

## JINR Newsletter #3, 26 January 2023

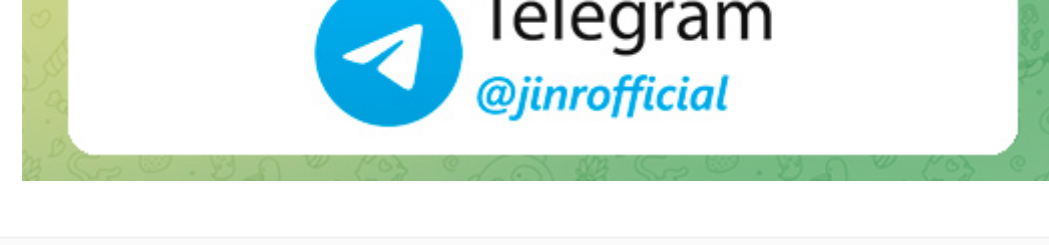
Dear colleagues and friends,

This week, the meetings of the Programme Advisory Committees are finishing their work. The Institute starts preparations for the February Scientific Council.

Yesterday, as part of the school project "One hundred questions to leaders", students of the Physics and Mathematics Lyceum named after Academician V. G. resumed its work at JINR.

Research, collaboration, social activities - read about all this and watch videos in this issue of the JINR Newsletter.

JINR Press Office



### Advisory Bodies

#### PAC meeting for Particle Physics: NICA implementation and participation in international projects

On 23 January, the 57th regular meeting of the Programme Advisory Committee for Particle Physics of JINR was held. Participants of the event discussed the status of the implementation of the NICA Megascience Project and the participation of the Institute's scientific groups in experiments at CERN. The technical design of the SPD detector was presented for the first time.



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#### Winter meeting of PAC for Nuclear Physics

On 26 January, a regular 56th meeting of the Programme Advisory Committee for Nuclear Physics of JINR has been held at the JINR International Conference Centre. There was a discussion on the main directions of JINR development in the field of nuclear physics for 2024-2030. The PAC members met with the JINR Directorate.

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### Conferences

#### XXX International Conference "Mathematics, Computing, Education" started online

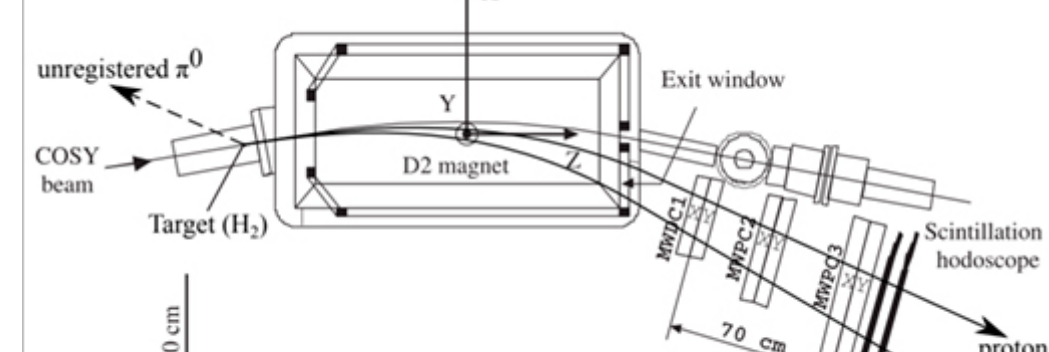
On 23 January, the 30th international conference "Mathematics, Computing, Education" began online at the Pushchino Scientific Centre for Biological Research. Traditionally, the event has brought together specialists not only in mathematics and biology, but also chemistry, biomedicine, sociology, economics and philology. The conference will last until 27 January.

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### Research

#### DLNP scientists advanced in study of dibaryon resonances

The result obtained by scientists indicates the excitation of a new, isovector D(2650) resonant state that may be a dibaryon resonance system consisting of two excited baryons  $\Delta(1232)$  and  $N^*(1440)$ . The work was carried out while analysing experimental data obtained at the ANKE facility of the COSY accelerator in Jülich (Germany). It was published in the Physical Review C journal.

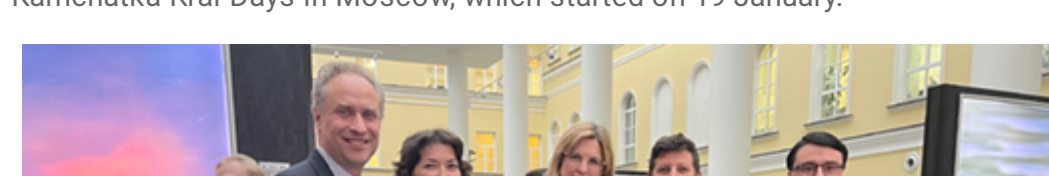


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### Cooperation

#### New formats of JINR and Kamchatka collaborative work

JINR and KamSU plan to hold Kamchatka Krai Days in Dubna, as well as a Physics Summer School at KamSU, an internship for physics teachers at JINR, and events for the Day of Russian Science on 8 February. Such formats of joint work were discussed as part of the JINR delegation's participation in the Kamchatka Krai Days in Moscow, which started on 19 January.

