



JINR Newsletter #4, 1 February 2024

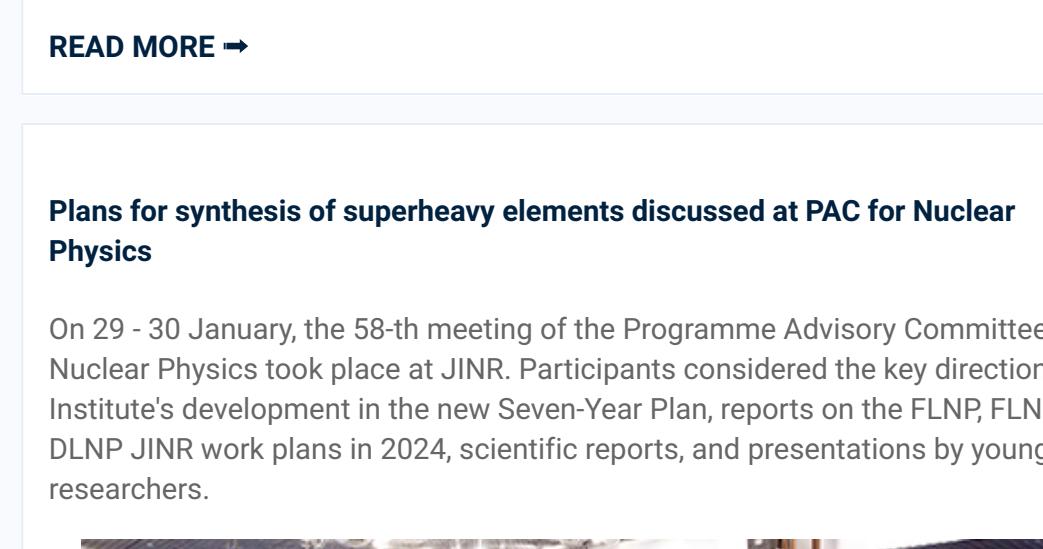
Dear colleagues and friends,

The winter sessions of the Programme Advisory Committees have concluded at the Joint Institute. You can review the results of the work of PAC for Condensed Matter Physics and Nuclear Physics in this issue of the JINR Newsletter.

Alongside PAC CMP, an agreement was signed on the establishment of the JINR Information Centre based at iThemba LABS, the national accelerator centre of the Republic of South Africa.

We also offer you to learn the news of the institute's scientific cooperation and JINR's participation in the life of Dubna, choose interesting seminars or other events.

