

## JINR Newsletter #20, 27 May 2026

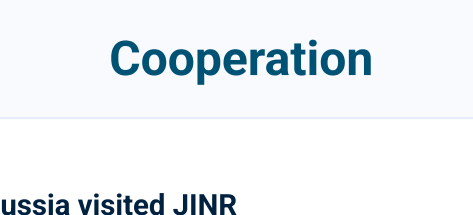
Dear colleagues and friends,

This week's events highlighted the role of Dubna as a town of international science. Ambassador Extraordinary and Plenipotentiary of Switzerland to Russia Jürg Burri toured the research facilities and held a meeting with the Institute's leadership. The parties expressed interest in continuing bilateral cooperation.

The "Chinese Scientists in Dubna" symposium in Beijing, dedicated to the 70th JINR anniversary, summarised the long-standing collaboration between JINR and China. Among participants were a Joint Institute delegation and representatives of several institutes of the Chinese Academy of Sciences.

Read more about a stage of the Russia-IAEA Regional School on Research Reactor Operation held in Dubna, the rarest natural single beta decay of zirconium-96 detected, FLNP JINR studies into the dynamics of medicinal compounds' molecular structure, and much more in the latest JINR Newsletter.

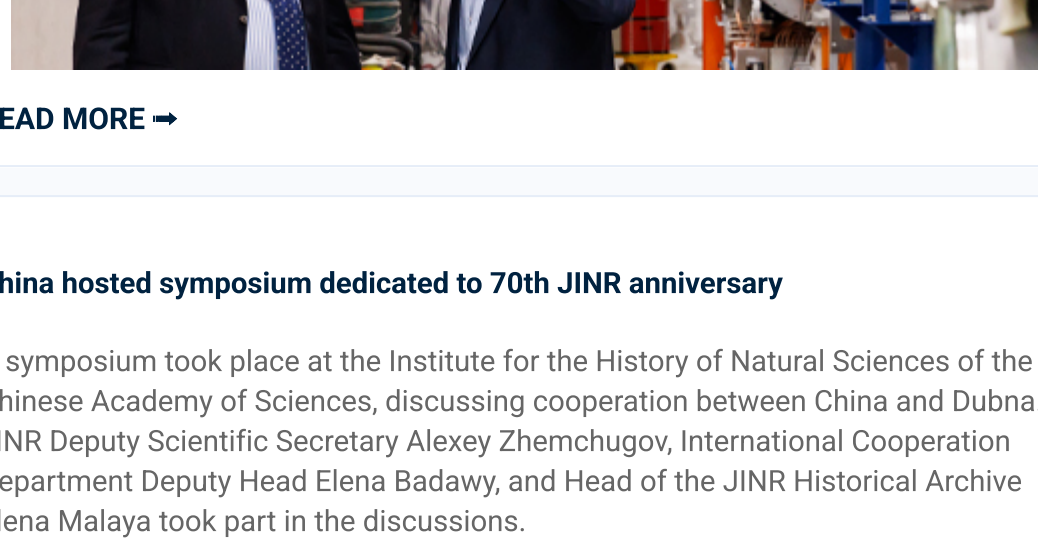
JINR Press Office



## Cooperation

### Swiss Ambassador to Russia visited JINR

On 26 May, Ambassador Extraordinary and Plenipotentiary of Switzerland to Russia Jürg Burri paid a working visit to JINR to learn about its scientific infrastructure and research. He toured the Laboratory of High Energy Physics, the Laboratory of Information Technologies, and met with the Institute's leadership.