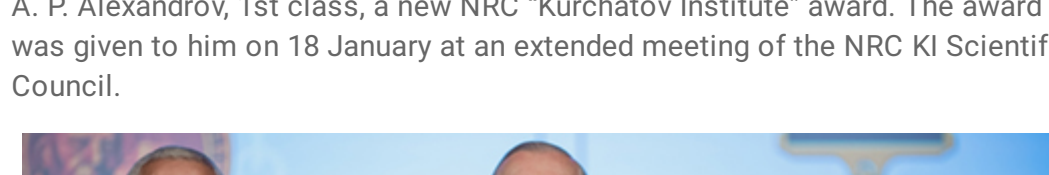


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### Awards

#### Victor Matveev won new medal of Kurchatov Institute

For his contribution to the development of nuclear science and technology, JINR Scientific Leader Victor Matveev was presented with a medal named after A. P. Alexandrov, 1st class, a new NRC "Kurchatov Institute" award. The award was given to him on 18 January at an extended meeting of the NRC KI Scientific Council.

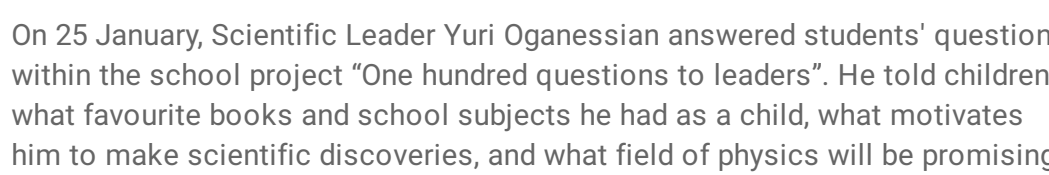


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### Education

#### Meeting of Lyceum students with Academician Oganessian, "If you chose your way, pursue the goal"

On 25 January, Scientific Leader Yuri Oganessian answered students' questions within the school project "One hundred questions to leaders". He told children what favourite books and school subjects he had as a child, what motivates him to make scientific discoveries, and what field of physics will be promising in the near future.



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### JINR Community

#### JINR Council of Heads of national groups resumed its work

On 18 January, the Council of Heads of national groups of the JINR Member States continued to work in the International Conference Centre after a break. The new Head of the national group of Kazakhstan Yerzhan Mukhamedzhanov was elected Chairman of the Council. Participants discussed organizational issues.

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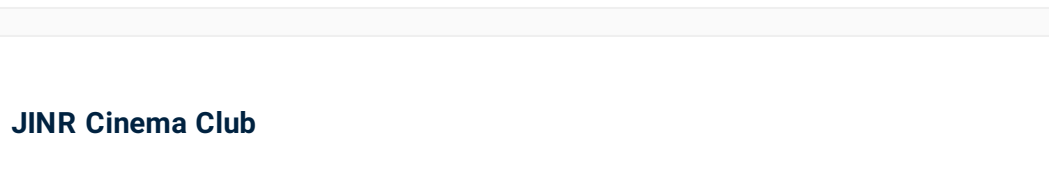
#### New AYSS seminar

The Association of Young Scientists and Specialists of JINR invites you to a new seminar at the JINR Scientists' Club! On 26 January, a DLNP junior researcher Mikhail Zarubin will deliver a report "Protection against radiation using tardigrade proteins". He will speak about research in this area and experiments with Dsup (Damage suppressor) DNA protection protein of tardigrades.

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#### JINR Cinema Club

This Friday, on 27 January, at 6:00 PM, you can enjoy an interesting film "Opfergang" (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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#### Konversationsklub Deutsch by AYSS JINR continues its work

Meetings take place every Monday and alternate with classes of the A1 German course for beginners. Participants play games and make presentations, complete grammar and vocabulary assignments, and even sing songs. Everyone is kindly invited to learn the language and improve their speaking skills!

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[SEE PHOTOS from last meeting →](#)

### Media

#### Filming at JINR

On 20 January, VBLHEP scientists told journalists about the tasks of the current run and the BM@N experiment at NICA for a special coverage by Russia-24 Channel and Rosatom Corporation. Our colleagues from INP SB RAS, who create the electron cooling system at NICA, joined the filming. The special coverage will be broadcast in February. Stay tuned to [our Telegram channel](#) and the JINR Newsletter not to miss it!



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#### At 56th Meeting of Programme Advisory Committee for Condensed Matter Physics of JINR

Watch a video about the 56th Meeting of the Programme Advisory Committee for Condensed Matter Physics of JINR. Participants discussed the status of the IBR-2 Reactor and its operation within the new Seven-Year Plan for the Development of JINR.

