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Directorate information



JOINT INSTITUTE FOR NUCLEAR RESEARCH

# JINR Newsletter #12, 30 March 2023

## Dear colleagues and friends,

A festive week is over at the Joint Institute. Our joint house on the Volga River turned 67! And how can one imagine a birthday without gifts? For the day of the Institute's foundation, the JINR Digital Ecosystem was launched, and a new building of the JINR University Centre was opened.

The JINR delegation worked at a meeting of the Joint Russian-South African Commission on Scientific and Technical Cooperation.

Read in the new issue of the JINR Newsletter about these events, as well as about the milestones of the last session of the JINR Committee of Plenipotentiaries, visits, upcoming events, and much more!

**JINR Press Office** 



# **Breaking News**

#### Please welcome JINR Digital Ecosystem

The JINR Digital Ecosystem has been put into test operation this week. It is a platform that provides access to the JINR information services network. MLIT JINR Scientific Leader Vladimir Korenkov spoke about the creation and future large-scale development of the system and how it is going to save employees' working time.



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# Visits

#### Head of Rosatom Alexey Likhachev visited JINR

Director General of the State Atomic Energy Corporation "Rosatom" Alexey Likhachev met with the JINR Directorate and made a tour of the scientific infrastructure of the Institute. At the meeting at the Flerov Laboratory of Nuclear Reactions, participants discussed the development of cooperation between JINR and Rosatom on a number of joint projects.



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#### JINR-RSA: strengthening cooperation together

On 27 - 31 March, the JINR delegation visited South Africa and met with representatives of the Ministry of Science and Technology of South Africa and the National Research Foundation. JINR representatives took part in the 17th session of the Joint Intergovernmental Committee on Trade and Economic Cooperation between the Russian Federation and South Africa and held a series of seminars at universities.

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# **Session of Committee of Plenipotentiaries**

#### Bright results and big plans: CP session took place at JINR

On 24 March, a session of the Committee of Plenipotentiaries of the Governments of the JINR Member States took place. Participants discussed the status of scientific projects and scientific results, a revised draft of the Seven-Year Plan, the success in the development of international cooperation of the Institute, and results of the JINR Finance Committee meeting held on 22 March.



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Meeting with Plenipotentiary Representative of Vietnam

On 22 March, Plenipotentiary Representative of Vietnam in JINR, Vice-President of the Vietnam Academy of Science and Technology Tran Tuan Anh met with JINR Director Grigory Trubnikov. The expansion of the participation of Vietnamese employees in JINR, staff training, and further plans for the development of cooperation were the key topics of the meeting.

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# **Celebrating JINR Foundation Day**

#### New UC building opened

On 25 March, a new building of the JINR University Centre opened bringing science even closer to schoolchildren and students. The Student Engineering Training Laboratory in the new building is provided with real equipment for automation, electronics, and RF technology. A special physics training was organized for schoolchildren introducing them to basic physical phenomena and measuring instruments.



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#### "Big science" exhibition

On 25 March, a festive opening of the exhibition "Big science" was held at the JINR Cultural Centre "Mir" in honour of the JINR Foundation Day. Works by a photo-artist Mark Kozhura tell you about big science, advanced technologies, discoveries, and experiments in which JINR staff takes part. The exhibition will run until 9 April.

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#### **Celebrations dedicated to JINR Foundation Day**

On 25 March, a festive evening in honour of the JINR Foundation Day took place at the JINR Cultural Centre "Mir". JINR employees were presented with Russian awards and JINR medals, Dubna teachers - winners of the JINR grant competiton - were honoured. The evening finished with a concert "Musica Universalis: Art and Science" performed by JINR employees, teams of the Cultural Centre, Dubna, and students of the Children's Music School.

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# **JINR Community**

#### JINR youth organization presented results of its work for a year

At the general meeting of the Association of Young Scientists and Specialists of JINR, Chairman of the AYSS Council, a junior researcher of the Laboratory of Nuclear Problems Vladislav Rozhkov reported on the work done. In addition, he spoke about AYSS plans, in particular about the organization of a new school on accelerator physics.