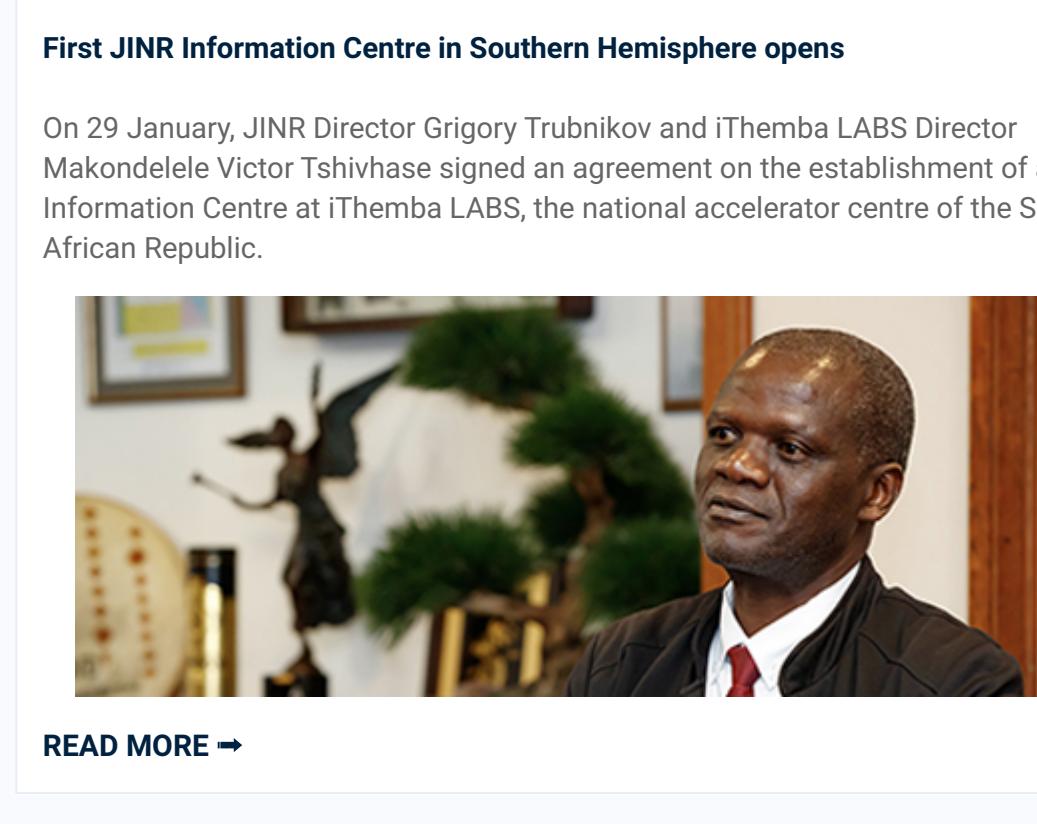
JINR Press Office



Advisory Bodies

PAC CMP: plans for nuclear reactors and discussion of project assessment criteria

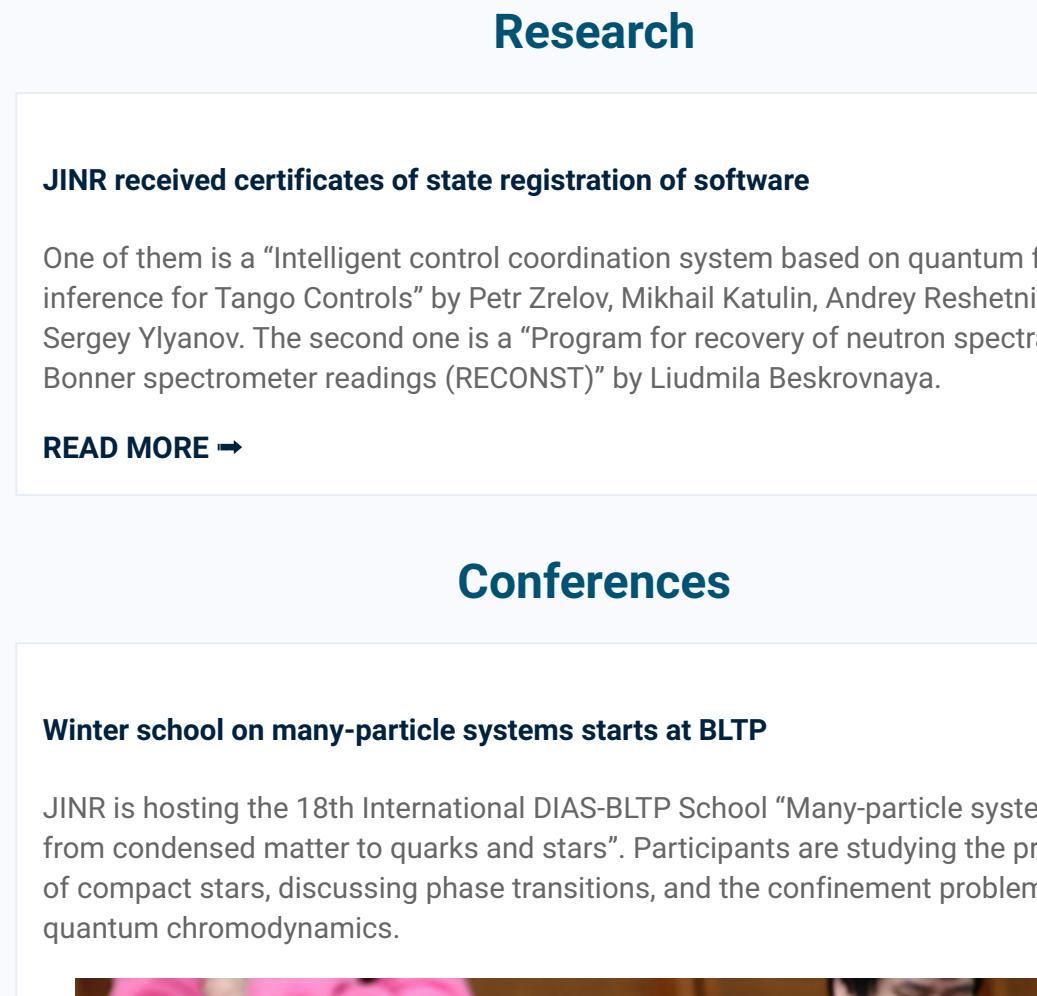
On 25 January, JINR hosted the 58-th meeting of the Programme Advisory Committee for Condensed Matter Physics. The Committee members considered the Institute's project assessment template, status reports and plans for the recommissioning of the IBR-2 Reactor, scientific reports, and reports by young JINR scientists.