[WATCH →](#)

#### Yuri Oganessian taking part in project "One hundred questions to leaders"

Watch a video to learn how Scientific Leader Academician Yuri Oganessian visited the Physics and Mathematics Lyceum named after Academician V. G. Kadyshchikov. He answered students' questions as part of the school project "One hundred questions to leaders".

[WATCH →](#)

#### AYSS seminar recordings

If you did not manage to attend the last AYSS seminars, then you can watch the recordings of the following seminars: Inga Zinicovscaia, "Neutrons in ecology" of 06.10.2022, Igor Lensky, "IP: invitation to work together" of 15.12.2022, and Vladimir Melezikh, "About the Academician V. L. Ginzburg's list of the most important problems of physics" of 22.12.2022.

[WATCH →](#)

#### JINR Weekly Newspaper issued

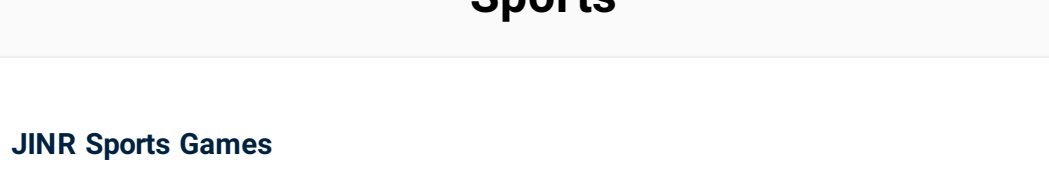
New issue of the JINR Weekly Newspaper #3 has been published. Please note that you can read an English version of the JINR Newspaper's website.

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### Sports

#### JINR Sports Games

In a month, the XXIV Sports Games dedicated to the 67th anniversary of JINR will start in the following disciplines: volleyball, basketball, football, darts, chess, table tennis, archery, rifle shooting, and weightlifting. On 30 January, at 7:15 PM, at the JINR Stadium "Nauka", a discussion with judges will take place, where you can learn more about the competitions.



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### Upcoming Events

#### Advisory Bodies

- [26 January 2023, 56th Meeting of the Programme Advisory Committee for Nuclear Physics, JINR International Conference Centre, Dubna](#)

#### Conferences

- [23 – 27 January 2023, XXX International Conference "Mathematics, Computing, Education", Online](#)

#### Seminars

- [26 January 2023, at 4:00 PM, BLTP, "Baryon asymmetry and gravitational waves generation before the electroweak phase transition" by Maxim Dvornikov](#)
- [26 January 2023, at 4:00 PM, JINR Scientists' Club, AYSS seminar series: "Protection against radiation using tardigrade proteins" by Mikhail Zarubin](#)
- [27 January 2023, at 3:00 PM, MLIT, "Modeling of physical processes in dense and hot nuclear medium" by Yuri Kalinovsky](#)
- [30 January 2023, at 11:00 AM, BLTP, Journal Club: "An infinite family of elliptical ladder integrals" by Maxim Bezuglov](#)
- [30 January 2023, at 2:00 PM, BLTP, "Methods for determining distances in astronomy and problem of measuring Hubble's law" by Petr Tretyakov](#)
- [30 January 2023, at 2:30 PM, BLTP, "OCD bound states at finite temperatures from a Dyson-Schwinger-Bethe-Salpeter approach" by L. P. Kartali](#)
- [31 January 2023, at 3:00 PM, BLTP, "Total reflection and canalized states in a 3D quantum model of thin films" by E. A. Soloviev](#)
- [31 January 2023, at 4:00 PM, BLTP, "The Landau paradigm and non-conventional orders in low-dimensional quantum systems" by Gennady Chitov](#)
- [2 February 2023, at 11:00 AM, BLTP, Seminar in memory of Professor Valery V. Burov](#)

#### Culture

- [26 January 2023, at 7:00 PM, JINR Universal Public Library, Meeting of the local club "Haitim", discussing a detective novel "Crooked House" by Agatha Christie](#)
- [26 January – 19 February 2023, daily from 1:00 to 7:00 PM \(except Monday\), JINR Cultural Centre "Mir", Exhibition "The art of sketching"](#)
- [27 January 2023, at 6:00 PM, JINR Universal Public Library, JINR Cinema Club](#)
- [27 January 2023, at 6:30 PM, JINR Universal Public Library, "Fiction from the third desk" club meeting](#)
- [27 January 2023, at 7:00 PM, JINR Universal Public Library, Musical and poetic solo performance "A candle was burning..."](#)
- [28 January 2023, at 2:00 PM, JINR Universal Public Library, Seminar "Problems and aspects of international scientific cooperation in modern realities"](#)
- [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](#)

#### For Kids

- [28 January 2023, at 4:00 PM, JINR Universal Public Library, Meetings "Engineering", "Let's READers", "Children's reading", and "Growing up from "Let's READers"](#)

[ALL JINR EVENTS →](#)