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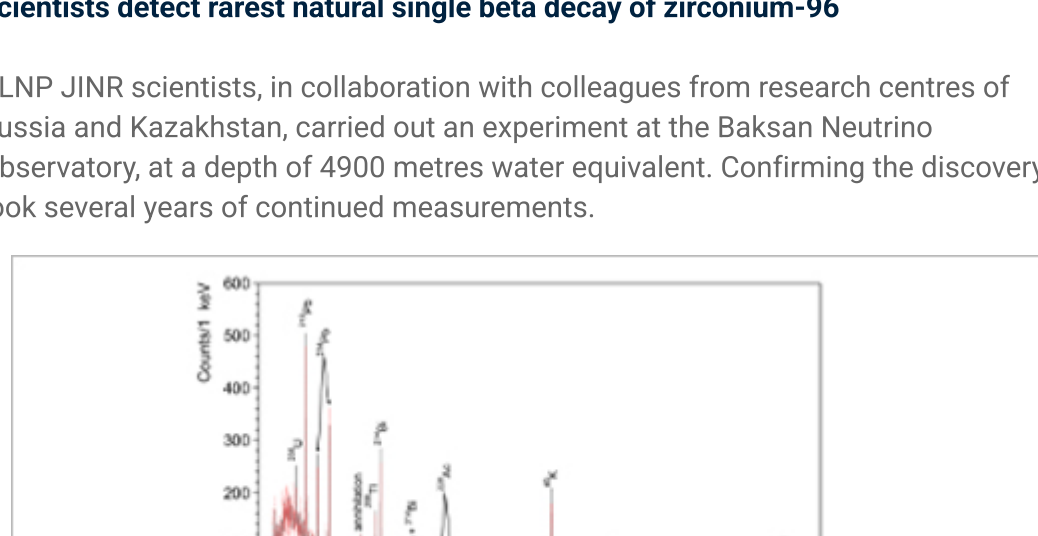
### China hosted symposium dedicated to 70th JINR anniversary

A symposium took place at the Institute for the History of Natural Sciences of the Chinese Academy of Sciences, discussing cooperation between China and Dubna. JINR Deputy Scientific Secretary Alexey Zhemchugov, International Cooperation Department Deputy Head Elena Badawy, and Head of the JINR Historical Archive Elena Malaya took part in the discussions.

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### JINR became platform for Russia-IAEA Regional School on Research Reactor Operation

Young specialists from Africa, the Middle East, Asia, and Eastern Europe visited JINR as part of a stage of the Regional School of Russia and the International Atomic Energy Agency. The programme included lectures on modern neutron sources in Russia and tours of JINR's scientific infrastructure.

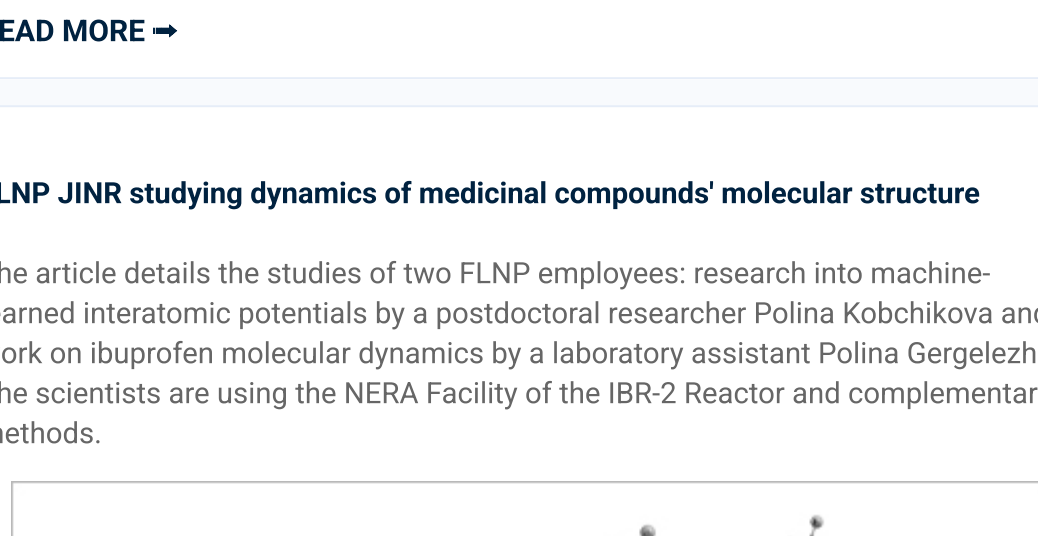


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## Research

### Scientists detect rarest natural single beta decay of zirconium-96

DLNP JINR scientists, in collaboration with colleagues from research centres of Russia and Kazakhstan, carried out an experiment at the Baksan Neutrino Observatory, at a depth of 4900 metres water equivalent. Confirming the discovery took several years of continued measurements.



