



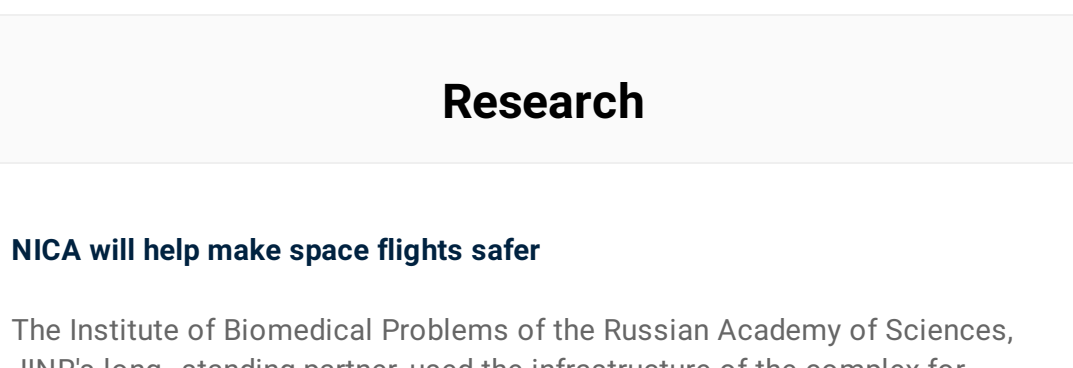
## JINR Newsletter #13, 6 April 2023

Dear colleagues and friends,

The NICA Megascience Project is at the top of the agenda this week. A major meeting covering the topics of the project took place in North Ossetia. Moreover, the last delivery of important equipment from China arrived at NICA. Read also about the NICA-based research of the radiation resistance of two new materials for the protection of Russian cosmonauts at the ISS.

Today, the second guided tour of the "Scientific tourism" initiative has taken place at JINR. Over 2 dozens of schoolchildren have visited Dubna to get acquainted with the research conducted at JINR. Participants of the press tour of the Office of the Decade of Science in Russia have also become participants of the tour. Read more information in the new issue of the JINR Newsletter.

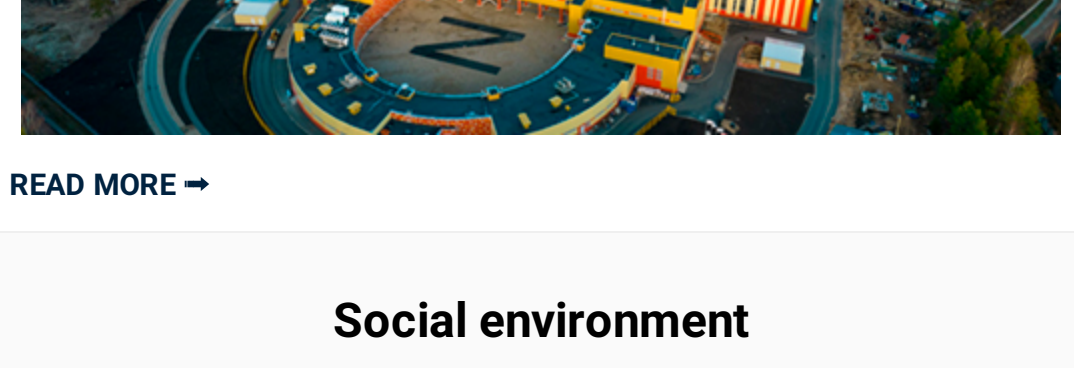
JINR Press Office



### Research

#### NICA will help make space flights safer

The Institute of Biomedical Problems of the Russian Academy of Sciences, JINR's long-standing partner, used the infrastructure of the complex for ARIADNA applied research. Staff members of IMBP RAS examined two new materials for radiation resistance to protect cabins of Russian cosmonauts at the International Space Station.



