



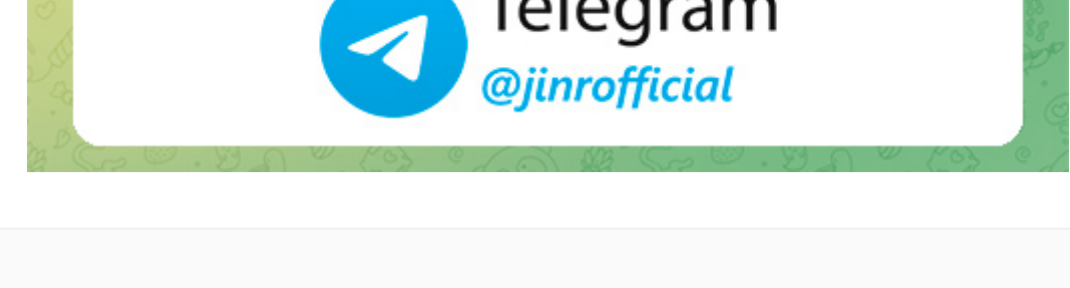
### JINR Newsletter #4, 2 February 2023

Dear colleagues and friends,

Last week, the meeting of the Programme Advisory Committee for Nuclear Physics concluded the PAC JINR series. Among other things, participants discussed the successes of the Superheavy Element Factory. In 2020-2022, JINR scientists synthesised five new isotopes at it.

A report by FLNR JINR Scientific Leader Yuri Oganessian at the RAS Presidium meeting, new publications, interesting coverages, and even new wallpapers for your smartphones. Find all that and even more in the new issue of the JINR Newsletter!

JINR Press Office



### Advisory Bodies

#### Nuclear physics in new Seven-Year Plan

On 26 January, the regular 56th meeting of the Programme Advisory Committee for Nuclear Physics of JINR took place. Participants of the event discussed plans of the Institute in the field of nuclear research covered in the new JINR Seven-Year Plan 2024 – 2030.



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#### Best poster presentations of young scientists at PAC meetings

Young scientists of the Joint Institute traditionally presented their research at the meetings of the JINR Programme Advisory Committees in January. The reports by an FLNP researcher Meir Verdauletov and a VBLHEP fellow researcher Ksenia Alilshina won the poster sessions.

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### Research

#### Five new isotopes synthesised at Superheavy Element Factory

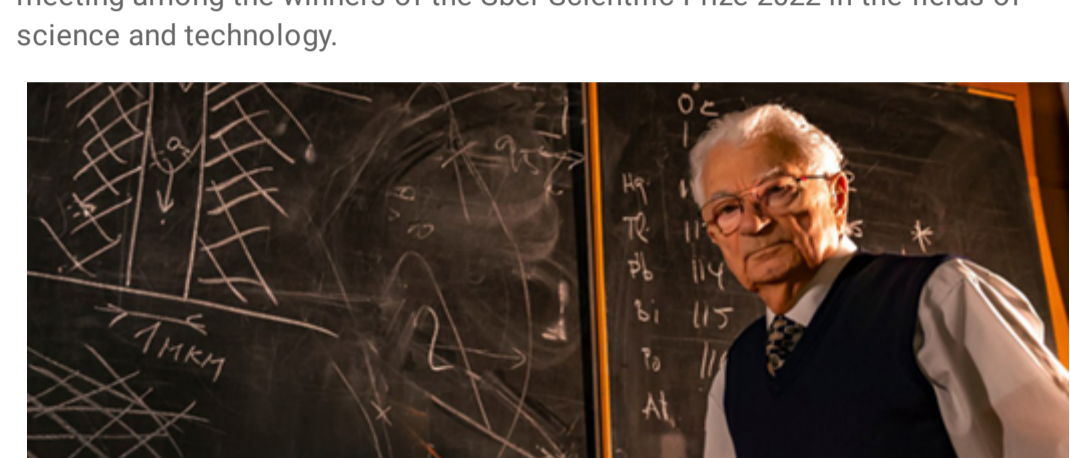
Isotopes <sup>264</sup>Lr, <sup>286</sup>Mc, <sup>276</sup>Ds, <sup>272</sup>Hs and <sup>268</sup>Sg were produced for the first time in the world in 2020 – 2022. The FLNR Superheavy Element Factory continues to hold the world-leading position in the field of synthesis and study of the properties of superheavy elements.



