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FLNP JINR developed highly efficient detector of thermal and cold neutrons

Scientists of the Frank Laboratory of Neutron Physics have developed a new position-sensitive gas detector of thermal and cold neutrons. This detector is designed to be used at different facilities applying the neutron scattering method to study the structure of condensed matter.

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Conferences

Solidarity of countries is crucial for science development. Grigory Trubnikov at Future Technologies Forum

JINR Director RAS Academician Grigory Trubnikov participated in the "Computing and Communication. The Quantum World" discussion session of the Future Technologies Forum on 13 July. Participants discussed Russia's technological development strategies, the country's place in the international scientific arena in modern geopolitical circumstances, as well as the role of international cooperation in science.

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Meeting on problems in nuclear and particle physics took place in South Korea

From 9 to 15 July, the 14th Meeting "Modern Problems in Nuclear and Particle Physics" was held in Pohang. About 50 specialists from Japan, JINR, Kazakhstan, Moldova, Republic of Korea, and Russia discussed the issues of nuclear and particle physics.

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Lipnya-2023 Youth Conference. New formats and succession of scientific generations

On 14 - 16 July, a three-day School for Young Scientists and Specialists was held on Lipnya Island. This year, the School is exploring new formats: Science Speed Dating team building for the participants to get to know each other and share their work experiences, as well as a discussion lecture with the FLNP JINR chief researcher.



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JINR hosts Physics Workshop at Summer School

From 6 July to 7 August, the 20th Summer School is taking place at the Volga Recreation Centre of JINR. Among 23 workshops of the School, there is an Element 105 Workshop organized by JINR employees. Its participants are listening to lectures by JINR researchers on the studies in the fields of nuclear physics and high energy physics.

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International Conference GRID'2023 finished in Dubna

On 3-7 July, the 10th anniversary international Conference "Distributed Computing and Grid Technologies in Science and Education" (GRID'2023) was held at the Meshcheryakov Laboratory of Information Technologies JINR. More than 280 scientists took part in the Conference. In total, 30 plenary and over 135 sessional talks were delivered within the Conference.



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Education

Summer School "Dialogue-2023", organized with JINR support, started

The Summer School "Dialogue" began on 18 July. During 15 days, students of Dubna and other cities will develop research projects, as well as participate in educational and sporting events.

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Summer School "Physics. Mathematics. IT" began

60 schoolchildren from 26 cities of Russia will have a unique opportunity to communicate with university teachers, scientists, engineers, and specialists in the field of information technologies. Participants will visit JINR laboratories and the NICA Collider.



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Announcements

Call for applications for Vyzov Russian National Award started

The competition is held in 4 nominations: Perspective, Engineering Solution, Scientist of the Year, and Breakthrough. The Award is given for scientific achievements in the fields of science and future technologies. The winner of each nomination will receive 10 million rubles.



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Publications

New issue of Particles & Nuclei

A new issue of the review journal Physics of Elementary Particles and Atomic Nuclei #4 has been published. In this eminent journal, review articles examine elementary particle physics, problems of vacuum in quantum field theory, condensed matter problems, symmetries in physics, etc.

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TESLA-type superconducting accelerator niobium resonators for electrons and positrons

We offer to your attention a preprint "TESLA-type superconducting accelerator niobium resonators for electrons and positrons" P9-2023-9 issued by the JINR Publishing Department.

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Recalling founders

Bruno Pontecorvo

22 August marks the 110th anniversary of the birth of Bruno Pontecorvo, an outstanding Italian and Soviet scientist who worked at JINR. The DLNP Group of Scientific Communication has prepared a series of publications on Pontecorvo's biography. In this article, you will learn about the time when Bruno Pontecorvo was engaged in the implementation of a method of oil and gas exploration, the neutron logging.



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Media

Element 105 Workshop at Summer School: discussing physics on the Volga bank

Please watch a video about the Element 105 Workshop, which is taking place at the Volga Recreation Centre of JINR.



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DLNP seminar record

We invite you to watch a record of the seminar "Review of accelerator experiments on the study of neutrino oscillations in Japan: from T2K to Hyper-Kamiokande" by Boris Popov.

WATCH -

JINR Weekly Newspaper issued

A new issue of the JINR Weekly Newspaper #27 has been published.

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Upcoming Events

Conferences

 <u>23 – 28 July</u>, International School "Advanced Methods of Modern Theoretical Physics: Integrable and Stochastic Systems". JINR, Dubna

Seminars

- 21 July, 12:30 PM. BLTP. "Finite-time thermodynamic geometry with applications to holographic models" by Tsvetan Vetsov
- <u>24 July</u>, <u>11:00 AM. BLTP.</u> "Gravitational waves with extraordinarily long wavelengths of background noise have been observed by astronomers!" by Chitta Ranjan Das
- **25 July**, 3:00 PM. MLIT. "Manifestation of the hexatic phase in confined two-dimensional systems with circular symmetry" by Eduard Nikonov

Culture

- 20 July, 7:00 PM. JINR Universal Public Library. Book club "Summer Reading List": discussing a novel "Good Omens" by Terry Pratchett and Neil Gaiman
- 21 July, 6:00 PM. JINR Universal Public Library. English speaking club
- 21 July, 6:30 PM. JINR Universal Public Library. Dubna intellectual games' club
- **23 July**, 2:00 PM. JINR Universal Public Library. Lecture "Brain in terms of science"

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Sports

• **<u>23 July, 11:00 AM. JINR Stadium "Nauka". Chess tournament</u>**

ALL JINR EVENTS →

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