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### Social environment

#### Hemodialysis unit opened at Medical Unit No. 9 with participation of JINR

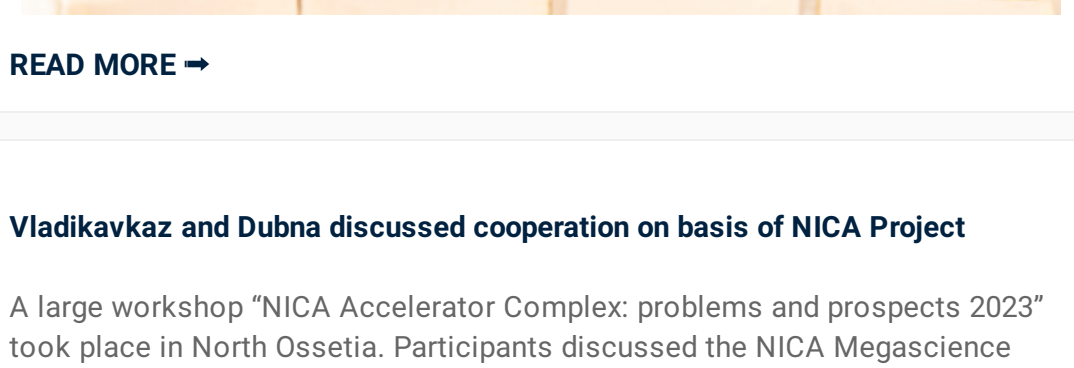
On 31 March, at the Medical Unit No. 9 of the Federal Medical and Biological Agency of Russia, a hemodialysis unit was opened for JINR employees and residents of the Dubna city. There will be three shifts in the hemodialysis unit. Equipped with 12 new-generation dialysis machines, the unit will provide the treatment of 72 people on an outpatient basis.

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### Cooperation

#### Equipment for NICA arrived from China

On 31 March, about 300 modules of the electromagnetic calorimeter for the MPD Detector at NICA were delivered to the Joint Institute for Nuclear Research from China. In total, 800 modules were produced in China.



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#### Vladikavkaz and Dubna discussed cooperation on basis of NICA Project

A large workshop "NICA Accelerator Complex: problems and prospects 2023" took place in North Ossetia. Participants discussed the NICA Megascience Project and the results of commissioning at the Accelerator Complex in 2020-2023. Participants of the event had the opportunity to learn about JINR and its research areas.

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### Education

#### Second landing of young scientific tourists in Dubna

On 6 April, an excursion was held in Dubna as part of the implementation of the Decade of Science and Technology initiative "Popular Science Tourism". 8th – 10th grade students from Moscow came to the science city to get acquainted with the Joint Institute, its research and learn more about nuclear physics.

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### JINR Community

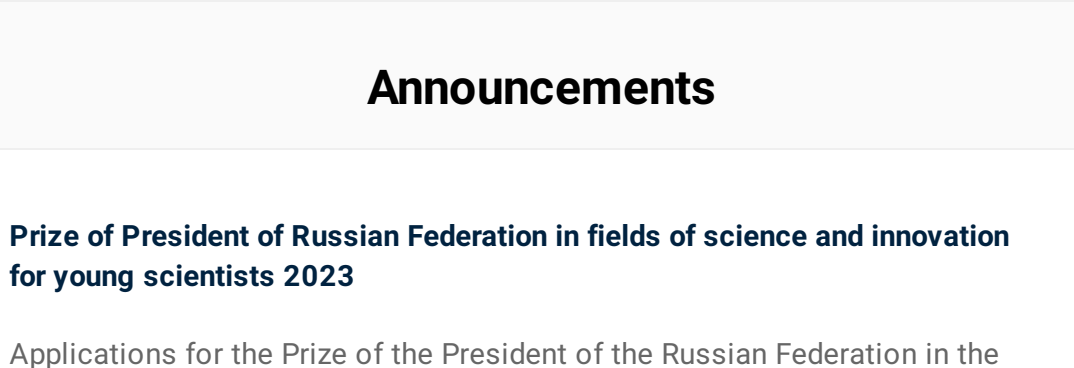
#### Report on work performed by Trade Union in 2022

We offer you to get acquainted with the report on the work of the Trade Union of JINR in 2022. The Trade Union of the Joint Institute for Nuclear Research is a public non-profit organization that monitors compliance with the existing labour laws.

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#### JINR Cinema Club

This Friday, on 7 April, at 6:00 PM, you can enjoy watching an interesting film "Breathless" (1960). All are kindly invited! Please note that the JINR Cinema Club will be held in the JINR Universal Public Library.



