



JINR Newsletter #7, 22 February 2023

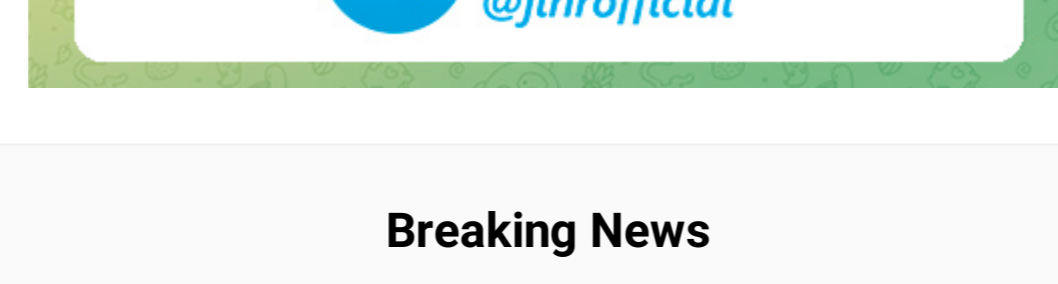
Dear colleagues and friends,

The observation of astrophysical neutrinos confirmed by the Baikal-GVD Collaboration was the bright news of this week. The expedition of the Baikal-GVD Project is gathering pace, and we will tell you about the first week on the ice of Lake Baikal.

Besides, in today's issue of the JINR Newsletter, you will learn about results of the past session of the JINR Scientific Council, new awards and publications. In the new issue, you will also find photos and videos from the concert at the Synchrotron and several bright events at Blokhinka for the end of the week.

Have a great weekend!

JINR Press Office



Breaking News

Baikal-GVD confirmed observation of astrophysical neutrinos

Based on the data obtained at the Baikal-GVD Neutrino Telescope, project participants managed to confirm the presence of a neutrino flux of the astrophysical nature, which had been earlier discovered at the IceCube Antarctic Neutrino Telescope.



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At Scientific Council of JINR

JINR Scientific Council with new members and plans

On 16 – 17 February, the 133rd regular session of the JINR Scientific Council with the new membership took place. Members considered and discussed the final version of the new Seven-Year Plan for the JINR Development. The Joint Institute signed the agreement with the National Council for Science and Technology of Mexico (CONACYT).



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Cooperation

JINR at Cairo International Exhibition of Innovation

On 11 - 15 February, the JINR delegation participated in the 7th Cairo International Exhibition of Innovation. 15 sessions, seminars, contests, and panel discussions took place alongside the exhibition. Members of the JINR delegation spoke about international activities and innovative projects of the Institute.



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Awards

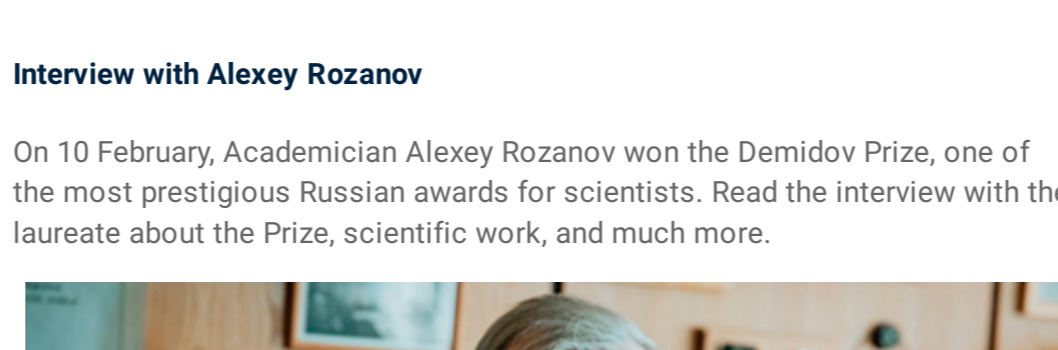
JINR Prizes for 2022

At the 133rd session of the JINR Scientific Council, which was held in a mixed format on 16 – 17 February, the JINR annual prizes for the best papers in the fields of scientific research, methodology, research and technology, and applied research were awarded.

[LEARN the results →](#)

Interview with Alexey Rozanov

On 10 February, Academician Alexey Rozanov won the Demidov Prize, one of the most prestigious Russian awards for scientists. Read the interview with the laureate about the Prize, scientific work, and much more.