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Plans for synthesis of superheavy elements discussed at PAC for Nuclear Physics

On 29 - 30 January, the 58-th meeting of the Programme Advisory Committee for Nuclear Physics took place at JINR. Participants considered the key directions of the Institute's development in the new Seven-Year Plan, reports on the FLNP, FNR, and DLNP JINR work plans in 2024, scientific reports, and presentations by young researchers.



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Cooperation

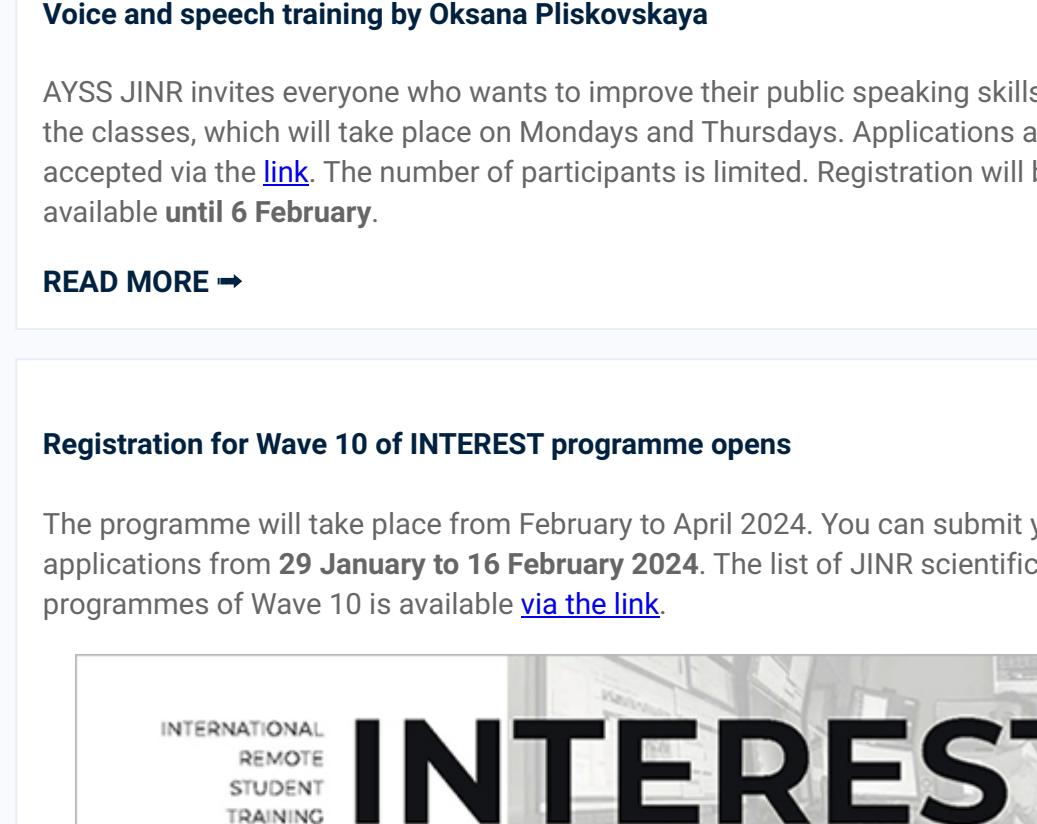
Representatives of universities of Azerbaijan visited JINR