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#### Island of stability and sea of instability. Yuri Oganessian made report at RAS

On 31 January, Scientific Leader of the Flerov Laboratory of Nuclear Reactions JINR RAS Academician Yuri Oganessian delivered a report on nuclear reactions elements at the meeting of the RAS Presidium. Yuri Oganessian spoke at a meeting among the winners of the Sber Scientific Prize 2022 in the fields of science and technology.



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#### Method of separable approximation for Skyrme force and effects of complex configurations in structure of exotic nuclei

A series of scientific papers "Method of separable approximation for Skyrme force and effects of complex configurations in the structure of exotic nuclei" received the JINR Encouraging Prize for 2021. The works of the series were written by an international group of scientists, including three authors from the Bogoliubov Laboratory of Theoretical Physics JINR.

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### JINR Community

#### New AYSS seminar

The Association of Young Scientists and Specialists of JINR invites you to a new seminar at the JINR Scientists' Club! On 2 February, a BLTP JINR senior researcher Trambak Bhattacharyya will make a report "The ubiquity of power laws: from tritium production to human behaviour". He will speak about aspects of the nonextensive power-law distributions.

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#### English speaking clubs in Blokhinka

If you wanted to practise English, then you have a chance to do it! Blokhinka invites children and adults to meetings of the speaking clubs. On 10 February, at 6:00 PM, a meeting of the Talkative speaking club for adults will be held. All are kindly invited!

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#### JINR Cinema Club

This Saturday, on 4 February, at 6:00 PM, you can enjoy an interesting film "The Lion in Winter" (1944). All are kindly invited! Please note that the JINR Cinema Club will be held in the JINR Universal Public Library.



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### Publications

#### New issue of "Particles and Nuclei, Letters"

The sixth issue of the journal "Particles and Nuclei, Letters" has been published with results of the original theoretical, experimental, scientific-technical, methodical, and applied research.

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#### Fine structure of prompt neutron multiplicity distribution in spontaneous fission of superheavy nucleus <sup>256</sup>Rf

The JINR Publishing Department has released a preprint "Fine structure of prompt neutron multiplicity distribution in spontaneous fission of superheavy nucleus <sup>256</sup>Rf" E7-2022-49. The authors described an experimental study of <sup>256</sup>Rf spontaneous fission in fusion reaction of <sup>50</sup>Ti + <sup>208</sup>Pb.

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### Announcements

#### Breakfast at Baryon Restaurant

The Baryon Restaurant of JINR invites everyone for breakfasts from 7:30 to 10:00 AM. You can spend only 250 rubles on 2 dishes and a drink or have a breakfast buffet for 450 rubles. Learn about the history of the restaurant's name from the [video](#).



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#### Governor's Awards 2023

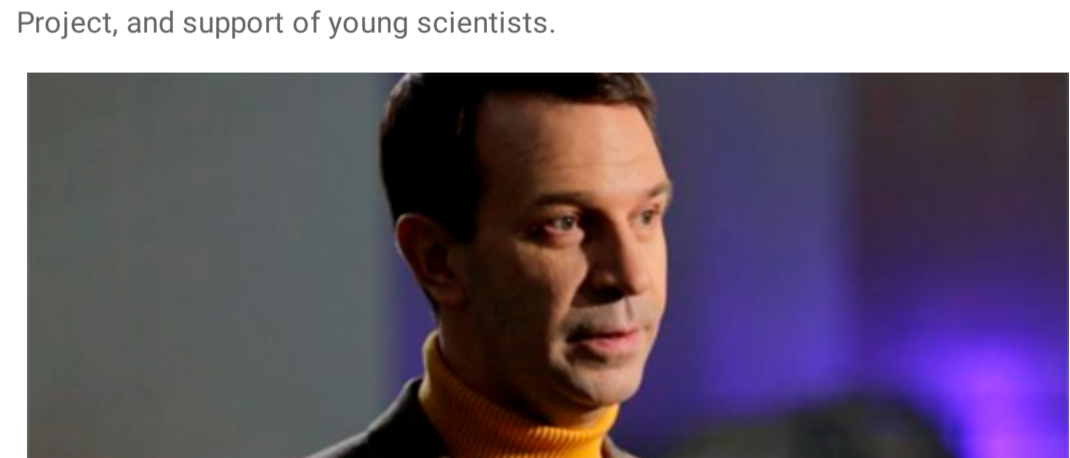
The competition was announced for Governor's Awards 2023 in the fields of science, technologies, engineering, and innovations for young scientists and specialists. Please, contact AYSS ayss@jinr.ru until 10.02.23 if you would like to participate.