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### Announcements

#### Prize of President of Russian Federation in fields of science and innovation for young scientists 2023

Applications for the Prize of the President of the Russian Federation in the fields of science and innovation are accepted from 15 April to 15 October 2023. The Russian Science Foundation conducts the scientific examination of applications for the Prize.

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#### Registration for workshop "Superconducting and Magnetic Hybrid Structures" opened

The Bogoliubov Laboratory of Theoretical Physics JINR organizes the international workshop "Superconducting and Magnetic Hybrid Structures". It will take place in Dubna from 11 to 15 July. The registration is available until 10 May.

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### Media

#### Popular Science Tourism event

Dubna became the first stop on the route of the series of press tours to scientific organizations of Russia, which provide excursions for students and schoolchildren. Please watch the video and see photos to learn how it was.

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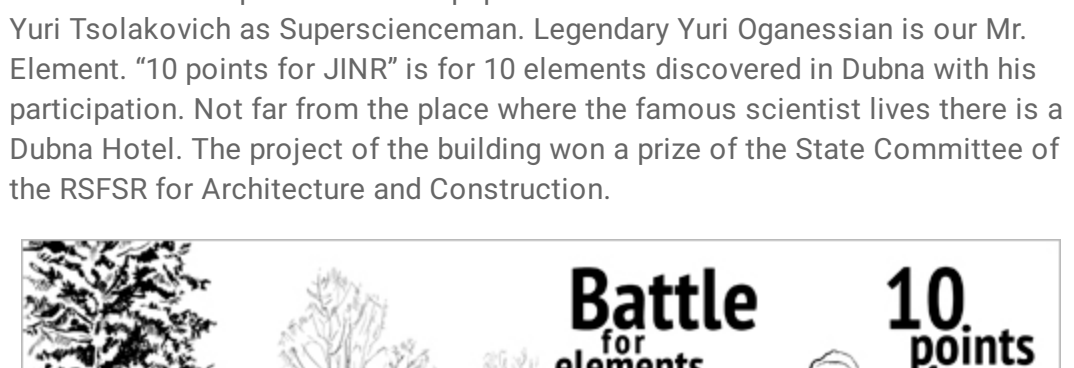
#### Izvestia filming JINR

On 31 March, a film crew of the Izvestia Information Centre spent a day at the Joint Institute. Journalists interviewed Academician Yuri Oganessian in FLNR. And in MLIT, the film crew covered the development of a mobile application for detecting diseases of house and agricultural plants.

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#### Filming coverage about first Synchrotron

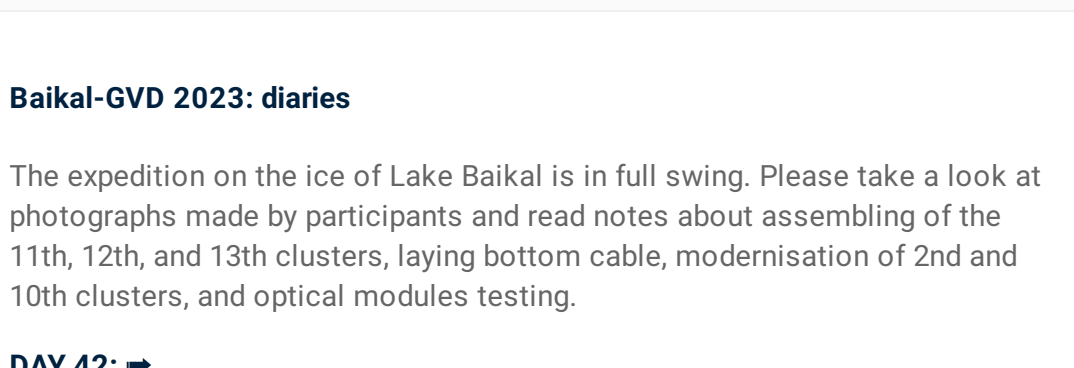
On 3 April, the OTR TV channel crew filmed a coverage at VBLHEP. It is dedicated to launching the first Synchrotron in the world. In the new episode of the "Calendar" programme, you will learn what was so special about the Synchrotron and which discoveries were made on it.



