



JINR Newsletter #9, 12 March 2025

Dear colleagues and friends,

8 March marked the International Women's Day. Dear ladies, congratulations from the Joint Institute! May your days be filled with love and respect and your scientific path provide many interesting tasks.

Specialists from the Laboratory of Neutron Physics at JINR confirmed the stable operation of the IBR-2 after the long shutdown. The reactor is set to undergo two more cycles this spring.

JINR continues to put forward and support educational initiatives. At the Peoples' Friendship University of Russia, the Institute's employees acted as observers in the Model United Nations training workshop, and the Russian Speaking Club at the JINR University Centre discussed its first successes.

Find out about the progress of the Chinese JUNO Detector, interesting research, the results of the 40th Fortov International Conference, and other news in the latest issue of the JINR Newsletter.



Flagship Projects

Another expedition to deploy Baikal neutrino telescope started

Despite the difficult weather conditions causing a delay and making the work challenging, the international collaboration, including employees of the Laboratory of Nuclear Problems at JINR, continue building the deep underwater Baikal-GVD Neutrino Telescope.



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Congratulations

Greetings of JINR Director on International Women's Day

Dear ladies, on behalf of the JINR Directorate, I would like to congratulate you on the International Women's Day. May your journey have fewer obstacles and more joyful moments and surprises. May all challenges you face be interesting for you to use them as stepping stones to new opportunities.



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Conferences

JINR at 40th Fortov Conference

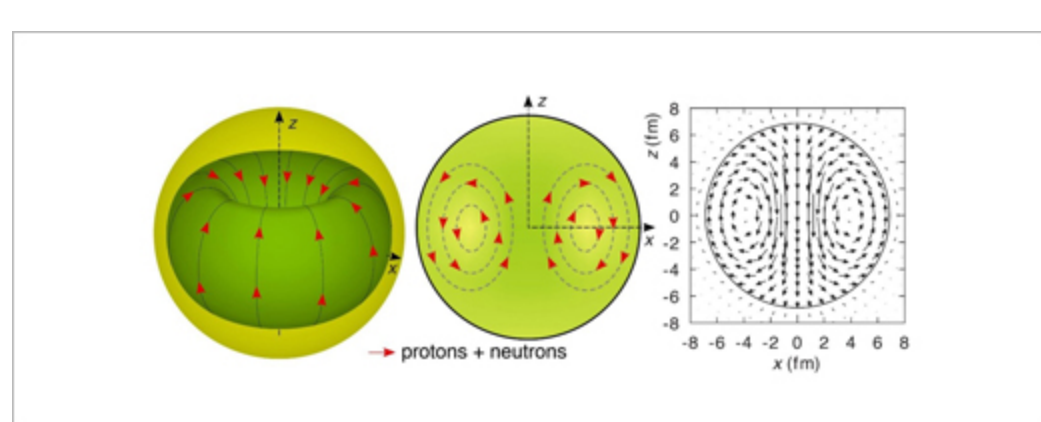
From 1 to 5 March, Fortov International Conference on Interaction of Intense Energy Fluxes with Matter took place at the Terskol village, Kabardino-Balkaria, near mount Elbrus. The speakers covered a wide range of scientific, technical, and methodological topics. JINR employees made two talks at plenary sessions and four poster presentations.

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Publications

Signs of vortex excitations discovered in nickel-58 nucleus

BLTP JINR researchers, together with colleagues from different countries, discovered that nickel-58 nucleus could host the unique and elusive toroidal dipole excitations. The results published in Physical Review Letters open up new opportunities for experimental study of atomic nucleus structure and vortex excitations' influence on heavy element nucleosynthesis.



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Influence of humidity on electrophysical properties of protective DLC layers of GEM detectors

Scientists of the Institute for Nuclear Problems and the Physics Department of the Belarusian State University together with VBLHEP JINR employees concluded that the influence of humidity on DLC is caused by the formation of an additional layer of water molecules on the surface of nanosized DLC coatings.

