JINR Newsletter #14, 17 April 2025

Dear colleagues and friends,

Work on the cooperation development with the JINR Member States continues. Members of the Bulgarian National Assembly visited JINR. The Joint Institute hosted a meeting of representatives of the Ministry of Science and Higher Education of the Russian Federation. Representatives from Belarus, Kazakhstan and Russia attended the JINR training course for decision-makers this Monday in Dubna.

The JINR Flagship Projects are steadily progressing. This week, the 10th Collaboration Meeting of the MPD Experiment at NICA gathered more than 190 participants on URA VIDEO and online. The Baikal-GVD Neutrino Telescope has recently detected a galactic neutrino flux with the energy above 200 TeV.

Q&A session with Yuri Oganessian, recipient of the Spring IT School, FLNR's cooperative research into air pollution with students and schoolchildren, and much more — in this issue of the JINR Newsletter.

Telegram
@jinnofficial

Cooperation

Delegation from Bulgaria visited JINR

On 7–8 April, members of the Bulgarian National Assembly, Yordan Todorov and Angel Yanchev, visited the Joint Institute for Nuclear Research. The delegates became familiar with JINR's scientific infrastructure and research projects.

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Cooperation with FMBA discussed at JINR

On 11 April, JINR held a working meeting on the implementation of joint research with the Federal Medical and Biological Agency of the Russian Federation. The key topics of the discussions was the development of new projects.

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JINR and FEFU carry out volunteer ecological monitoring as part of UN project

FLNP and Far Eastern Federal University are studying the effect of air pollution on human health. Schoolchildren from the Sirius Primorye centre took part in the collection of mosses for future biomonitoring. The data obtained will be used to improve the environmental situation in Primorsky Krai, Russia.

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26th JINR Training Course started at JINR

On 14 April, a one-week international training programme for decision-makers in science and international scientific cooperation (JINR) has started at JINR. This time, 20 representatives from leading universities and institutes of Belarus, Kazakhstan and Russia are participating.

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Conferences

15th MPD Collaboration Meeting at JINR

On 15–17 April, URA VIDEO JINR is hosting the 15th Collaboration Meeting of the MPD Experiment at NICA in a hybrid format. The updated plan of the multi-purpose detector project was presented. The state of NICA, the main MPD systems, and the future physics research programme were discussed.

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Research

Galactic neutrino flux with energy of 200 TeV detected by Baikal-GVD

Members of the Baikal-GVD Collaboration analysed the events registered from 2018 to 2023. Scientists confirmed the detection of neutrinos with calculated energies above 200 TeV. The article on the results of the study was published in the Astrophysical Journal.

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Publications

Review of Particles and Nuclei Letters journal, #2 2025

The JINR Publishing Department has issued the second part of this year's volume of the "Physics of Elementary Particles and Atomic Nuclei. Letters" journal that includes articles with the results of theoretical, experimental, scientific and technical, methodical, and applied research. You are welcome to get acquainted with Issue 2 on the JINR website.

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Education

Spring IT School ended: "JINR is where your ideas can come true"

On 10 April, the JINR Spring School on Information Technology finished at MLIT. During two days, students from universities of the Russian Federation and the Republic of Belarus presented results of their works based on JINR research topics under the guidance of MLIT specialists.

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Children science fair at JINR Museum

The JINR Museum of Science and Technology History hosted the 10th Mendeleev Readings scientific and practical conference for schoolchildren aimed at popularising science. The participants gave talks on their research in chemistry, biology, physics, mathematics, and astronomy. All presentations were accompanied by science experiments.

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Awards

JINR scientists received prestigious state awards

The scientific contribution of leading JINR researchers was recognised with special state awards of the Russian Federation. You can find the full list of laureates on the website. Congratulations on the achievements!

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Announcements

Element of Knowledge film screening and discussion with Yuri Oganessian

On 19 April, the JINR Mir Cultural Centre will host an event marking Yuri Oganessian's birthday. The programme includes a Q&A session with the world-renowned scientist and a demonstration of the Element of Knowledge documentary dedicated to him.

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Media

Tortoise band congratulated Yuri Oganessian on his birthday

14 April marked the 92nd birthday of FLNR JINR Scientific Leader Yuri Oganessian. A few weeks earlier, the American post-rock band Tortoise released a song named after element 118, oganesson. The musicians joined in the celebration on their social media.

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International Day of Human Space Flight

12 April marked the International Day of Human Space Flight. The Joint Institute for Nuclear Research congratulates all those who are fond of studying the vastness of space and strive for new horizons!

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Dialogues about Future with Yuri Oganessian

In a new episode of Dialogues about the Future, 2024 OGANESSON Prize winner Tatiana Chernigovskaya and FLNR JINR Scientific Leader Yuri Oganessian are discussing artificial and natural intelligence, the unique human gift of cognition, and our brain's ability to create worlds.