On 23 - 24 January, JINR hosted a visit of representatives of universities of the Republic of Azerbaijan. The delegation headed by Hamlet Isayev, Chairman of Khazar University (Baku), visited the laboratories of the Joint Institute and met with the JINR Directorate. The delegation members also gave a lecture at DLNP at JINR.

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First JINR Information Centre in Southern Hemisphere opens

On 29 January, JINR Director Grigory Trubnikov and iThemba LABS Director Makondolele Victor Tshvihase signed an agreement on the establishment of a JINR Information Centre at iThemba LABS, the national accelerator centre of the South African Republic.

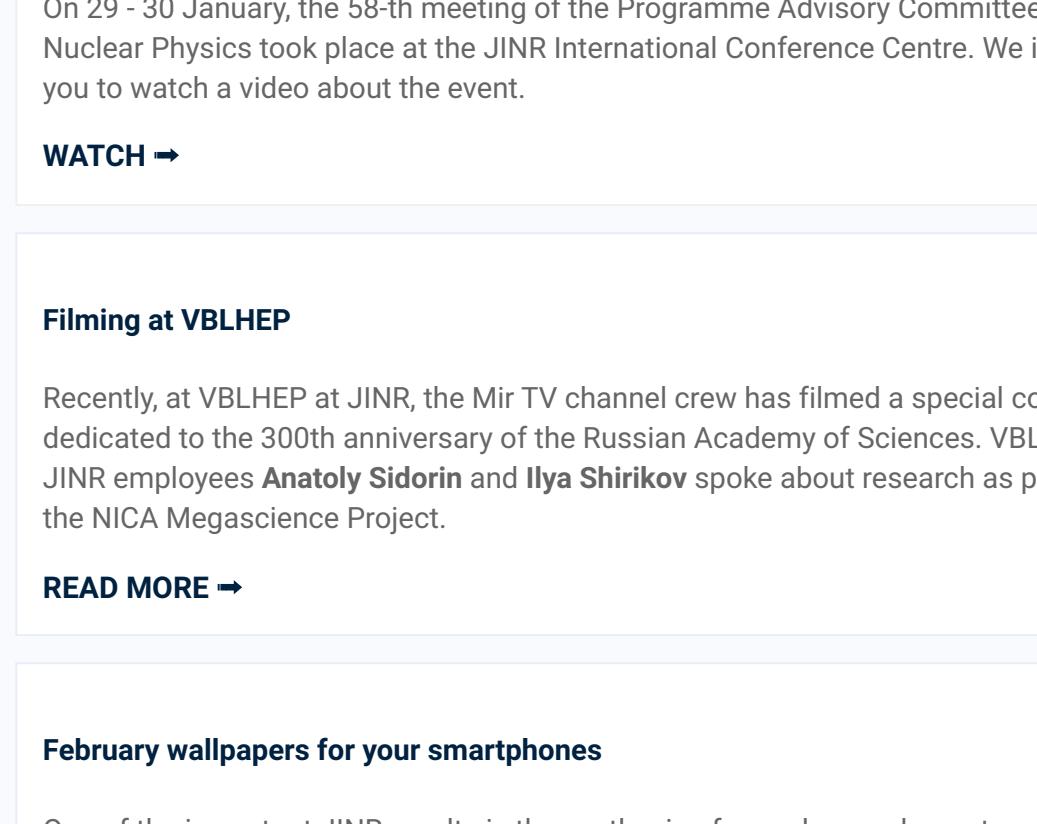


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Awards

JINR Director Grigory Trubnikov becomes Honorary Professor of Moscow State University

The award ceremony took place on 25 January in the main building of Lomonosov Moscow State University as part of the grand meeting dedicated to the 299th anniversary of the University. MSU Rector Victor Sadovnichy presented JINR Director Grigory Trubnikov with a diploma.