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Education

JINR employees helped RUDN students model IAEA committee

Representatives of the JINR University Centre and International Cooperation Department took part in the Model UN simulation which took place at RUDN University from 3 to 5 March. This game gives opportunity to try oneself as a member of a UN session. This time the participants recreated an IAEA meeting.



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Books

New Book Acquisitions exhibition in S&T Library

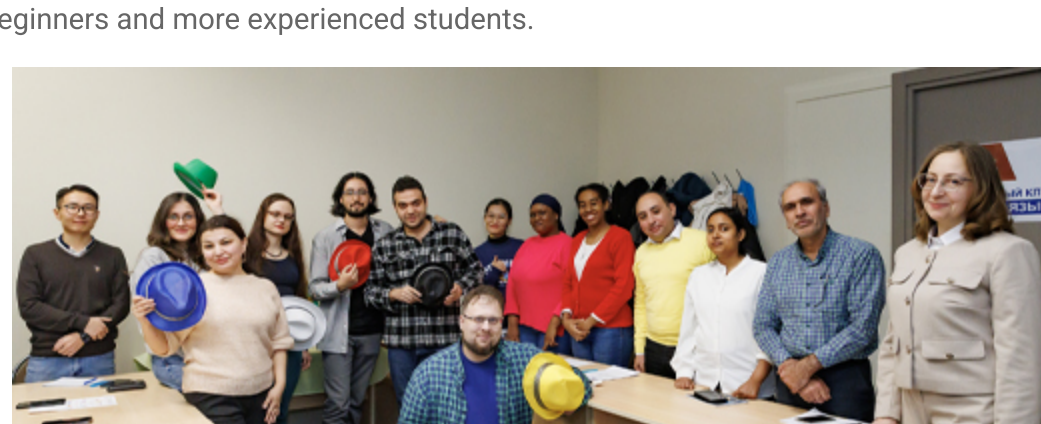
On 3–28 March, the JINR Science and Technology Library is hosting the New Book Acquisitions exhibition. In addition to monographs, popular science books, and educational material, you will find the biography of an eminent polymath Leonhard Euler and the reminiscences of a physicist Guido Tonelli about the Higgs boson discovery.

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Social

From "A" to «Я»: JINR Russian Speaking Club

The club was created by the JINR University Centre in Dubna to help the Institute's employees overcome the language barrier that complicates their social and professional adaptation. The Russian Speaking Club offers group classes and individual consultations focused on live communication and suitable for both beginners and more experienced students.

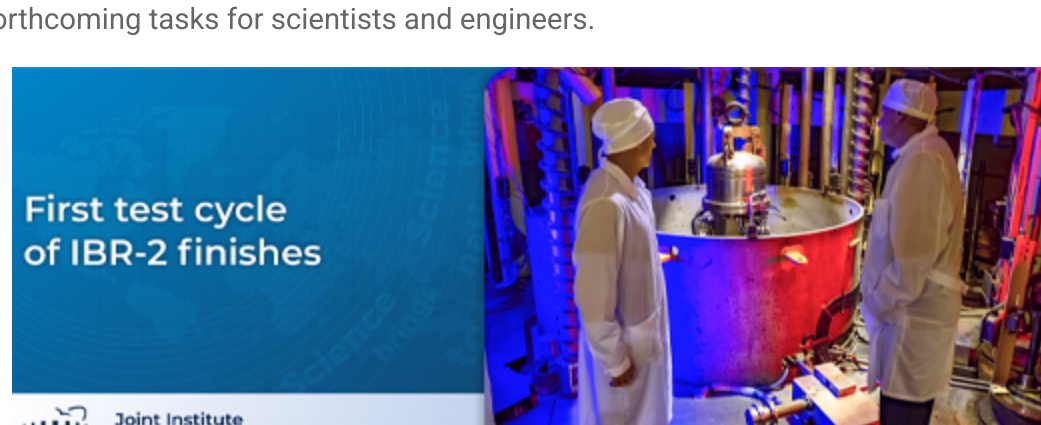


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Media

First test cycle of IBR-2 finishes

Please enjoy a video in which Egor Lychagin answers questions on the start of the first experiments at the IBR-2 Facility, results of the reactor's test run, and forthcoming tasks for scientists and engineers.



