programme committees of two conferences (Aushita-2022 and AYSS-2022) took part in the competition.

[LEARN the results →](#)

City and regional awards for JINR employees!

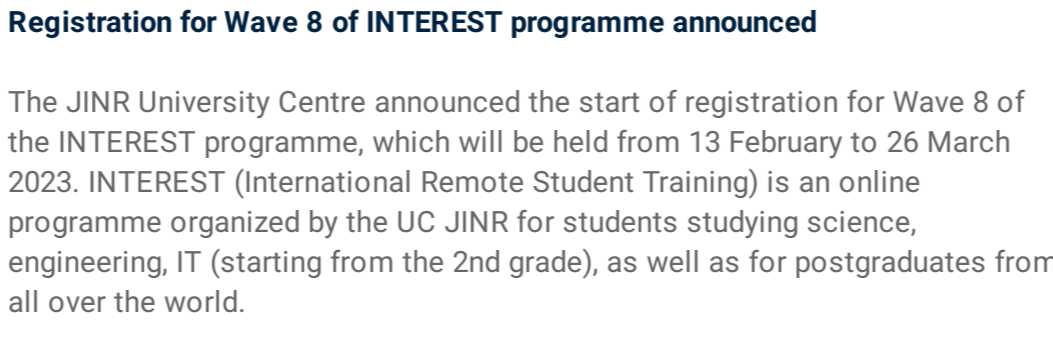
Employees of the Joint Institute were presented with honorary awards of Dubna and the Moscow region. FLNR Deputy Scientific Leader Mikhail Itkis received the Badge of Honour "For Services to Dubna". MLIT Director Vladimir Korenkov and VBLHEP Deputy Director Hamlet Khodzhibagyan were awarded the titles "Honoured Scientist of the Moscow Region".

[READ MORE →](#)

JINR Community

Concert "Harmony of Spheres: Art and Science"

On 27 December, a concert "Harmony of Spheres: Art and Science" was held. It was organized by the Women's Committee together with the Children's Music School of Dubna at the Cultural Center "Mir". JINR employees and their family members sang, played different musical instruments, and danced. Rounds of applause proved again and again that talented people are talented in everything.



[READ MORE →](#)

About Christmas pipe organ concert "Bach and music of Paris cathedrals"

The audience enjoyed fantasias, toccatas, preludes, and fugues by J. S. Bach, as well as music from pipe organ symphonies by composers of the Paris school of XIX – XX centuries. All these pieces were performed by a famous musician Daniel Zaretsky, an Honoured Artist of Russia, a laureate of international contests and the Organist of the Year Award, professor of St. Petersburg University.

[READ MORE →](#)

Publications

JINR News bulletin #4 2022 issued

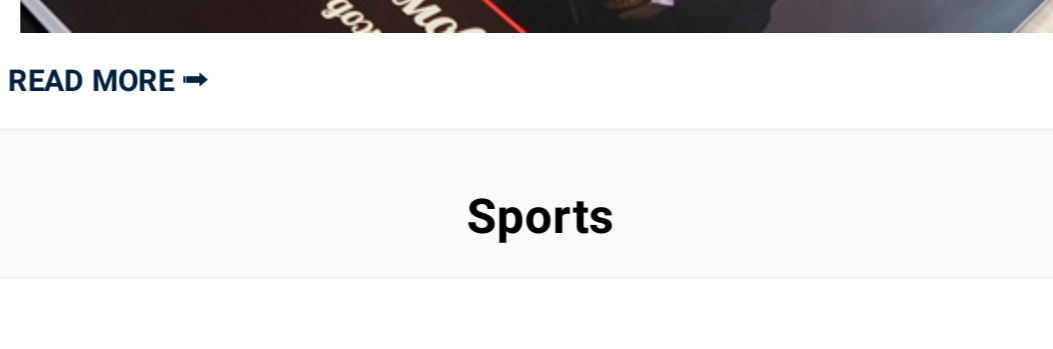
The fourth issue of the JINR News bulletin 2022 has been published. It provides information on new scientific results obtained at JINR Laboratories, progress in performance of large-scale experiments, and the JINR social life.

[READ MORE →](#)

Announcements

JINR Grants for Dubna teachers!

The Joint Institute for Nuclear Research announced an annual city contest of school teachers and teachers of additional education for JINR grants. The competition encourages improvement of the professional level and stimulates creative activities of teachers who implement educational activities on subjects and techniques necessary for training future personnel for JINR. The deadline for applications is set on 24 February 2023.



[READ MORE →](#)

Registration for Wave 8 of INTEREST programme announced

The JINR University Centre announced the start of registration for Wave 8 of the INTEREST programme, which will be held from 13 February to 26 March 2023. INTEREST (International Remote Student Training) is an online programme organized by the JINR for students studying science, engineering, IT (starting from the 2nd grade), as well as for postgraduates from all over the world.