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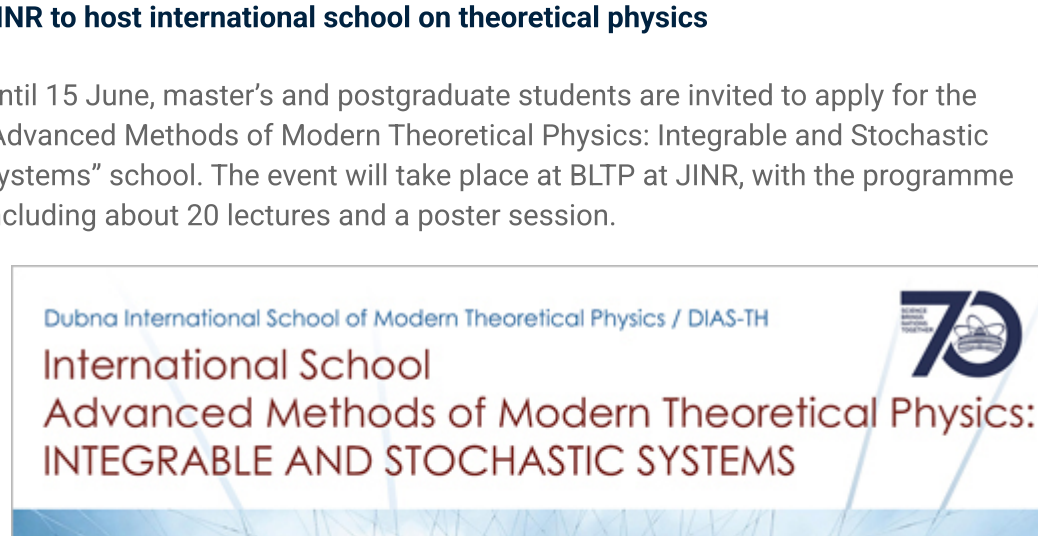
### DLNP JINR employees developed ionisation chamber set for ophthalmic oncology complex

Engineered by the Laboratory of Nuclear Problems for the OKO Project (Petersburg Nuclear Physics Institute), the equipment allows controlling beam intensity as well as horizontal and vertical measurements during proton therapy.

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### FLNP JINR studying dynamics of medicinal compounds' molecular structure

The article details the studies of two FLNP employees: research into machine-learned interatomic potentials by a postdoctoral researcher Polina Kobchikova and a work on ibuprofen molecular dynamics by a laboratory assistant Polina Gergelezhiu. The scientists are using the NERA Facility of the IBR-2 Reactor and complementary methods.



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## Education

### BLTP hosted third School on Molecular and Materials Modeling

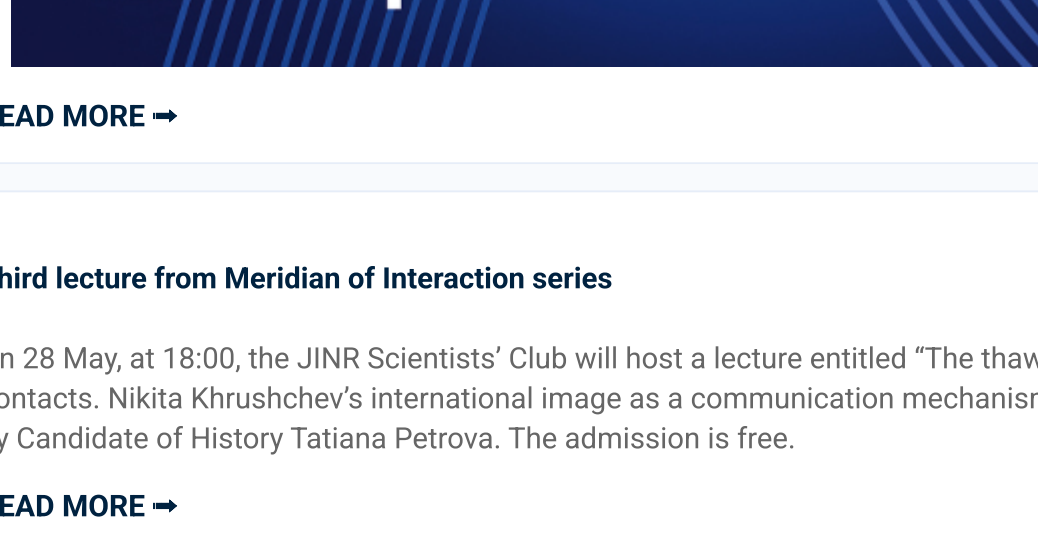
Held at the Laboratory of Theoretical Physics at JINR on 15 May, the school focused on modeling on personal computers using free access software and simple but illustrative examples not requiring significant computing power. The event gathered 70 participants from five countries in a hybrid format.