[WATCH in VK →](#)
[WATCH on YouTube →](#)

JUNO Detector update

Head of the DLNP JINR Experimental Neutrino Physics Sector Yuri Gornushkin commented on the work of the international collaboration of the Jiangmen Underground Neutrino Observatory in China.

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Weekly JINR Newspaper issued

A new issue of the Weekly JINR Newspaper #9 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

- [18 March, 11:00 AM, MLIT. Seminar dedicated to 95th anniversary of Nikolay Govorun](#)

Seminars

- [13 March, 11:00 AM, VBLHEP. "Multifunctional system for measuring fields of ring accelerator magnets based on string techniques" by Ilya Nikolaichuk](#)
- [13 March, 2:00 PM, BLTP. "Integrable Landau-Lifshitz equations and field-theoretic generalisations of particle systems" by Kantemir Atalikov](#)
- [14 March, 11:30 AM, VBLHEP. "New quantum phase transition in accelerated relativistic fluid" by Georoy Prokhorov](#)
- [14 March, 11:00 AM, MLIT. "Variational formalism for oscillons and breathers" by Igor Barashenkov](#)
- [17 March, 11:00 AM, FLNP. "DIDEN Software Package for work with CAEN digitisers with open FPGAs" by Mikhail Katulin](#)
- [17 March, 11:00 AM, MLIT. "Automatic control systems based on fuzzy logic technologies, artificial neural networks, and quantum-like algorithms" by Elena Litvinenko](#)
- [17 March, 3:00 PM, JINR Scientists' Club. "Multifunctional system for measuring fields of ring accelerator magnets based on string techniques" by Ilya Nikolaichuk](#)

Culture

- [7 – 27 March, Weekdays from 2:00 to 7:00 PM, JINR Scientists' Club, Exhibition "Engravings, lithographs, and photographs of the Russo-Turkish War of 1877-1878"](#)
- [15 March – 11 May, JINR Universal Public Library, "Fatherland defenders in my family tree" exhibition](#)
- [13 March, 7:00 PM, JINR Universal Public Library, Summer Reading List book club](#)
- [14 March, 6:00 PM, JINR Universal Public Library, English speaking club](#)
- [14 March, 6:00 PM, JINR Universal Public Library, JINR Cinema Club](#)
- [16 March, State Historical Museum, Trip by "JINR Scientists' Club"](#)
- [19 March, 7:00 PM, JINR Mir Cultural Centre, "Universe of Bach" piano concert](#)

For Kids

- [14 March, 5:00 PM, JINR Universal Public Library, SmART classes for children from 10 to 12 years](#)
- [14 March, 6:30 PM, JINR Universal Public Library, Growing up from "Let's READers"](#)
- [15 March, 5:00 PM, JINR Universal Public Library, SmART classes for children from 7 to 8 years](#)
- [15 March, 5:00 PM, JINR Universal Public Library, "Let's READers"](#)

Sports

- [15 March, 11:00 AM, JINR Nauka Stadium, 26th JINR Sports Games, Table tennis for children](#)
- [15 March, 12:00 PM, JINR Nauka Stadium, 26th JINR Sports Games, Rifle shooting](#)
- [16 March, 11:00 AM, JINR Nauka Stadium, 26th JINR Sports Games, Table tennis](#)
- [19 March, 6:30 PM, JINR Nauka Stadium, 26th JINR Sports Games, Darts](#)

[ALL JINR EVENTS →](#)