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#### **Female Face of Science**

In honour of the International Day of Women and Girls in Science, the Laboratory of Nuclear Problems prepared a series of publications about female researchers working at the Laboratory. The following articles are about Scientific Secretary Irina Titkova, Head of the Scientific and Experimental Department of New Accelerators Galina Karamysheva, and senior researchers Daniya Zinatulina and Margarita Alexandrova.

READ about Irina Titkova →

READ about Galina Karamysheva 🖛

READ about Daniya Zinatulina 🔿

READ about Margarita Alexandrova 🔿

#### **JINR Cinema Club**

This Friday, on 31 March, at 6:00 PM, you can enjoy watching a fascinating film "Frances Ha" (2012). All are kindly invited! Please note that the JINR Cinema Club will be held in the JINR Universal Public Library.



READ MORE -

## Check your literacy at Blokhinka

On 8 April, at 2:00 PM, the all-Russian event "Total Dictation" will take place at the JINR Universal Public Library. The host of the Dubna TV channel Pavel Kasterov will give the dictation (in Russian). Registration for the event is open. To register, you should go to the website, click on the tab "Площадки" ("Sites") and select the library.

REGISTER -

# **Education**

## JINR-MIPT School on Quark-Gluon Plasma Physics started

On 30 March, the joint JINR-MIPT School on Physics of Quark-Gluon Matter was launched becoming the first event held at the new building of the JINR

University Centre. During five days, participants will listen to lectures and visit JINR laboratories. The School is being held in Dubna for the first time and is designed to acquaint children with projects implemented at JINR.



#### Technical hackathon "Dubna-2023"

16 teams from the Moscow region took part in the competition in designing and programming robots. The Hackathon was organized for participants who had no experience with the Arduino platform. Participants visited the exhibition "JINR basic facilities" and took part in a seminar on the basics of Arduino robotics.

READ MORE -

### Media

#### **Russia-24 Channel filmed JINR**

On 28 March, the Russia-24 Channel filmed a special coverage about JINR research and its applied use in the Veksler and Baldin Laboratory of High Energy Physics and the Flerov Laboratory of Nuclear Reactions. The filming crew visited the NICA Complex, the Superheavy Element Factory, and the FLNR Nanocentre.



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#### At CP session

We kindly invite you to watch a video about the session of the Committee of Plenipotentiaries of the Governments of the JINR Member States, which took place on 24 March.

WATCH -

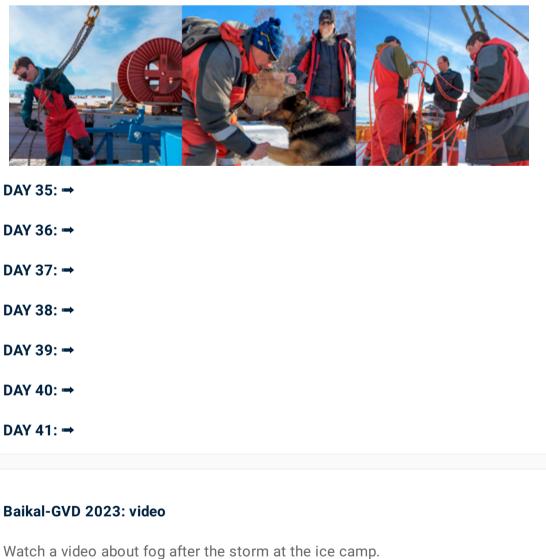
#### New podcast with JINR scientists

JINR scientists have identified a new species of unique bacteria from the hot springs in the Elbrus caves. They are able to tolerate high concentrations of heavy metals and grow using methanol as a carbon source. The participants of the expedition, DLNP staff members Mikhail Zarubin and Kirill Tarasov will speak more about this in the new episode of the Learned Cat podcast by Radio Sputnik.

LISTEN -

#### Baikal-GVD 2023: diaries

The expedition on the ice of Lake Baikal continues. Enjoy photographs made by participants and read more about assembling of the 11th and 12th clusters, laying the bottom cable, and optical modules testing.