[READ MORE →](#)

AYSS reporting event

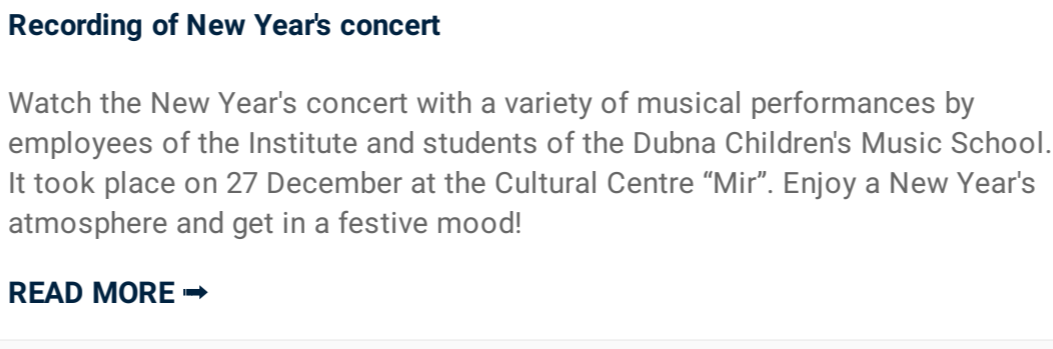
The Association of Young Scientists and Specialists of JINR is pleased to invite AYSS members to the reporting event, which will be held at the JINR Scientists' Club, on 29 December, at 6:00 PM. At this meeting, participants will speak about the results of the AYSS Council's work this year and plans for 2023. This is a good reason to meet together in a relaxed atmosphere, share ideas and news. Registration is required to participate.

[READ MORE →](#)

Education

Tomsk schoolchildren and students learned about JINR projects

On 12 – 14 December, a JINR delegation visited Tomsk Polytechnic University. The business programme of the visit started with the opening of the JINR Information Centre and a working meeting with the TPU management. The parties outlined both possible activity directions of the Infocentre and prospects for the cooperation between JINR and TPU in the fields of scientific research and staff training.

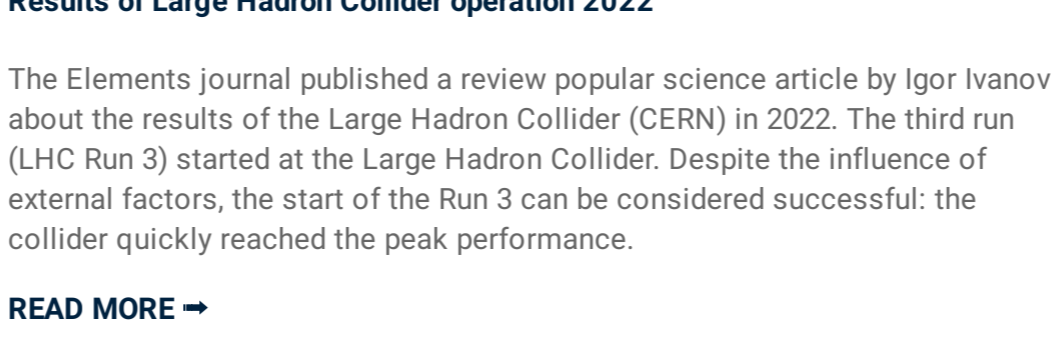


[READ MORE →](#)

Books

Book about outstanding scientist Yulian Budagov

The JINR Publishing Department has released a book "Yulian Aramovich Budagov... promised to live to 100" by DLNP JINR Director Vadim Bednyakov. The book is written in memory of this talented scientist, world-class experimental physicist, science organizer. Yulian Budagov made a significant contribution to the creation of large experimental facilities and obtaining physical results of fundamental scientific significance.

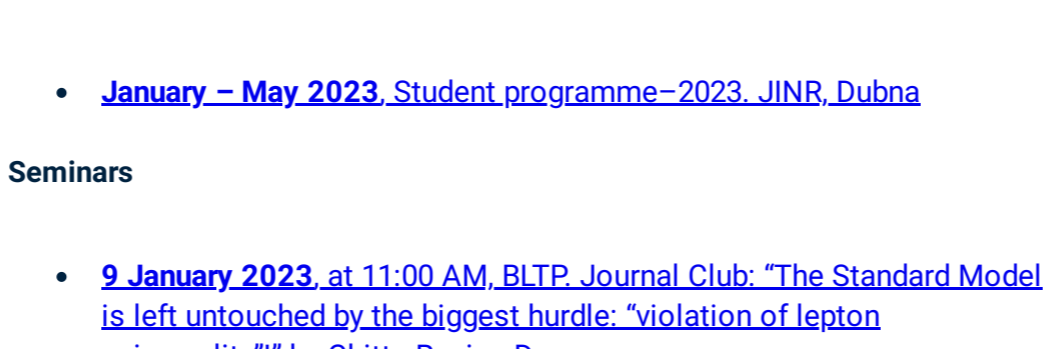


[READ MORE →](#)