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JINR Community

Female Face of Science

In honour of the International Day of Women and Girls in Science, the Laboratory of Nuclear Problems JINR prepared a series of publications about female researchers working at the Laboratory. The following four articles are about DLNP researchers Maria Fomina and Anastasia Bolshakova, as well as DLNP junior researchers Olga Petrova and Viktoriya Dik.

[READ about Maria Fomina →](#)

[READ about Anastasia Bolshakova →](#)

[READ about Olga Petrova →](#)

[READ about Viktoriya Dik →](#)

Concert to celebrate completion of fourth commissioning run at NICA

On 17 February, in the Synchrotron building of VBLHEP JINR, a concert by the IP Symphony Orchestra was held. It was dedicated to the completion of the fourth commissioning run, the longest in the history of the NICA Accelerator Complex. Institute's employees and participants of the 133rd session of the JINR Scientific Council enjoyed world hits of pop and rock music.



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Media

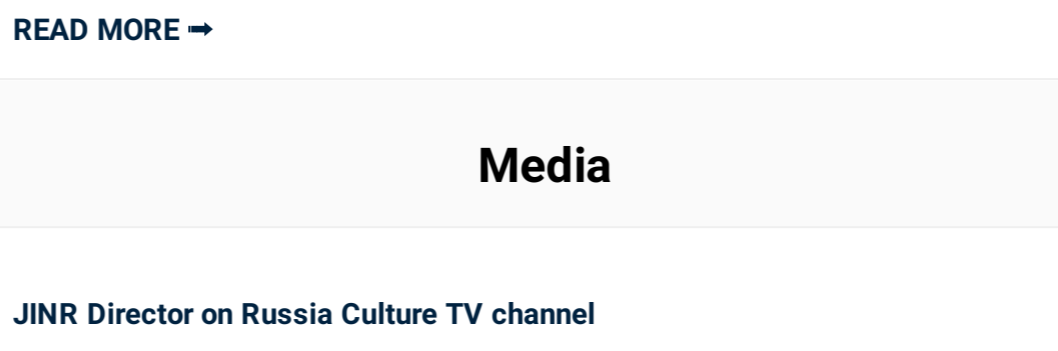
JINR Director on Russia Culture TV channel

JINR Director Grigory Trubnikov took part in the Agora programme of the Russia Culture TV channel. What are the prospects for nuclear physics? Has the era of great discoveries come to an end? What is the future of science? Guests of the programme, famous scientists, discussed this and much more together with the host Mikhail Shvydkoy.

[WATCH →](#)

Baikal-GVD 2023: the diaries

On 17 February, a regular publication on the construction of the Baikal-GVD Neutrino Telescope started. Watch the photos made by participants and observe the expedition's progress.



[DAY 1: start →](#)

[DAY 2: setting up the camp →](#)

[DAY 3: making the ice holes →](#)

[DAY 4: divers at work →](#)

[DAY 5: group work →](#)

Mexico and JINR signed intergovernmental agreement

We offer you a video about signing the Joint Declaration of Intent between the National Council for Science and Technology of Mexico (CONACYT) and the Joint Institute for Nuclear Research. It took place on 16 February at the 133rd session of the JINR Scientific Council.

[WATCH →](#)

2022 of Joint Institute in 22 minutes

Watch a video about milestones of 2022 at the Joint Institute for Nuclear Research.

[WATCH →](#)

Seminar recordings

We kindly invite you to watch recordings of seminars "From measuring the distribution of particle fluxes in the ATLAS cavern towards computer tomography" by Georgy Chelkov and "The ubiquity of power laws: from particle production to human behaviour" by Trambak Bhattacharyya.

[WATCH seminar by Georgy Chelkov →](#)

[WATCH seminar by Trambak Bhattacharyya →](#)

