



## JINR Newsletter #3, 7 April 2022

*Dear colleagues and friends!*

*The calendar is showing 7 April but winter romance is still present in Dubna: snowflakes, soft snowdrifts, and dazzling sun.*

*Northern landscapes became an inspiration for a Slovak artist Maria Bali as well. The wife of a Slovak physicist, who is an employee of the Laboratory of Information Technologies, presented her works in watercolour technique, which makes it possible to capture a moment of the changeable and fleeting beauty of a landscape. A report from the opening of the exhibition in the JINR Cultural Centre "Mir" is in today's newsletter.*

*On 1 April, the day of jokes and tricks, participants of the NICA project did not joke about reaching a significant milestone. On that day, the NICA record-breaking run was successfully concluded. It was the first run in which the entire accelerator system, except for the collider, operated. Read the details and comments of participants in our newsletter.*

*We congratulate the project team and the Laboratory of High Energy Physics!*

**JINR Press Office**



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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.

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## Breaking News

### NICA record-breaking run concluded

On 1 April, the longest commissioning run at the NICA accelerator complex concluded, which lasted 3 months. It was the first run in which the entire accelerator system, except for the collider, operated.



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#### **JINR Youth: AYSS New Chairman**

On 29 March 2022, Vladislav Rozhkov has been elected as the Chairman of the Council of the Association of Young Scientists and Specialists. The AYSS General Meeting has also approved the membership of the AYSS Council.



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## **Labs' News**

#### **DLNP Seminar on proton therapy**

Alexey Agapov (DLNP) spoke about the current situation in the JINR Medical-Technical Complex and the application of dynamic irradiation and flash therapy methods at the new MSC-230 proton medical accelerator. It is one of the basic facilities of the future centre for applied research.

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## **Conferences**

#### **Registration for “Alushta-2022” opened**

The Association of Young Scientists and Specialists of JINR is holding the annual scientific conference of young scientists and specialists “Alushta-XI” on 5 - 12 June 2022. The deadline for applications is set on 17 April 2022.

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## **Education**

#### **English Language Week in Physics and Mathematics Lyceum**

On 23 and 25 March, JINR staff members Semen Gurskiy and Elena Badawy

took part in the English Language Week in the Physics and Mathematics Lyceum named after Academician V. G. Kadyshevsky.



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### **JINR and Kamchatka University: educational and scientific cooperation**

In 2022, JINR and Kamchatka State University named after Vitus Bering have started active joint work through the JINR Information Centre established and opened at the University in October 2021.

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## **Teletype**

- On 31 March, an extended meeting of the JINR Directorate was held. Heads of the Institute's laboratories presented the key results of activities in 2021
- On 1 April, a delegation of representatives of the Russian Academy of Sciences visited JINR to get acquainted with the JINR scientific infrastructure and discuss the prospects for the cooperation development

## **Publications**

### **"Particles and Nuclei, Letters", #2 2022**

The second issue of the journal "Particles and Nuclei, Letters" has been published.

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### **JINR Publishing Department published preprint**

We offer to your attention a preprint "Extrapolation of the Energy of the Lowest States in the Superheavy Even-Even Nuclei" P6-2021-53 published by the JINR Publishing Department. The authors are A. D. Efimov, I. N. Izosimov.

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## **Arts**

### **Landscapes of Russian north seen by Slovak artist**

On 1 April, an exhibition of works by a Slovak artist Maria Bali “Symbiosis” opened in the JINR Cultural Centre “Mir”. It exhibits Russian north watercolour landscapes: views of the White Sea coast, landscapes of Murmansk, Arkhangelsk regions, and Karelia.



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## Media

### **Video by JINR:**

The 16th International Conference “Parallel Computational Technologies” (PCT’2022) took place in the the Meshcheryakov Laboratory of Information Technologies JINR.

**[Watch it on Youtube➞](#)**

### **LRB JINR welcomes 360° TV Channel**

Researchers of the Laboratory of Radiation Biology Anton Ryumin and Mikhail Kapralov told a 360° journalist Dmitry Stepanishchev about the study of the meteorite that fell on Earth in 1894 in France near the village of Orgueil. LRB scientists together with their foreign colleagues have managed to discover unique findings, which among other things suggest that life on Earth was brought from space.

**[Watch it on Rutube➞](#)**

### **Podcast “Does the periodic table have an end?”**

We invite you to listen to the Sputnik Radio podcast with Alexander Karpov “Does the periodic table have an end?”

**[Listen on Sputnik Radio➞](#)**

**[You can also listen to the podcast on Yandex.Music➞](#)**

### **JINR Weekly Newspaper issued**

New issue of the JINR Weekly Newspaper #13 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**

- [7 April 2022](#), at 3:30 PM. "Formation and decay of nuclear systems  $Z=114, 120$  in interaction of heavy ions with nuclei" by K. V. Novikov (FLNR)
- [8 April 2022](#), at 11:30 AM. "Study of processes of hadron generation, nuclei and hypernuclei formation during collisions of heavy ions in the PHARMD model and possibility of their study at the NICA accelerator complex" by Victor Kireev (VBLHEP)
- [11 April 2022](#), at 11:00 AM. BLTP Journal Club "The QCD equation of state in background magnetic fields" (arXiv: 1406.0269) at Blokhintsev Conference hall (4th floor, BLTP)
- [12 April 2022](#), at 11:00 AM. "Individual dipole toroidal states in  $^{58}\text{Ni}$ " by P. I. Vishnevskiy (BLTP)
- [12 April 2022](#), at 5:00 PM. Historical and scientific seminar "Synchrotron turns 65" in JINR Museum
- [13 April 2022](#), at 3:00 PM. "Newton's method for computing high-precision periodic orbits of the planar three-body problem" by I. Hristov
- [14 April 2022](#), at 3:00 PM. Seminar dedicated to the anniversaries of the birth of V. I. Bodnarchuk and M. V. Avdeev
- [15 April 2022](#), at 9:30 AM. Seminar to 65th anniversary of Synchrotron's launch

#### Dissertation Councils

- [8 April 2022](#), at 3:00 PM. Defense of Doctoral thesis "Spatial network proximity technologies: concept, models and algorithms, distributed systems, and services" by Dmitry E. Namiot (MLIT)
- [11 April 2022](#), at 3:00 PM. Defense of Candidate's thesis "Spin projection operators in quantum field theory and Brauer algebra representations" by Mikhail A. Podoinitsyn (BLTP)

#### Culture

- [7 April 2022](#), at 7:00 PM. Meeting of the book club "Shpilka": discussing the book "The Signature of All Things" by Elizabeth Gilbert (Blokhinka)
- [8 April 2022](#), at 7:00 PM. Concert of classical music by the orchestra "Moscow virtuosos" (Scientists' Club).
- [9 April 2022](#), at 2:00 PM. Total Dictation (Blokhinka)
- [10 April 2022](#), at 7:00 PM. Musical show "Notre Dame de Paris"/"Romeo and Juliet" (CC "Mir")

#### Sports

- [9 April 2022](#), at 10:00 AM. Table tennis tournament in memory of G. A. Asriyan (JINR Stadium "Nauka")

#### For Kids

- [9 April 2022](#), at 5:00 PM. Family book gatherings "Pochitayka" (only by appointment, Blokhinka)

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