

## JINR Newsletter #18, 22 May 2025

Dear colleagues and friends,

Dubna has recently welcomed representatives from different countries, fostering international cooperation and exchange of ideas. On 13 May, a delegation of the French Embassy in Russia visited JINR. This week, the Institute is hosting the 27th JEMS Training Programme for participants from Egypt, Nigeria, South Africa, and Vietnam.

The three-day BM@N Collaboration Meeting, focused on discussions of the large experiment as part of the NICA Project, concluded at the Laboratory of High Energy Physics.

JINR employees obtained a patent for a new filter material, which will significantly simplify and speed up the analysis of biological fluids of various origin.

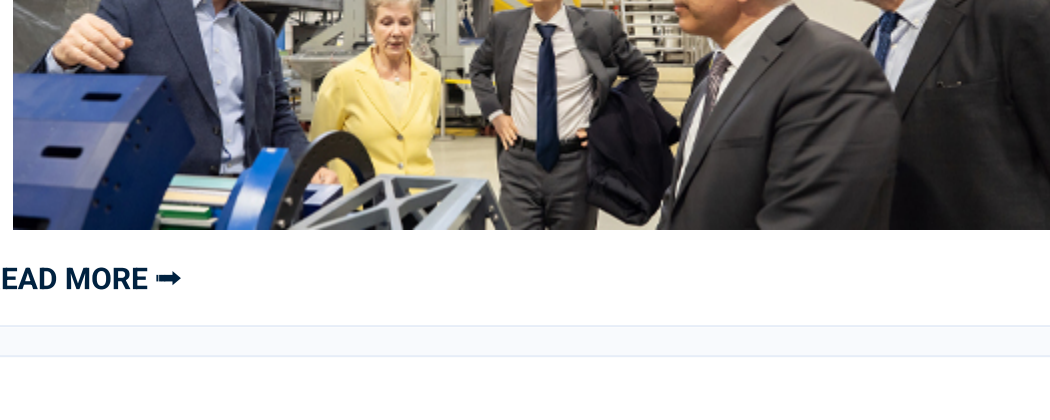
Read about a seminar in memory of an FLNP researcher Anatoly Nikitin, prestigious awards received by JINR teams, registrations to summer scientific schools for students, and much more in the latest issue of the JINR Newsletter.



## Cooperation

### Visit of delegation of French Embassy in Russia

Last week, a delegation of the French Embassy in the Russian Federation, headed by Minister Counsellor Zacharie Gross, was introduced to the Institute's scientific infrastructure and research projects. Representatives toured the sites of the Superheavy Element Factory, the IBR-2 Research Reactor, and the NICA Accelerator Complex.



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### 27th JEMS Training Course taking place at JINR

On 19 May, a five-day training programme for decision-makers in science and international scientific cooperation (JEMS) has started at JINR. The participants are 22 representatives of leading universities and institutes of Egypt, Nigeria, South Africa, and Vietnam.

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## Flagship Projects

### BM@N Collaboration Meeting took place at VBLHEP at JINR

During the 14th Collaboration Meeting, the participants discussed the progress and prospects of the BM@N Experiment conducted at NICA. The event gathered more than 135 participants from JINR and 13 leading scientific organizations and universities from five countries in a hybrid format.



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## Seminars

### Seminar on scientific heritage of Anatoly Nikitin took place at FLNP at JINR

The seminar dedicated to the memory of an FLNP leading researcher, a pioneer of neutron studies of rocks in Russia, took place. The programme of the event included reminiscences and presentations by the researcher's friends, colleagues, and mentees.

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## Patents

### JINR scientists developed new filter material

DLNP and FLNR employees obtained a patent for a material for selective extraction and concentration of extracellular nucleic acids from solutions, which can significantly simplify and speed up the analysis of biological fluids of various origin.

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## Congratulations

### JINR researchers received prestigious Russian state awards

The scientific contribution of leading JINR scientists was recognised with special state awards of the Russian Federation. Congratulations on the achievements!