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### Media

#### Interview with JINR Director

JINR Director Grigory Trubnikov in his interview with Kirill Pozdnyakov for the NTV Channel spoke about international cooperation of the Institute, the NICA Project, and support of young scientists.

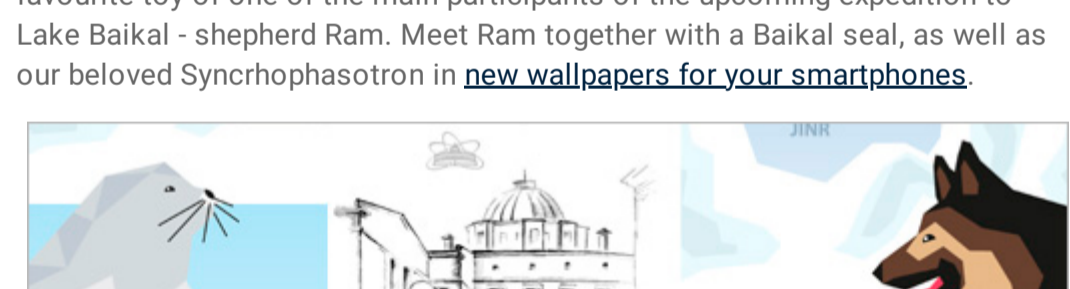


READ MORE about filming →

WATCH the interview →

#### New wallpapers for your smartphones

Optical modules are the main part of the Baikal-GVD Neutrino Telescope under construction. Polyurethane rings are ideal stands for modules, as well as the favourite toy of one of the main participants of the upcoming expedition to Lake Baikal - shepherd Ram. Meet Ram together with a Baikal seal, as well as our beloved Synchrotron in [new wallpapers for your smartphones](#)



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#### NTV Channel filming coverage about Baikal-GVD

On 27 January, at DLNP JINR, the team of which assembles and tests optical modules of the deep underwater telescope, the NTV Channel filmed a special coverage about this international megascience project for the Today news programme.

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#### BM@N Experiment collecting statistics

Watch a video about the progress on the BM@N Experiment presented at the 57th meeting of the Programme Advisory Committee for Particle Physics.

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#### About JINR PAC for Nuclear Physics

In the video, you will learn about the 56th meeting of the Programme Advisory Committee for Nuclear Physics of JINR. JINR scientists presented results, plans, and main fields of activities in their reports.

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#### JINR Weekly Newspaper issued