WATCH -

#### **JINR Weekly Newspaper issued**

A new issue of the JINR Weekly Newspaper #12 has been published. Please note that you can read an English version on the JINR Newspaper's website. READ MORE -

# **Publications**

## **Physical general relativity**

The JINR Publishing Department has released a preprint "Physical general relativity" E2-2022-57. The author is Ivanhoe Pestov.

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# **Recalling founders**

#### Venedikt Dzhelepov

The Laboratory of Nuclear Problems continues to post publications about a great physicist Venedikt Dzhelepov dedicated to his anniversary. In the article, you will learn about research areas and the contribution to world science of Venedikt Dzhelepov.

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# **Sports**

### JINR Sports Games

Recently, competitions within the XXIV Sports Games dedicated to the 67th anniversary of JINR have been held at the JINR Stadium "Nauka" and the JINR Sports Club. The Sports Games finished with the volleyball and football finals, as well as the kettlebell lifting competition.



Darts competition ->

Swimming competition -

Volleyball and football competition →

Kettlebell lifting competition →

# **Upcoming Events**

### Conferences

- 30 March 4 April, Workshop "NICA Acceleration Complex: problems ٠ and prospects - 2023". Vladikavkaz, Russia
- 30 March 3 April, School on Physics of quark-gluon matter. JINR, Dubna
- 3 7 April, Scientific school for physics teachers from Kamchatka • Krai. JINR, Dubna

#### **Seminars**

- 31 March, at 11:00 AM. DLNP. Training of a series of DLNP seminars ٠ "Lifehacks of some use for a scientist"
- 31 March, at 2:30 PM. BLTP. "Friedmann universes: putting it simply. ٠ Lecture 2" by Anton Baushev
- 3 April, at 11:00 AM. BLTP. "Digital quantum simulation of fermionic ٠ models with a superconducting circuit" by Pavel Maksimov
- 4 April, at 4:00 PM. LRB. "Neurobiological effects of ionising radiation • with different physical characteristics" by Yuri Severyukhin
- 5 April, at 11:00 AM. VBLHEP. "BECQUEREL experiment: new exposures ٠ at NICA" by Andrey Zaitsev
- 5 April, at 11:00 AM. BLTP. "Large-charge expansion: from global to local symmetries" by Alexander Bednyakov
- <u>6 April, at 11:00 AM. DLNP. "Research and development of the polarised</u> deuteron source for the Van de Graaf Accelerator" by Iliya Gapienko
- 6 April, at 12:30 PM. BLTP. "Discretized finsler structure and Born • reciprocity: an approach to unify general relativity and quantum mechanics" by Abdel Nasser Tawfik

## Culture

- 30 March, at 7:00 PM. JINR Cultural Centre "Mir". Concert "Virtuoso" ٠
- 30 March, at 7:00 PM. JINR Universal Public Library. Book club "Summer Reading List": discussing short stories by O. Henry
- 31 March, at 6:00 PM. JINR Universal Public Library. "Talkative" English • speaking club
- 31 March, at 6:00 PM. JINR Universal Public Library. JINR Cinema Club ٠
- 1 April, at 6:00 PM. JINR Universal Public Library. "Guttenberg's Smoking Room" meeting
- 1 April, at 6:00 PM. JINR Cultural Centre "Mir". "Theatre director" opera
- 2 April, at 5:00 PM. JINR Cultural Centre "Mir". Concert "Stories from •
  - Paris"

## **Sports**

- <u>1 April, at 9:30 AM. JINR Sports Club. Tennis tournament in memory of</u> V. G. Solovyov
- <u>1 April</u>, at 10:00 AM. JINR Stadium "Nauka". Volleyball tournament
- 1 April, at 1:20 PM. JINR Stadium "Nauka". JINR open rapid chess • tournament

## For Kids

- 30 March, at 6:30 PM. JINR Universal Public Library. Detective Club for • teenagers
- 1 April, at 4:00 PM. JINR Universal Public Library. Meetings "Engineering" and "Let's READers"

#### ALL JINR EVENTS →

© Joint Institute for Nuclear Research Joliot-Curie str 6, Dubna, Moscow region, Russia, 141980 press@jinr.int