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### FLNP JINR scientists among international exhibition winners

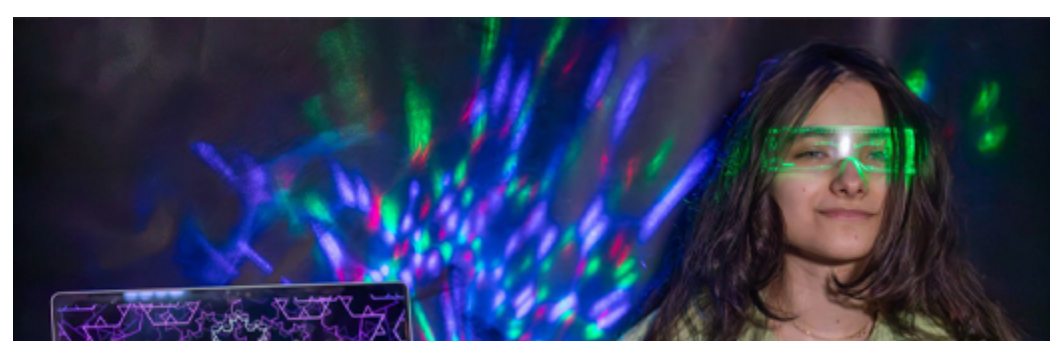
The 17th European Exhibition of Creativity and Innovation, Euroinvent-2025, took place in Iasi, Romania. Among winners were researchers of the Laboratory of Neutron Physics at JINR. Congratulations to our colleagues on receiving the awards!

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## Announcements

### Science Art Workshop at Summer School

The workshop is aimed at artists, scientists, and engineers who want to try their hand at creating a project at the intersection of science and art. The event will take place at the JINR Volga Recreation Centre from 2 to 17 July. Registration is available [via the link](#) until 30 May.



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### Registration opens for school on advanced methods of modern theoretical physics

From 20 to 25 July, the Laboratory of Theoretical Physics at JINR will host the International School on Advanced Methods of Modern Theoretical Physics: Integrable and Stochastic Systems. Master's and postgraduate students are invited to participate. Registration is available [via the link](#) until 15 June.

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### Applications invited for Complex Systems and Advanced Materials International School

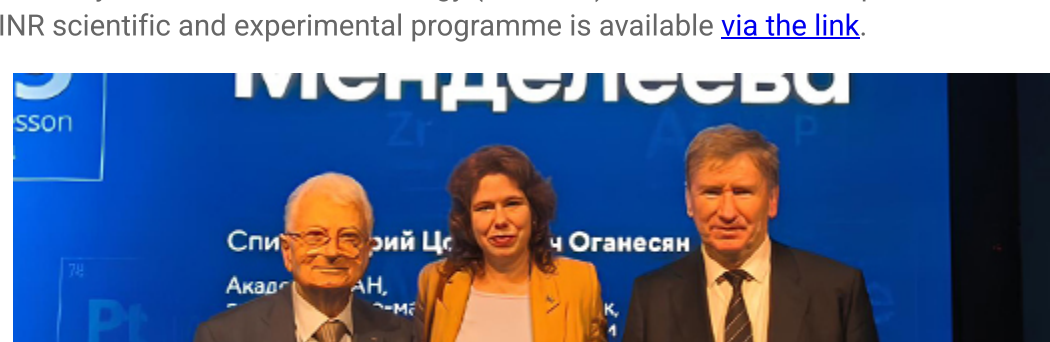
The school will take place on 30 June–4 July at the Bogoliubov Laboratory of Theoretical Physics. Young scientists, postgraduates, and senior students are welcome to participate. Registration is available until 1 June on the school's [website](#).

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## Media

### Visit of JINR representatives to MISIS

On 24 April, FLNR Scientific Leader Yuri Oganesian gave a lecture at the National University of Science and Technology (Moscow). The lecture on the periodic law and JINR scientific and experimental programme is available [via the link](#).



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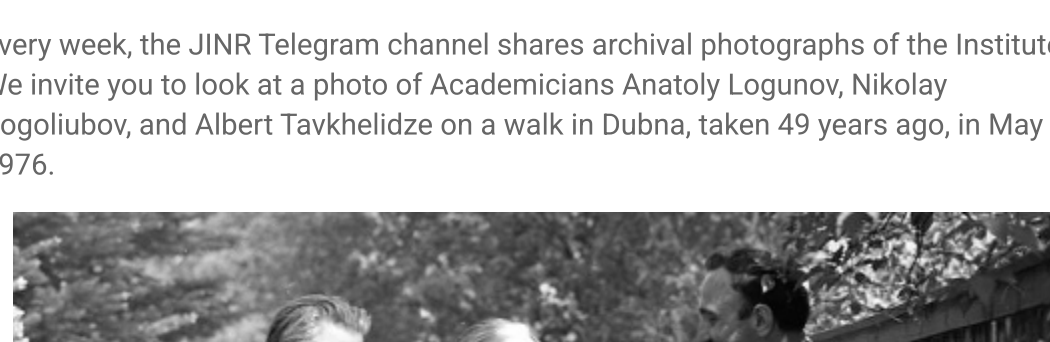
### Yuri Oganesian in Science Time on Komsomolskaya Pravda radio station

On 18 May, FLNR JINR Scientific Leader, Academician of the Russian Academy of Sciences Yuri Oganesian introduced the audience to the superheavy elements. He answered such questions as "Why do scientists spend major financial resources to synthesise new elements?", "Are the Periodic Table and material world infinite?", etc.