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## Announcements

### JINR to host international school on theoretical physics

Until 15 June, master's and postgraduate students are invited to apply for the "Advanced Methods of Modern Theoretical Physics: Integrable and Stochastic Systems" school. The event will take place at BLTP at JINR, with the programme including about 20 lectures and a poster session.



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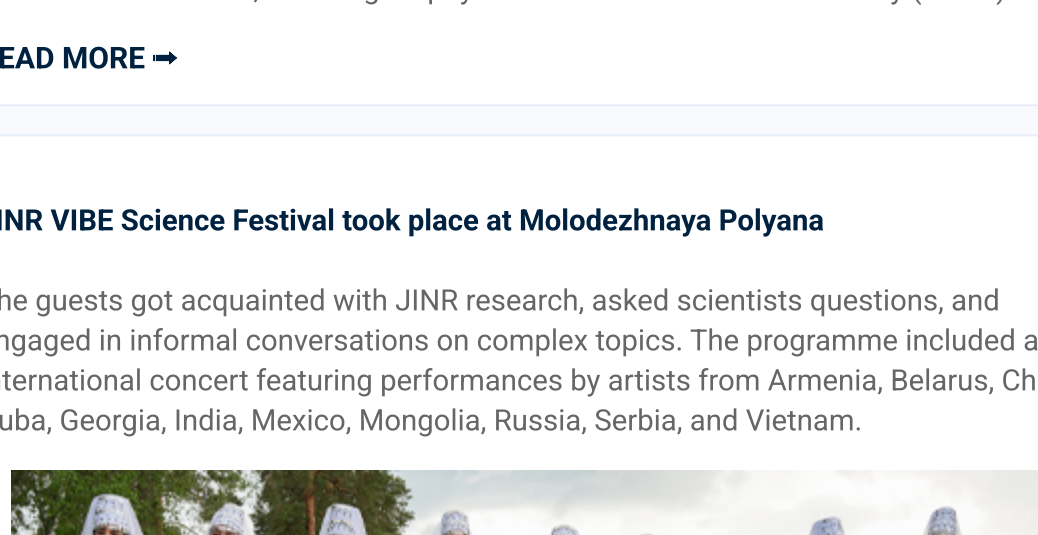
### Points of Contact public talk about science and art to take place in Dubna

On 28 May, FLNR JINR Scientific Leader Yuri Oganesian, contemporary art liminary Francisco Infante, as well as philosopher and composer Vladimir Martynov will take part in a public talk. In addition, Vladimir Martynov will give a solo piano performance.

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### Neutrino Physics and Particle Astrophysics programme invites applications

[Registration](#) is open for a free two-year programme for undergraduates, postgraduates, and young researchers interested in modern neutrino and particle physics, as well as astrophysics. The programme includes over 30 lecture courses and work on real research projects. Scholarship is granted after the first finals.



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### Third lecture from Meridian of Interaction series