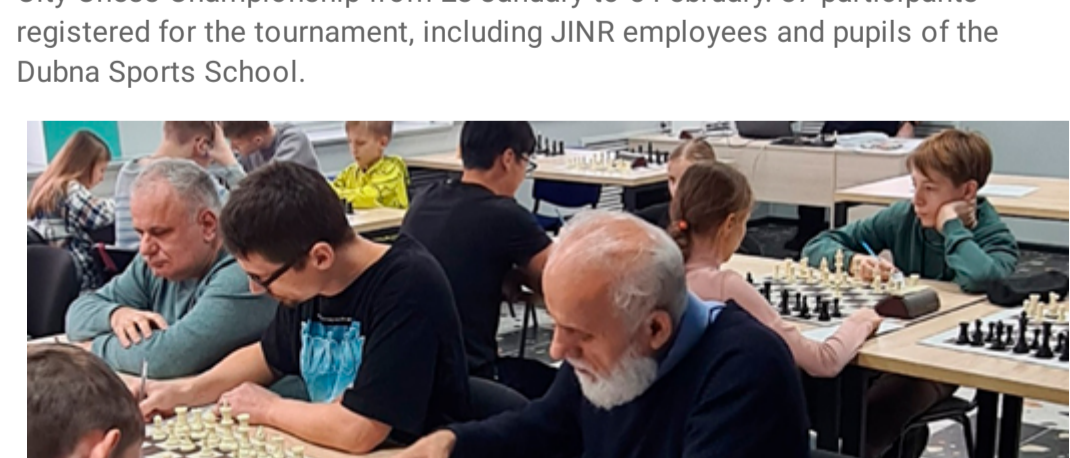
A new issue of the JINR Weekly Newspaper #4 has been published. Please note that you can read an English version on the JINR Newspaper's website. In this issue, you can read about results of the 57th regular meeting of the Programme Advisory Committee for Particle Physics of JINR and 56th meeting of the Programme Advisory Committee for Nuclear Physics of JINR.

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### Sports

#### Chess Tournament

The renovated chess room of the JINR Stadium "Nauka" is hosting the Dubna City Chess Championship from 28 January to 5 February. 37 participants registered for the tournament, including JINR employees and pupils of the Dubna Sports School.



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### Upcoming Events

#### Conferences

- **6 – 17 February 2023. School for students and young scientists on physics at NICA collider complex at JINR, Yerevan, Armenia**

#### Seminars

- **2 February 2023, at 11:00 AM, VBLHEP-RLTP "Measuring complex for assessing the grip strength of the forelimbs of rodents" by Irina N. Eremkina**
- **2 February 2023, at 11:00 AM, BLTP Seminar in memory of Professor Valery V. Burov**
- **2 February 2023, at 3:30 PM, FLNR "Research programme at the Superheavy Element Factory, first half of 2023" by V. K. Ulyonkov, S. L. Bogomolov, A. V. Sabelnikov (A. Yu. Bodrov)**
- **2 February 2023, at 4:00 PM, JINR Scientists' Club, AYSS seminar series: "The ubiquity of power laws: from particle production to human behaviour" by Trambak Bhattacharyya**
- **2 February 2023, at 11:30 AM, VBLHEP-RLTP "Chiral phase structure and deconfinement at finite magnetic fields at NICA" by Abdel Nasser Jawfik (Future University in Egypt)**
- **6 February 2023, at 11:00 AM, BLTP Journal Club "Beyond skyrmions: Review and perspectives of alternative magnetic quasiparticles (to be continued)" by Kaushal Kumar Kesbarou**
- **7 February 2023, at 11:00 AM, DLNP Defence of the dissertation "Application of spectroscopic methods and low-temperature germanium bolometers for direct search for dark matter particles and rare processes" by Evgeny A. Yakushev**
- **7 February 2023, at 11:00 AM, BLTP "Free-body dynamics in the Faddeev's three-body equations context with and without partial-wave expansion usage" by Mikhail Egrov (TSU)**

#### Culture

- **26 January – 19 February 2023, daily from 1:00 to 7:00 PM (except Monday), JINR Cultural Centre "Mir", Exhibition "The art of sketching"**
- **2 February 2023, at 7:00 PM, JINR Universal Public Library, Book club "Summer Reading List", discussing a science fiction novel "Deathworld" by Harry Harrison**
- **2 February 2023, at 6:30 PM, JINR Universal Public Library, Dubna intellectual games' club**
- **2 February 2023, at 7:00 PM, JINR Scientists' Club, Lecture "K. A. Korovin"**
- **4 February 2023, at 6:00 PM, JINR Universal Public Library, JINR Cinema Club**
- **5 February 2023, at 5:00 PM, JINR Cultural Centre "Mir", "The art of sketching" demonstration tour**

#### For Kids

- **4 February 2023, at 3:30 PM, JINR Universal Public Library, Meetings "Engineering", "Trick yourself", and "Let's READers"**

ALL JINR EVENTS →