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#### New wallpapers for your smartphones

We would like to present the wallpapers with a Dubna Hotel and our favourite Yuri Tsolakovich as Superscienceman. Legendary Yuri Oganessian is our Mr. Element. "10 points for JINR" is for 10 elements discovered in Dubna with his participation. Not far from the place where the famous scientist lives there is a Dubna Hotel. The project of the building won a prize of the State Committee of the RSFSR for Architecture and Construction.



[DOWNLOAD →](#)

#### Baikal-GVD 2023: diaries

The expedition on the ice of Lake Baikal is read in full swing. Please take a look at photographs made by participants and read notes about assembling of the 11th, 12th, and 13th clusters, laying bottom cable, modernisation of 2nd and 10th clusters, and optical modules testing.

[DAY 42: →](#)

[DAY 43: →](#)

[DAY 44: →](#)

[DAY 45: →](#)

[DAY 46: →](#)

[DAY 47: →](#)

[DAY 48: →](#)

#### DLNP seminar recording

We kindly invite you to watch a recording of the DLNP seminar "Design and development of a test zone for methodical studies of detectors at the linear electron accelerator at DLNP" by Mikhail Gostkin.

[WATCH →](#)

### Recalling forefathers

#### Venedikt Dzhelepov

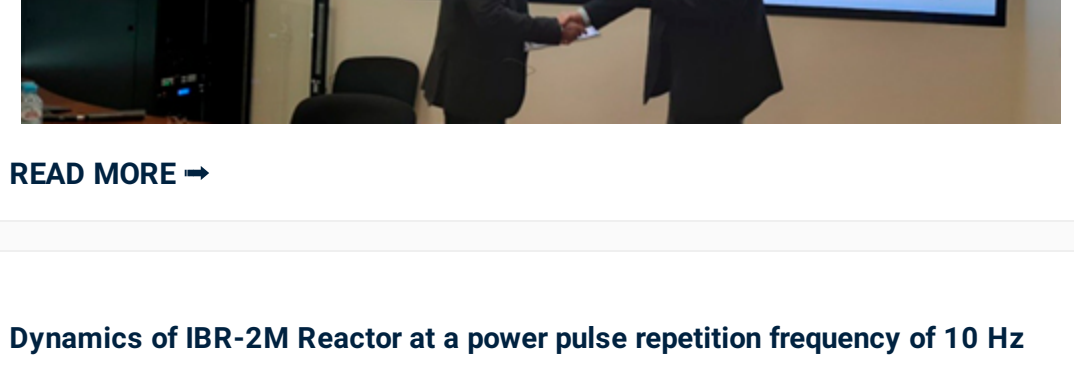
The Laboratory of Nuclear Problems continues to post publications about a brilliant physicist Venedikt Dzhelepov dedicated to his anniversary. A new article contains the memoirs of Irina Pokrovskaya, a secretary-referent, about Venedikt Dzhelepov's life.

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### Publications

#### FLNP published collection of articles on optics of long-wavelength neutrons

On 23 March, an FLNP chief researcher Alexander Frank was awarded the medal of the Laboratory of Neutron Physics JINR. Alexander Frank was awarded the medal of the Joint Institute for Nuclear Research for his services to science and JINR at the seminar.



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#### Dynamics of IBR-2M Reactor at a power pulse repetition frequency of 10 Hz

The JINR Publishing Department has released a preprint "Dynamics of the IBR-2M Reactor at a power pulse repetition frequency of 10 Hz" P13-2022-52. The authors are Yuri Pelyshev and Davasuren Siniokhuu.