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Research

JINR received certificates of state registration of software

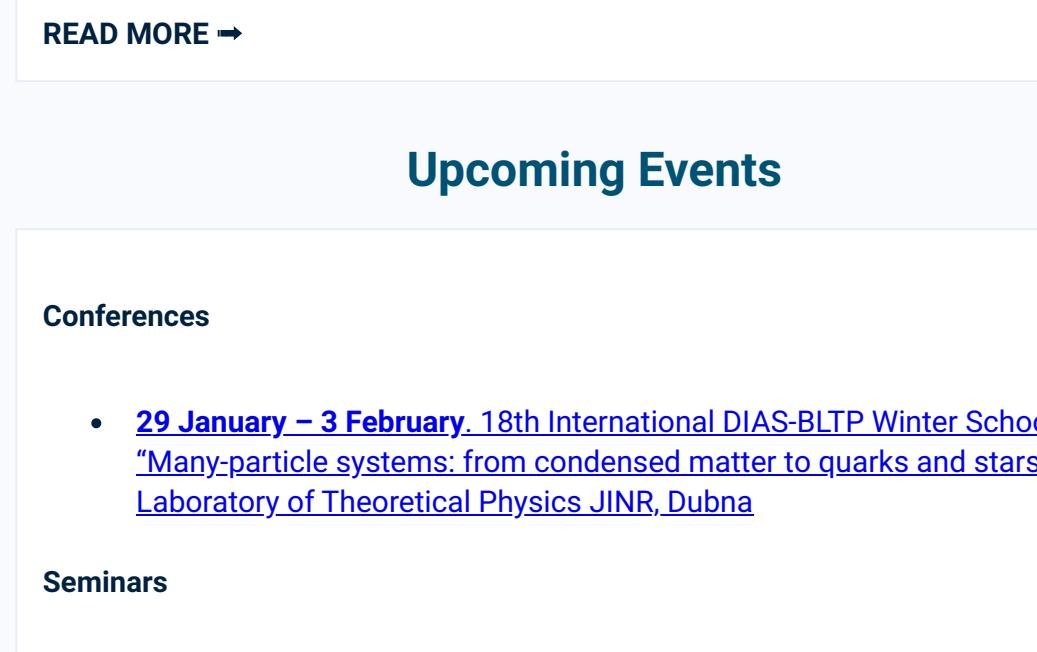
One of them is a "Intelligent control coordination system based on quantum fuzzy inference for Tango Controls" by Petr Zirov, Mikhail Katulin, Andrey Reshetnikov, and Sergey Ilyanov. The second one is a "Program for recovery of neutron spectra from Bonner spectrometer readings (RECONST)" by Liudmila Beskrovnya.

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Conferences

Winter school on many-particle systems starts at BLTP

JINR is hosting the 18th International DIAS-BLTP School "Many-particle systems: from condensed matter to quarks and stars". Participants are studying the properties of compact stars, discussing phase transitions, and the confinement problem in quantum chromodynamics.



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Scientific symposium on research at PAUL in South Africa

DLNP JINR employees Daniya Zinatulina, Ayagoz Baumukhanova, and Mikhail Zarubin participated in a scientific symposium that took place on 14 - 18 January in the Western Cape. The event was dedicated to the development of PAUL (Paarl Africa Underground Laboratory).

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JINR for Dubna

Grigory Trubnikov at opening of Industrial Medicine Reference Centre in Dubna

On 25 January, JINR Director Grigory Trubnikov and young JINR scientists took part in the grand opening of the Head Industrial Medicine Reference Centre in Dubna. It will coordinate 9 industrial medicine centres of the Federal Medical and Biological Agency of Russia in the cities of the JINR's location country.



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Announcements

Voice and speech training by Oksana Pliskovskaya

AVSS JINR invites everyone who wants to improve their public speaking skills to join the classes, which will take place on Mondays and Thursdays. Applications are accepted via [this link](#). The number of participants is limited. Registration will be available until 6 February.