Publications

Peculiarities of rotation bands in heavy and superheavy nuclei

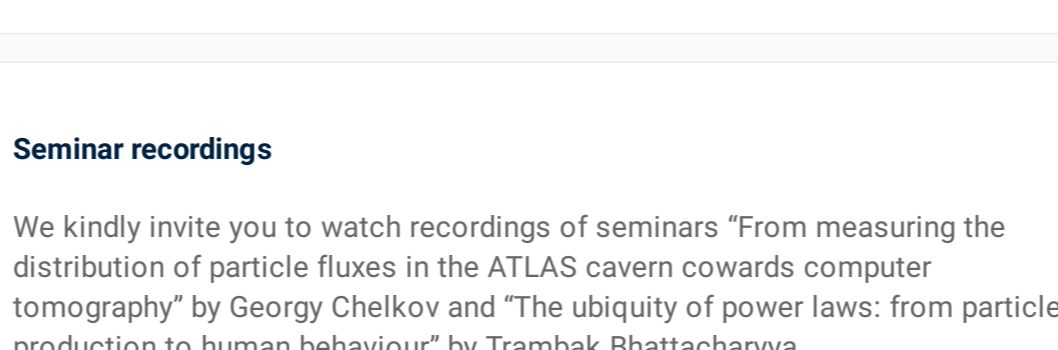
The JINR Publishing Department has released a preprint "Peculiarities of Rotation Bands in Heavy and Superheavy Nuclei. Description of Yrast-Band States in ^{248}Cm " P4-2022-50. The authors are A. D. Efimov and I. N. Izosimov.

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Recalling founders

The cousins Dzhelapov

The Laboratory of Nuclear Problems continues to post publications about a brilliant physicist Venedikt Dzhelapov, dedicated to his anniversary. The article is about the families of the Dzhelapov cousins, Venedikt Petrovich and Boris Sergeevich, and their mutual passion for sports and physics.



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Announcements

Exhibition in museum

An exhibition "Rare books about science and scientists" has been opened in the Museum of History of Science and Technology of JINR. The exhibition presents, among other things, rare popular publications from the D. I. Blokhintsev's archive. The exhibition will be open until the end of February.

Sports

Mini football tournament

On 16 February, at the JINR Sports Club, a mini football tournament began as part of the XXIV Sports Games dedicated to the 67th anniversary of JINR. The VBLHEP team drew with the team of the military unit with a score of 7:7.

[LEARN the schedule of mini football tournament →](#)

Victory of JINR

JINR athletes won the first place in the Dubna City Championship in cross-country skiing among physical culture teams.

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Upcoming Events

Conferences

- [20 – 22 February, JINR-Armenian workshop "Supersymmetry in Integrable Systems \(SIS'23\)", Bogoliubov Laboratory of Theoretical Physics, JINR](#)
- [22 February, JINR Staff Conference, International Conference Centre, Dubna](#)
- [27 – 28 February, Meeting of the Working group under the Committee of Plenipotentiaries Chairman on financial issues of JINR, Armenia, Yerevan](#)
- [27 February – 3 March, Workshop "Infinite and Finite Nuclear Matter \(INFNUM-2023\)", Bogoliubov Laboratory of Theoretical Physics, JINR](#)

Seminars

- [22 February, at 11:00 AM, DLNP, "Status of the MEG-II experiment on search for the \$\mu^+ \rightarrow e^+ \nu\$ decay at the Paul Scherrer Institute \(PSI\), Switzerland" by N. V. Khomutov](#)
- [1 March, at 11:00 AM, DLNP, "Measurement of polarized ions by MEOP \(Metastability Exchange Optical Pumping technique\) in the EBIS\) for future EIC \(Electron Ion Collider\) at BNL" by A. N. Zelenski](#)
- [2 March, at 4:00 PM, BLTP, "Study of bound states of particles in effective models of quantum field theory" by Fedor Martynenko](#)

Culture

- [21 February – 14 March, daily from 1:00 to 7:00 PM \(except Monday\), JINR Cultural Centre "Mir", "Dacha season" art exhibition](#)
- [25 February, at 12:00 PM and 5:00 PM, JINR Cultural Centre "Mir", Concert of festival "First steps in arts"](#)
- [25 February, at 4:00 PM, JINR Universal Public Library, Lecture "First aid mistakes"](#)
- [25 February, at 7:00 PM, JINR Universal Public Library, Ethnic concert at Blokhinka](#)
- [26 February, at 6:00 PM, JINR Cultural Centre "Mir", Concert by Zara](#)
- [1 March, at 7:00 PM, JINR Cultural Centre "Mir", Concert of series "Steinway invites"](#)

Sports

- [16 February – 26 March, JINR Sports Complex, XXIV JINR Sports Games](#)
- [23 February, JINR Sports Club, Open kettlebell lifting tournament](#)

For Kids

- [25 February, at 4:00 PM, JINR Universal Public Library, "Engineering" meeting](#)

[ALL JINR EVENTS →](#)