WATCH ➡

JINR researchers win scientific Oscar in USA as part of international collaborations

On 5 April, the Breakthrough Prize 2025 ceremony took place in Los Angeles. The award in fundamental physics was given to the experimental groups including JINR employees from DLNP, VBLHEP, MLIT, and BLTP participating in three projects at the Large Hadron Collider — ATLAS, ALICE, CMS.

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Third cycle starts at IBR-2

On 14 April, the IBR-2 Reactor reached the operating capacity of 1.4 MW for the cycle, which will continue until 23 April. The next cycle is scheduled for 13 October 2025 after the summer maintenance. For more details, please visit the website of IBR-2 User Club.

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Seminar recordings

We invite you to watch recordings of the seminars "Study of directed flow in nucleus-nucleus collisions at energies E_{lab} = 1.2 ÷ 4.8 A GeV" by Mikhail Mamaev and "Time readout electronics from proportional narrow-gap drift chambers for determining electron coordinates on user channels of the LINAC-200 Linear Accelerator" by Vladislav Punkus.

WATCH ➡
WATCH ➡

Weekly JINR Newspaper issued

A new issue of the Weekly JINR Newspaper #14 has been published. Please note that you can read an English version on the JINR Newspaper's website.

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Sports

Dubna athletes awarded by government

Marking the 70th anniversary of the Naukа Stadium, ten Dubna athletes and employees of JINR sports facilities were presented with letters of gratitude and honorary certificates from the Moscow Region Duma for active social work.

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JINR team won swimming championship

The JINR's swimming team took first place in the city championship among 9 organizations and educational institutions. We wish the athletes further success!

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Upcoming Events

Education

- **14–18 April**: Training Course "JINR Expertise for Member States and Partner Countries" / Kibelo 20 / JINR, Dubna

Collaboration Meetings

- **10–17 April**: 10th Collaboration Meeting of the MPD Experiment at the NICA Facility, JINR, Dubna

Conferences

- **21–25 April**: JINR days in Uzbekistan, Tashkent, Uzbekistan

Seminars

- **17 April**, 2:00 PM, BLTP, "Presymplectic structures and minimal first-order Lagrangians for massive fields" by Vyacheslav Dotsenko
- **17 April**, 3:00 PM, MLIT, "Mathematical models and methods for organizing distributed computing and their implementation" by Pavel Rzevski
- **18 April**, 2:00 PM, BLTP, "Dynamics of quantum fields and their localised perturbations in curved space" by Alexander Belokon
- **18 April**, 2:30 PM, BLTP, "Elliot SU(3) model in nuclear physics (Introduction to algebraic models of nuclear structure)" by Ruben Ganev
- **22 April**, 11:00 AM, BLTP, "Quantum field theory without divergences: the case of non-perturbative theories" by Yulia Kuperay
- **23 April**, 3:00 PM, Meeting of BLTP Dissertation Council, "Following the leading branching QED approximation" by Liliana Vozniana

Culture

- **21 March — 21 April**, Daily from 1:00 to 7:00 PM (except Mondays), JINR Mir Cultural Centre, JINR scientists' art exhibition
- **1–25 April**, Weekdays from 2:00 to 7:00 PM, JINR Scientists' Club, Photo exhibition "About Dubna and more..."
- **17 April**, 6:30 PM, JINR Universal Public Library, JINR Cinema Club
- **17 April**, 7:00 PM, JINR Universal Public Library, Hanish book club
- **18 April**, 6:00 PM, JINR Scientists' Club, JINR Film Union
- **18 April**, 6:00 PM, JINR Mir Cultural Centre, Element of Knowledge film screening and discussion with Yuri Oganessian
- **19 April**, 6:00 PM, JINR Universal Public Library, English speaking club
- **18 April**, 6:30 PM, JINR Universal Public Library, Scrapbooking club's meeting
- **19 April**, 3:00 PM, JINR Mir Cultural Centre, Music Box concert
- **19 April**, 4:00 PM, JINR Mir Cultural Centre, Vocal music concert
- **20 April**, Zvenigorod Manege, Trip by JINR Scientists' Club

For Kids

- **17 April**, 5:00 PM, JINR Universal Public Library, Class for children
- **18 April**, 6:30 PM, JINR Universal Public Library, Growing up from "Let's READers!"
- **19 April**, 3:00 PM, JINR Universal Public Library, SmART classes for children
- **19 April**, 5:00 PM, JINR Universal Public Library, "Let's READers"
- **19 April**, 6:00 PM, JINR Universal Public Library, Meeting of book club for teenagers

ALL JINR EVENTS ➡

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6, Joliot-Curie St, Dubna, Moscow Region, Russia, 141980
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