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Registration for Wave 10 of INTEREST programme opens

The programme will take place from February to April 2024. You can submit your applications from 29 January to 16 February 2024. The list of JINR scientific programmes of Wave 10 is available [via this link](#).

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Publications

Building Dubna book published

The JINR Publishing Department has issued the *Building Dubna* book by Alexey Beklemishev. The publication presents the history of construction of the city from 1946 to 2020, as well as biographies of the heads of building organizations, engineers and technicians, foremen, and workers.

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Media

PAC for Nuclear Physics: video

On 29 - 30 January, the 58-th meeting of the Programme Advisory Committee for Nuclear Physics took place at the JINR International Conference Centre. We invite you to watch a video about the event.

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Filming at VBLHEP

Recently, at VBLHEP at JINR, the Mir TV channel crew has filmed a special coverage dedicated to the 300th anniversary of the Russian Academy of Sciences. VBLHEP JINR employees Anatoly Sidorin and Ilya Shirikov spoke about research as part of the NICA Megascience Project.

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February wallpapers for your smartphones

One of the important JINR results is the synthesis of superheavy elements. Lawrencium-103 was obtained at FLNR under the guidance of Georgy Flerov. Scientists assume that it is a silvery white metal. Maybe it looks just like the ice covering the waterway through the Moscow Canal Lock No.1, one of the most picturesque places in Dubna.

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Construction of PAUL Underground Laboratory

We invite you to watch a short video about the building of PAUL (Paarl Africa Underground Laboratory) in South Africa.

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Scientific tourism in Dubna

As part of the Decade of Science and Technology, JINR joined the scientific tourism movement in Russia. Deputy Director of the JINR Museum of History of Science and Technology Anastasia Zlotnikova talks about the programme in a report by Dubna TV channel.

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Video about past week JINR events

We offer you to watch a video review of recent events from the life of the Institute.

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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.

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Upcoming Events

Conferences

- **29 January – 3 February, 18th International DIAS-BLTP Winter School "Many-particle systems: from condensed matter to quarks and stars". Laboratory of Theoretical Physics JINR, Dubna**

Seminars

- **2 February, 11:30 AM, VBLHEP, "Neutron-excess nuclei. Structures and transformations" by Yuri Oganesian**
- **5 February, 11:00 AM, BLTP Journal Club, "Crossover from integer to fractional quantum Hall Effect" by Kaushal Kumar Kesharpur**
- **7 February, 11:00 AM, VBLHEP, "Bubble chambers – history, value, prospects" by Anton Baldin**
- **7 February, 3:00 PM, MLIT, "Repository of JINR scientific publications on DSpace (test version)" by Irina Filozova**

Culture

- **4 December 2023 – 2 February 2024, daily from 2:00 PM to 6:00 PM (except Monday), JINR Scientists' Club, Olga Trifonova, Art exhibition "Mir". Edges of graphics exhibition**
- **1 February, 7:00 PM, JINR Universal Public Library, Italian speaking club**
- **1 February, 7:00 PM, JINR Universal Public Library, Summer Reading List book club**
- **2 February, 6:00 PM, JINR Universal Public Library, JINR Cinema Club**
- **3 February, 7:00 PM, JINR Scientists' Club, "Wanderers" lecture**
- **3 February, 7:00 PM, JINR Universal Public Library, Meeting of Dubna tourists club**
- **3 February, 7:00 PM, JINR Cultural Centre "Mir", "Family dinner at half past one" performance**
- **4 February, 11:00 AM-12:15 PM, JINR Museum, "Secrets of paper" classes in JINR Museum**
- **8 February, 6:30 PM, JINR Museum of History of Science and Technology, "NICA Megascience Project or why you need an accelerator" by Sergei Merts**
- **8 February, 7:00 PM, JINR Cultural Centre "Mir", Film anthology premiere**

For Kids

- **3 February, 5:00 PM, JINR Universal Public Library, "Let's READers" and "Growing up from "Let's READers"**
- **4 February, 6:30 PM, JINR Universal Public Library, Intellectual tournament for schoolchildren**

[ALL JINR EVENTS →](#)

