JINR Newsletter #40, 23 October 2025

Dear colleagues and friends,

The Quantum Computing and Machine Learning workshop organized by the Laboratory of Information Technologies at JINR and the Egyptian Academy of Scientific Research and Technology took place. JINR–Egypt cooperation was widely discussed, including the prospects of holding student internships, which highlighted the Institute's commitment to use its economic and intellectual resources to enrich the scientific knowledge of the Member States.

The Institute is hosting the Current Problems in Radiobiology conference this week. Topping the agenda is advanced fundamental studies in the field and their practical application. This year's conference is dedicated to the 20th anniversary of the Laboratory of Radiation Biology at JINR and the memory of Professor Evgeny Krasavin.

Over 200 scientists are discussing the progress and prospects of the Spin Physics Detector (SPD) at NICA at the 10th Collaboration Meeting. The Modern Problems of Nuclear Energy and Nuclear Technologies international conference took place in Uzbekistan with JINR participation. Read about this and much more in the latest JINR Newsletter.

Telegram
@jinrofficial

Cooperation

Round table with representatives of Egyptian scientific organizations

The session took place on 13 October during the QCML workshop. Representatives of JINR, ASRT, and Egyptian scientific organizations discussed the implementation of quantum computing development strategy in Egypt, studies in the field, and cooperation prospects.

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Prospects of holding JINR student internships for Africa discussed in Cairo

The Egyptian Academy of Scientific Research and Technology (ASRT) held a meeting dedicated to organizing a joint internship for students from Egypt and South Africa as part of the Quantum Computing and Machine Learning (QCML) workshop. The Institute plans to host African students in summer 2026.

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Conferences

10th SPD Collaboration Meeting: 100 years of spin discovery

The event is taking place from 20 to 23 October at the Laboratory of High Energy Physics. More than 200 scientists and young specialists are discussing the progress of the Spin Physics Detector at the NICA Accelerator Complex and exchanging ideas on cooperation development.

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Scientists from JINR, Armenia, and Bulgaria discussing theoretical physics at workshop in Yerevan

From 20 to 24 October, the Yerevan Physics Institute is hosting the Symmetries: Bulgaria–Armenia–Dubna — SymBAD'25 international workshop. The event aims to develop scientific cooperation and strengthen ties between Bulgaria, Armenia, and the Joint Institute for Nuclear Research.

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9th international conference on radiation biology taking place at JINR

Scientists are discussing the results of fundamental research and their practical application. The conference is dedicated to the 20th anniversary of the Laboratory of Radiation Biology at JINR and the memory of Evgeny Krasavin.

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JINR and Egypt combine efforts to advance quantum computing

On 11–14 October, Cairo hosted the QCML workshop organized by the Laboratory of Information Technologies at JINR and the ASRT. The event brought together approximately 120 scientists from Armenia, the Czech Republic, Egypt, Georgia, Russia, and South Africa.

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Nuclear energy and technology issues discussed in Uzbekistan with JINR participation

From 14 to 16 October, Tashkent hosted the 11th Modern Problems of Nuclear Energy and Nuclear Technologies international conference dedicated to the 80th anniversary of the birth of Academician Bekhzod Yuldashev. The event brought together over 200 participants from 16 countries, including China, Italy, Kazakhstan, Russia, etc.

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Research

JINR received patent for biological sample cooling device

The development by employees of the Laboratory of Nuclear Problems and the Laboratory of High Energy Physics allows maintaining stable conditions during research with biomaterials.

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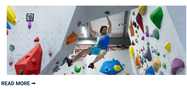
Announcements

Climbing festival to take place in Dubna

On 25–26 October, athletes over the age of 18 are welcome to join the annual Dubna Boulder Fest autumn tournament. JINR employees can participate in a separate category. This year, the routes will be organized by the team of Pavel Isaev, trail setter at national and international competitions.