[WATCH →](#)

### A day in JINR history

Every week, the JINR Telegram channel shares archival photographs of the Institute. We invite you to look at a photo of Academicians Anatoly Logunov, Nikolay Bogoliubov, and Albert Tavkhelidze on a walk in Dubna, taken 45 years ago, in May 1976.



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### Seminar recordings

We invite you to watch recordings of the seminars "Yandex Cloud: technologies for the community. Cooperation prospects" by Evgeny Khokhlinov and "Specifics of the creation of a highly efficient veto system in experiments to search for lepton number violation"<sup>2</sup> by Aleksandr Simonenko.

[WATCH<sup>1</sup> →](#)

[WATCH<sup>2</sup> →](#)

### Weekly JINR Newspaper issued

A new issue of the Weekly JINR Newspaper #17-18 has been published. Please note that you can read an English version on the JINR Newspaper's website.

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## Sports

### Joint Institute at swimming competition in Turkey

On 16–18 May, Irina Migulina (VBLHEP) and Svetlana Smirnova (Radiation Safety Department) from the Element-105 swimming club won gold and silver medals for their outstanding performances at the Antalya Masters Open Water Swimming Competition in Turkey. We wish further success to our colleagues!



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### Institute's swimming tournament

The event took place on 18 May at the Archimedes Swimming Pool. Congratulations to the winners and participants! The next championship will take place at the end of June and will be devoted to the pool's anniversary.

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### JINR team won table tennis championship

This week, a JINR team took first place at the city championship in table tennis among organizations and educational institutions. Congratulations to the athletes on receiving the award!

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## Upcoming Events

### Conferences

- **26–30 May, 31st International Seminar on Interaction of Neutrons with Nuclei: Fundamental Interactions & Neutrons, Nuclear Structure, Ultracold Neutrons, Related Topics<sup>2</sup>** (ISINN-31), Dongguan, China

### Training

- **19–23 May, JINR Training Course "JINR Expertise for Member States and Partner Countries"** (JEMS-27), JINR, Dubna
- **26 May – 23 June, Internship for scientists from the Commonwealth of Independent States, JINR, Dubna**

### Seminars

- **22 May, 3:00 PM, FLNP, "IBR-2M Reactor launch after a long shutdown. Reactor dynamics"** by Yuri Pepelyshev
- **22 May, 4:00 PM, BLTP, "Overview of the 21st International Conference on Hadron Spectroscopy and Structure (Hadron 2025)"** by Andros Issadykov
- **23 May, 11:30 AM, VBLHEP, "Some applications of symmetry theory in particle physics and atomic nuclei physics"** by Alexey Isaev
- **27 May, 4:00 PM, Online on Zoom, "Random matrix theory approach to quantum Fisher information in quantum ergodic systems"** by Peter Ivanov
- **28 May, 11:00 AM, DLNP, "New detector solutions based on nuclear photoemulsions in fundamental particle physics experiments and muonography of cultural heritage sites"** by Tatiana Shchedina

### Culture

- **20 May – 15 June, Daily from 1:00 to 7:00 PM (except Monday), JINR Mir Cultural Centre, Remembering Pushkin exhibition**
- **22 May, 7:00 PM, JINR Universal Public Library, Summer Reading List book club**
- **22 May, 7:00 PM, JINR Mir Cultural Centre, Religious music concert in honour of 80th anniversary of Victory in Great Patriotic War**
- **23 May, 6:00 PM, JINR Universal Public Library, English speaking club**
- **23 May, 6:00 PM, JINR Universal Public Library, JINR Cinema Club**
- **24 May, 6:00 PM, JINR Universal Public Library, Gutenberg's Smoking Room meeting**
- **25 May, 12:30 PM, JINR Mir Cultural Centre, Opening of Remembering Pushkin exhibition**
- **25 May, 2:00 PM, JINR Mir Cultural Centre, Concert by Format dance studio**

### For Kids

- **24 May, 5:00 PM, JINR Universal Public Library, "Let's READers"**
- **24 May, 6:00 PM, JINR Universal Public Library, "Fiction from third desk" club meeting**

[ALL JINR EVENTS →](#)