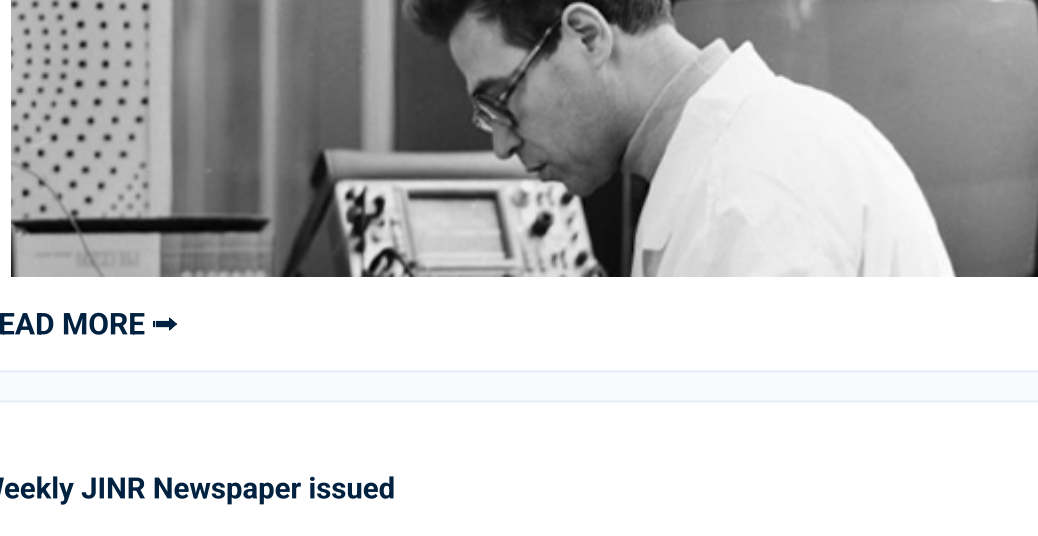
On 28 May, at 18:00, the JINR Scientists' Club will host a lecture entitled "The thaw of contacts. Nikita Khrushchev's international image as a communication mechanism" by Candidate of History Tatiana Petrova. The admission is free.

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## Media

### Trailer of short popular science film about Baikal Neutrino Telescope

Directed by Anastasia Eremenko (Gerasimov Institute of Cinematography), *Elusive Particles* combines documentary materials about the Baikal-GVD construction with AI visualisation. The full version will be available later as the film is currently on the festival circuit.



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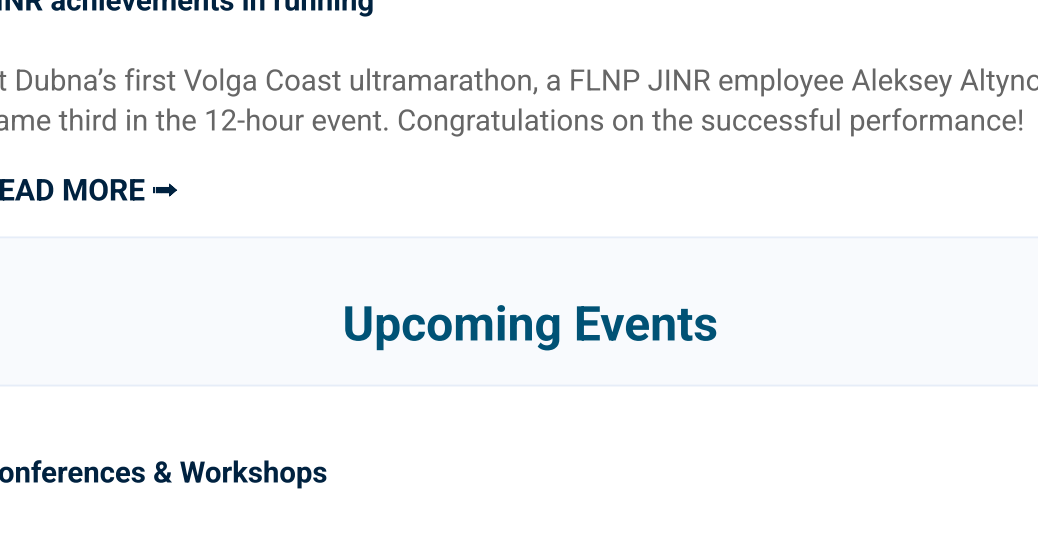
### Interview with DLNP MLIT researcher

The new guest of the *Chronograph*. *Time's Witnesses* series is Doctor of Physics and Mathematics Zoya Karpova. *Time's Witnesses* has worked at the Laboratory of Nuclear Problems since 2007, focusing on physics studies at the ATLAS Facility (CERN).

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### JINR VIBE Science Festival took place at Molodezhnaya Polyana

The guests got acquainted with JINR research, asked scientists questions, and engaged in informal conversations on complex topics. The programme included an international concert featuring performances by artists from Armenia, Belarus, China, Cuba, Georgia, India, Mexico, Mongolia, Russia, Serbia, and Vietnam.



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### May in JINR history

The JINR Telegram channel shared another post dedicated to important dates in the Institute's history. This month marks the establishment of several JINR laboratories and various visits of distinguished guests.