Sports

Andrey Tamonov awarded for development of sports in Dubna

At the JINR Athletes' New Year's Ball, Head of the Social Infrastructure Management Office Andrey Tamonov was awarded for his great contribution to the development of sports in Dubna and high-level organization of mass city competitions, such as the run in the memory of V. I. Veksler, the Flerov Open Swimming Competitions, and others.



[READ MORE →](#)

Basketball Festival for the first time in Dubna

For the first time in Dubna, a Basketball Festival took place in honour of the basketball's birthday on 24 December, 2022. The event was held with active support from JINR.

[READ MORE →](#)

Results of Kettlebell Lifting Tournament

On 25 December, the Kettlebell Lifting Tournament dedicated to the memory of A. M. Weinstein finished. 22 athletes from different regions of Russia participated in the competition. The highlight of the tournament was the participation of a USSR Master of Sports in Kettlebell Lifting Vitaly Fomin.

[READ MORE →](#)

[MORE photos→](#)

Dubna Open Swimming Championship

On 29 and 30 December, the Dubna Open Swimming Championship dedicated to the memory of a USSR Master of Sports Nikolay Zuev will be held in the Archimedes Swimming Pool of JINR. The competitions will begin at 1:00 PM on both days.

[READ MORE →](#)

Media

Recording of New Year's concert

Watch the New Year's concert with a variety of musical performances by employees of the Institute and students of the Dubna Children's Music School. It took place on 27 December at the Cultural Centre "Mir". Enjoy a New Year's atmosphere and get in a festive mood!

[READ MORE →](#)

Filming at JINR

On 29 and 30 December, the Channel One Russia filmed an interview with Yuri Oganessian for a coverage dedicated to the jubilee of Igor Vasilievich Kurchatov. In January 2023, you will find out how the staff called Kurchatov and what emotions Igor Vasilievich experienced watching the launch of the first artificial satellite.

[READ MORE →](#)

Results of Large Hadron Collider operation 2022

The Elements journal published a review popular science article by Igor Ivanov about the results of the Large Hadron Collider (CERN) in 2022. The third run (LHC Run 3) started at the Large Hadron Collider. Despite the influence of external factors, the start of the Run 3 can be considered successful: the collider quickly reached the peak performance.

[READ MORE →](#)

Record of seminar on solid state physics

We kindly invite you to watch the record of the seminar "Solid state physics" by Pavel Maksimov (BLTP). He spoke about tasks and discoveries of solid state physics, as well as why JINR is engaged in it.

[READ MORE →](#)

JINR Weekly Newspaper issued

New issue of the JINR Weekly Newspaper #50-51 has been published. Please note that you can read an English version on the JINR Newspapers website.

[READ MORE →](#)

Upcoming Events

Conferences

- January – May 2023. Student programme-2023. JINR, Dubna

Seminars

- 9 January 2023, at 11:00 AM, BLTP, Journal Club: "The Standard Model is left untouched by the biggest hurdle: 'Violation of lepton universality'" by Chitta Ranjan Das
- 22 December – 22 January 2022, daily from 1:00 to 7:00 PM (except Monday), JINR Cultural Centre "Mir", Exhibition by JINR Artists' Club
- 29 December 2022, at 7:00 PM, JINR Universal Public Library, Meeting of the book club "Fairplay", discussing the book "Winter Solstice" by Rosamunde Pilcher
- 29 and 30 December 2023, at 1:00 PM, Archimedes Swimming Pool of JINR, Dubna Open Swimming Championship
- 4 January 2023, at 6:00 PM, JINR Cultural Centre "Mir", Performance "Snow waltz"
- 5 January 2023, at 5:00 PM, JINR Cultural Centre "Mir", Ballet "Nutcracker"
- 6 January 2023, from 12:00 PM till 8:00 PM, JINR Cultural Centre "Mir", Christmas fair
- 8 January 2023, at 4:00 PM, JINR Cultural Centre "Mir", Christmas concert by creative art studios of JINR Cultural Centre "Mir"

For Kids

- 2 January 2023, at 2:00 PM, JINR Cultural Centre "Mir", Fairytale on ice "New Year Night's Dream"

[ALL JINR EVENTS →](#)