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### Sports

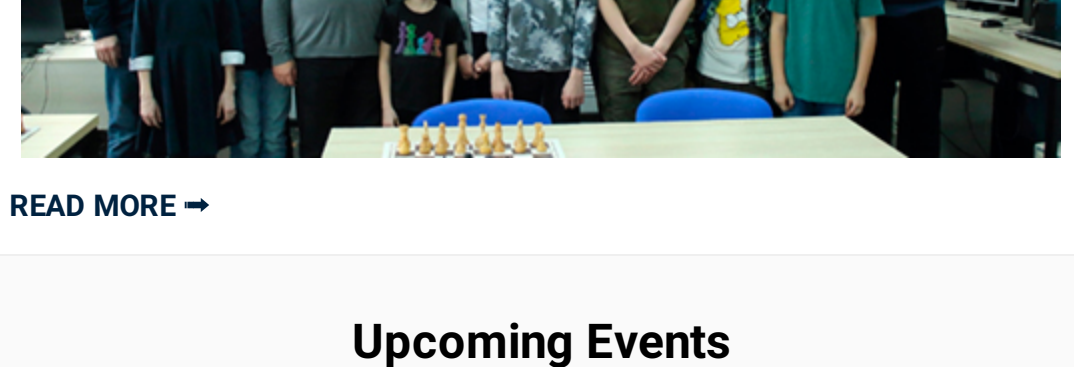
#### Tennis tournament

On 1 April, a tennis tournament in memory of Academician V. G. Solovoyov was held at the JINR Sports Club.

[LEARN the results →](#)

#### JINR open rapid chess championship

The JINR open rapid chess championship was held at the JINR Stadium "Nauka". 38 people took part in three categories. JINR Director Grigory Trubnikov, Head of the JINR Social Infrastructure Management Office Andrey Tamonov, and Director of the Sports Complex Vladimir Lomakin joined the opening of the championship.



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### Upcoming Events

#### Conferences

- **3 – 7 April. Scientific school for physics teachers from Kamchatka Krai.** JINR, Dubna

#### Seminars

- **6 April, at 11:00 AM, DLNP.** "Research and development of the polarised deuteron source for the Van de Graaf Accelerator" by Iliya Gapienko
- **6 April, at 11:00 AM, VBLHEP.** "Perspectives of accelerator driven subcritical reactors" by Mihaela Parajko
- **6 April, at 12:30 PM, BLTP.** "Discretized finster structure and Born reciprocity: an approach to unify general relativity and quantum mechanics" by Abdel Nasser Tawfik
- **7 April, at 11:30 AM, VBLHEP.** "Precision laser metrology for accelerators and detectors complexes" by Mikhail Lyablin
- **7 April, at 3:30 PM, FLNR.** "MAVR high-resolution magnetic analyzer. Results of the studies and prospects" by Sergei Lukyanov and Vladimir Maslov
- **11 April, at 11:00 AM, BLTP.** "Two-dimensional scattering of a slow quantum particle by a central potential" by Vasily Pupyshv
- **11 April, at 4:00 PM, BLTP.** "Representation of quantum mechanics of multiparticle systems in terms of the evolution of collective observables" by Pavel Andreev
- **12 April, at 2:30 PM, BLTP.** "Inflation in cosmology" by Anton Baushev

#### Culture

- **31 March – 10 May.** from Monday to Friday from 11:00 AM to 8:00 PM, and on Saturday from 12:00 PM to 6:00 PM, JINR Universal Public Library. Exhibition "Theatre's colour"
- **6 April, at 5:00 PM.** Museum of History of Science and Technology of JINR. Lecture series "Battle for elements". From magic numbers to "Island of Stability"
- **6 April, at 7:00 PM.** JINR Universal Public Library. Book club "Hairpin": discussing a book "Bolotnitsa" by Tatiana Mastryukova
- **7 April, at 6:00 PM.** JINR Universal Public Library. "Talkative" English speaking club
- **7 April, at 6:00 PM.** JINR Universal Public Library. JINR Cinema Club
- **8 April, at 2:00 PM.** JINR Universal Public Library. "Total Dictation"
- **8 April, at 4:00 PM.** JINR Cultural Centre "Mir". Reporting concert by children's dance troupe
- **8 April, at 6:00 PM.** JINR Universal Public Library. Lecture "Arctic: when ice will melt"
- **12 April, at 6:00 PM.** JINR Cultural Centre "Mir". Art exhibition "Legends of the North"

#### Sports

- **8 April, at 10:00 AM.** JINR Stadium "Nauka". Table tennis tournament in memory of Grigory Asryan

#### For Kids

- **8 April, at 5:00 PM.** JINR Universal Public Library. Meeting "Let's READers"

[ALL JINR EVENTS →](#)