



JINR Newsletter #6, 28 April 2022

Dear colleagues and friends!

The sun is warming, the grass is turning green: in a word, captivating spring and screaming Dubna seagulls outside office windows are trying to distract us from fascinating work. But we are faithful to our duty, especially since we have May holidays ahead of us. The International Labour Day is a great reason to muse on work as a comfortable environment. The sociological survey conducted jointly with the University "Dubna" has shown how the Institute's staff feels about work.

Moreover, the Baikal expedition 2022 finished last week. As telegraphed from the Baikal, the Baikal-GVD international project has acquired two new clusters of optical modules (now they total almost 3,000!).

Colleagues from the fast developing VBLHEP site are informing about an exciting discussion on the key results in MPD@NICA, another international experiment.

Our joint home on the Volga river is open not only for scientists from all over the world but for scientific diplomats, and in this Newsletter, we are going to tell you about the expert discussion that took place at JINR.

We are looking forward to the upcoming week. One of its bright events is that the JINR international family will celebrate another holiday. 3 May marks a national holiday of Poland, one of the founding states of our international centre. Find more details in our Newsletter.

JINR Press Office

P.S. Please note that the next JINR Newsletter will be issued on 12 May.



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. Latest update: 28 April 2022.

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Breaking News

Baikal 2022: Done!

The Baikal expedition 2022 has been completed. The Baikal-GVD neutrino

telescope has two new clusters now. Specialists repaired and modernised the earlier installed elements of the detector.



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Visits

Driving Science Diplomacy

On 21 April, Russian experts in scientific diplomacy gathered in the Institute to discuss trends in this field and possible role of JINR in this process as an international intergovernmental organisation. JINR guests also got acquainted with the NICA megascience project and an exhibition dedicated to the Institute's basic facilities.



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JINR and South Ural State University: cooperation in machine learning

On 18 April, at the meeting of the delegation of the South Ural State University and JINR leaders, the parties discussed the cooperation in machine learning application in interdisciplinary studies, as well as the creation of applied parallel applications and software programs.

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Tula: Making the next step forward

On 21 - 23 April, a JINR delegation had a working visit to Tula. A series of meetings and scientific lectures was organised. The visit has been organised to develop further cooperation established in October last year.

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Conferences

International Workshop being held in Almaty

This week, Kazakhstan is hosting the International Workshop on Nuclear and Particle Physics. It was organised by JINR and the Institute of Nuclear Physics of Ministry of Energy of the Republic of Kazakhstan to strengthen scientific ties between scientists from JINR and research and educational organisations in Kazakhstan.



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CMR@IBR-2: JINR research reactor news

On 25 - 29 April, participants of the Conference “Condensed Matter Research at the IBR-2” discussed the IBR-2 pulsed reactor, plans for its modernisation, as well as the range of research at its instruments.

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At 9th MPD Collaboration Meeting

Based on information presented by participants of the meeting, almost 90 % of necessary superconducting magnets have been produced. All the components of the 1st stage of the MPD experiment are under active development that is why we expect to commission the MPD first stage in 2023.

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Research

Hoping for tardigrade

Using a special protein in tardigrades that protects these unique creatures from radiation, DLNP JINR scientists are looking for a way to transfer this resistance to the fruit fly and human cell culture.



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Review journal Particles & Nuclei, #2 2022

The 2nd issue of the review journal Physics of Elementary Particles and Atomic Nuclei (Particles & Nuclei) for 2022 has been published. Readers are offered 90 publications on relevant areas of JINR research.

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Education

Online excursions for MSU students

On 4 and 19 April 2022, second-year students of the Faculty of Physics at the Moscow State University participated in virtual visits to the JINR laboratories. Visitors saw the DC-280 cyclotron hall in FLNR and the NICA accelerator complex of VBLHEP.



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Dark matter for “Sirius” students

Anton Baushev, a leading BLTP researcher, told 8-10-grade students of the Educational Centre “Sirius” about the history of dark matter study and some experimental results obtained in the search for it.

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People of JINR

JINR as employer: vision through the eyes of employees

About 65 % of JINR employees have chosen “rather” and “fully satisfied” answers to the questions about job satisfaction at the Institute in the sociological survey conducted jointly with the University “Dubna”. You can find a detailed report of the survey on the JINR website.

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Rapid Chess at JINR

On 24 April, the winners of the JINR open rapid chess tournament were announced at the JINR Stadium “Nauka”. The JINR open tournament has been held for the first time after a long break.

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Swimming Masters

On 22 - 24 April, the XXX Russian Masters Swimming Championship was held in St. Petersburg. Swimmers of the JINR club “105 element” (headed by Irina Migulina, VBLHEP) succeeded.



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Media

One more science comics

Water in unique Lake Baikal is so clean and transparent because it is purified by inconspicuous organisms, including sponges *Lubomirskia baicalensis*. A new comics created by DLNP JINR and the Komikaze artel will answer the questions what happened to them and what is the role of JINR in it.



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JINR Weekly Newspaper issued

New issue of the JINR Weekly Newspaper #16 has been published. Please note that you can read an English version on the JINR Newspaper's website.

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Upcoming Events

Conferences

- [28 April 2022, at 9:50 AM. Room 310 MLIT. Workshop “Computational biology and physics”](#)

Seminars

- [29 April 2022, at 11:00 AM. “Cluster structure of light nuclei with \$Z \leq 5\$ and its effect on nucleon transfer mechanism” by Sergey Lukyanov](#)
- [29 April 2022, at 11:30 AM. “Investigation of the structure of exotic states in hadron and proton-nuclear collisions” by M. Yu. Barabanov](#)

Culture

- [29 April 2022, at 7:00 PM. JINR Scientists’ Club. The performance “Kreutzer Sonata. Two geniuses”, which will be presented by the literary theatre “Word’s Academy”](#)
- [4 May 2022, at 7:00 PM. JINR Universal Public Library. Meeting of the book club “Hairpin”: discussing the book “The Guernsey Literary and Potato Peel Pie Society” by Mary Ann Shaffer and Annie Barrows](#)
- [5 May 2022, at 7:00 PM. JINR Cultural Centre “Mir”. Concert “Swan Faithfulness”](#)

For Kids

- [30 April 2022, at 5:00 PM and 6:00 PM. Family book gatherings “Let’s READers” and “Little owls”](#)
- [29 April 2022, at 6:00 PM. Blokhinka. Board game meeting](#)

ALL JINR EVENTS ➡

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