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Mathematics. Computing. Education conference invites applications

The 33rd MCE international conference will take place on 26–31 January 2026 at Dubna State University in a hybrid format. If you would like to participate, please send an application via the link no later than 14 December 2025.

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Media

JINR podcast teaser

Please enjoy a trailer of the second episode of the podcast. Stay tuned for the full video set to air on 23 October!

WATCH →

Seminar recordings

We invite you to watch recordings of the seminars "LINAC with twisted electron beams" by Dmitry Karlovets[1], "Interaction of optical radiation with biological objects" by Dmitry Gorin[2], and "Studies of photon-photon and photon-hadron interactions at the LHC" by Evgeny Kryshen[3].

WATCH[1] →
WATCH[2] →
WATCH[3] →

A day in JINR history

The JINR Telegram channel shared another archival photo of the Institute. Take a look at Yuri Tumanov, an outstanding photographer who worked at the Institute for around 50 years, in a darkroom. The photo was taken by Nikolay Gorelov 47 years ago, in October 1978.

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Weekly JINR Newspaper issued

A new issue of the Weekly JINR Newspaper, #40, has been published. Please note that you can read an English version on the JINR Newspaper's website.

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Upcoming Events

Meetings

- **20–23 October**, 10th SPD Collaboration Meeting, JINR, Dubna
- **24 October**, 3rd meeting of the JINR-China Joint Coordination Committee on cooperation in fundamental research, JINR, Dubna
- **28–30 October**, 16th Collaboration Meeting of the MPD Experiment at the NICA Facility, JINR, Dubna

Conferences

- **20–24 October**, "Current problems in radiobiology. Accelerated charged particles and neutrons in radiobiology" international conference, JINR, Dubna
- **20–24 October**, Symmetries-2025 international workshop, Yerevan, Armenia
- **27–30 October**, Neutron Physics and Radiation Materials conference (NPRM-2025), Yerevan, Armenia
- **27–31 October**, 29th International Scientific Conference of Young Scientists and Specialists (AYSS-2025), JINR, Dubna

Training

- **27–31 October**, Scientific and methodological school for physics teachers, JINR, Dubna

Seminars

- **23 October**, 3:00 PM, FLNP, "Boron-based materials for advanced applications" by Bulent Buyuk
- **23 October**, 3:30 PM, FLNR, "Deformed nuclear shells in the mass-energy distributions of fission fragments obtained in the ^{238}U(n,f) at En=22 MeV and ^{232}Th(n,f) at En=29 MeV reactions" by Anatoly Pan
- **24 October**, 11:30 AM, VBLHEP, "52nd International Symposium on Multiparticle Dynamics. Overview of presentations" by Elena Kokoulina
- **27 October**, 11:00 AM, BLTP, Journal Club, "Resonant loop interferometers for high-frequency gravitational waves" by Adeela Afzal
- **28 October**, 11:30 AM, DLNP, "Modification and characterisation of plates using charged particles to create quantum electromagnetic field sensors" by Marat Yesseev

Culture

- **16 October – 9 November**, Daily from 1:00 to 7:00 PM (except Monday), JINR Mir Cultural Centre, Watercolor and graphics exhibition
- **23 October**, 6:00 PM, JINR Universal Public Library, English speaking club
- **23 October**, 7:00 PM, JINR Universal Public Library, Summer Reading List book club
- **23 October**, 7:00 PM, JINR Museum of History of Science and Technology, Astronomical meeting in JINR Museum
- **24 October**, 5:00 PM, JINR Museum of History of Science and Technology, Presentation of Vladislav Zhchegolev's memoirs
- **24 October**, 6:00 PM, JINR Scientists' Club, Concert
- **24 October**, 6:00 PM, JINR Universal Public Library, JINR Cinema Club
- **25 October**, Moscow, Russia, Trip by JINR Scientists' Club

Sports

- **25–26 October**, Dubna Climbing Gym, Dubna Boulder Fest

ALL JINR EVENTS →

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