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### MLIT archival photos

The Telegram channel of the Laboratory of Information Technologies at JINR published a post presenting archival pictures taken throughout the years in May.



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### Weekly JINR Newspaper issued

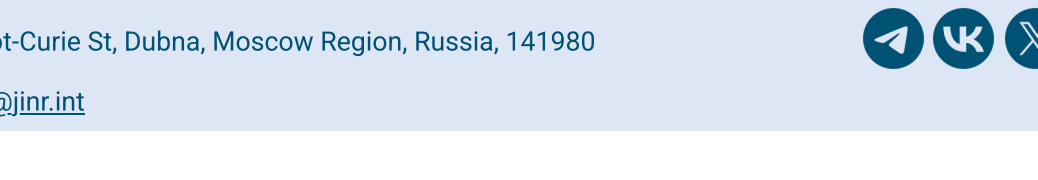
A new issue of the Weekly JINR Newspaper, #21, has been published. Please note that you can read an English version on the JINR Newspaper's website.

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## Sports

### JINR Sports Games: weightlifting

On 23 May, the Open JINR Weightlifting Championship dedicated to the Institute's 70th anniversary took place at the JINR Sports Club. JINR Director Grigory Trubnikov and Head of the Social Infrastructure Management Andrey Tamonov delivered welcome speeches.



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### JINR achievements in running

At Dubna's first Volga Coast ultramarathon, a FLNP JINR employee Aleksey Altynov came third in the 12-hour category. Congratulations on the successful performance!

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## Upcoming Events

### Conferences & Workshops

- [25–29 May, Results of VBLHEP, JINR relativistic nuclear physics studies, Ulaanbaatar, Mongolia](#)
- [25–30 May, 32nd International Seminar on Interaction of Neutrons with Nuclei \(ISINN-32\), JINR, Dubna](#)
- [1–5 June, Baikal Collaboration Workshop, JINR, Dubna](#)
- [1–5 June, JINR Days, Astana, Kazakhstan](#)

### Education

- [25–29 May, JINR Expertise for Member States and Partner Countries \(JEMS-29\) training programme, JINR, Dubna](#)

### Seminars

- [28 May, 14:30, BLTP, "On a model of nonlocal de Sitter gravity" by Zoran Rakić](#)
- [28 May, 15:00, MLIT, "Nonstandard finite difference methods for Hamiltonian systems" by Balt Batgerel](#)
- [28 May, 15:00, LRB, "BIOCUBAFARMA in the healthcare service, Cuba–Russia Synergy" by Alejandro Saul Padron, "Pharmacometrics in therapy combinations" by Ignacio Hernandez](#)
- [28 May, 16:00, BLTP, "Electromagnetic radiative corrections in proton radius measurements" by Alexander Ilyichev](#)
- [29 May, 11:30, VBLHEP, "The Josephson effect: from standard to abnormal – research, application, and prospects" by Ilhom Rahmonov](#)
- [1 June, 11:00, BLTP, Journal Club, "The muon g–2 anomaly arose from theory flaws rather than new physics" by Chitta Ranjan Das](#)
- [1 June, 15:30, BLTP, "Clustering in binary spontaneous fission process" by Gurgen Adamian](#)
- [3 June, 11:00, MLIT, Seminar of Alushta-2026 scientific conference participants](#)

### Culture

- [26 March – 1 June, JINR Mir Cultural Centre, "The First Star: the Birth of a New Interaction" exhibition](#)
- [20 May – 25 June, JINR Scientists' Club, "Bulgaria – motherland of Cyrillic alphabet" exhibition](#)
- [28 May, 16:30, JINR Scientists' Club, Meridian of Interaction lecture series, Lecture 3](#)
- [28 May, 18:00, JINR Mir Cultural Centre, Points of Contact public talk and concert](#)
- [28 May, 18:00, JINR Universal Public Library, English speaking club](#)
- [29 May, 18:00, JINR Universal Public Library, JINR Cinema Club](#)
- [29 May, 19:00, JINR Mir Cultural Centre, "Jazz Portraits of the Beatles" concert](#)
- [30 May, 18:00, JINR Universal Public Library, Gutenberg's Smoking Room meeting](#)

[ALL JINR EVENTS →](#)