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<u>Directorate information</u> SCIENCE BRINGS NATIONS TOGETHER

<u>News</u>

Dear colleagues and friends,

This week, JINR has celebrated the 110th anniversary of the birth of Bruno Pontecorvo. By this date, the Institute has published a number of materials about this outstanding Italian and Soviet physicist. Two exhibition have been opened at the JINR Cultural Centre "Mir" and the JINR Administrative building. A brochure has been published with the memoirs of Vladimir Komarov, a colleague of the famous physicist. Yuri Oganessian and Mikhail Sapozhnikov shared their memories of "Mr.

JOINT INSTITUTE FOR NUCLEAR RESEARCH

JINR Newsletter #33, 24 August 2023

Neutrino" on Russian TV. We would like to show you overviews of major tasks solved in JINR flagship projects, and recently published JINR preprints. A new issue of the project bulletin will tell you about the latest news of the NICA Megascience Project.

JINR Press Office

Events



Telegram

In 2022, a team of VBLHEP employees was awarded the JINR First Prize for a

cycle of work on the NICA Accelerator Complex. The cycle contains more than 30 scientific articles on the development of methods of beam injection into the Booster and the Nuclotron, the creation of beam transportation channels,

READ MORE → Govorun Supercomputer, actively developing platform for scientific computing According to the results of last year, the 2022 JINR First Prize in the Applied Physics Research competition was awarded to the team of authors for the cycle

of works "Hyperconverged Govorun Supercomputer for the implementation of the JINR scientific programme". Head of the Heterogeneous Computing and

runs

commissioning, etc.

work.

Суперкомпьютер имени Н.Н. Говоруна ЛИТ ОИЯИ **READ MORE** →

Quantum Informatics Sector of MLIT JINR Dmitry Podgayny spoke about their



Cooperation

JINR Director RAS Academician Grigory Trubnikov has received a personal

Visit of delegation from Obninsk Institute for Nuclear Power Engineering

Institute's existence since its foundation, is actively expanding now.

commendation from President of the Republic of Uzbekistan Shavkat Mirziyoyev. Cooperation between JINR and Uzbekistan, which has lasted all the years of the

Strong ties with JINR Member States: Uzbekistan

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Celebrating 110th anniversary of Bruno Pontecorvo

Representatives of the Obninsk Institute for Nuclear Power Engineering arrived in Dubna. They discussed the development of cooperation with leaders of Dubna University and also visited the Laboratory of Nuclear Reactions and the Dubna

22 August marks the 110th anniversary of the birth of one of the JINR founders Bruno Pontecorvo. He was the first in the world to put forward the idea of neutrino oscillations, gave the world a method of oil and gas exploration, the neutron logging, and co-authored the discovery of the neutron deceleration effect.

938,213: 0,01

1318,4 = 1,2

On 110th anniversary of birth of Bruno Pontecorvo

READ MORE → **Exhibition dedicated to Bruno Pontecorvo opened in Dubna** On 22 August, an exhibition "Bruno Maksimovich" opened at the JINR Cultural

Centre "Mir". It is dedicated to the 110th anniversary of the birth of an outstanding Italian and Soviet physicist Bruno Pontecorvo. The exhibition presents friendly caricatures by Mikhail Bilenky, photos of different years by Yuri Tumanov, and

READ MORE →

We kindly invite you to watch a video about an exhibition "Bruno Maksimovich" dedicated to the 110th anniversary of a great scientist. WATCH →

Video about Bruno Maksimovich exhibition

Coverage about Bruno Pontecorvo

21st Lomonosov Conference started

documents from the scientist's memorial office.

anniversary of a great physicist on 22 August. WATCH →

Conferences

The event is taking place at the MSU Faculty of Physics. It is dedicated to the 90th

Academician Yuri Oganessian and Mikhail Sapozhnikov, the author of the Bruno Pontecorvo's biography, have recalled an extraordinary, bright, and interesting life of the legend of the world of physics. You can hear their stories in the Calendar programme by the Public Television of Russia TV channel, released for the

anniversary of the MSU Faculty of Physics, the 270th anniversary of MSU, and the 300th anniversary of the Russian Academy of Sciences. As part of the scientific programme of the Conference, the 15th International School on Neutrino Physics and Astrophysics will be held, dedicated to the 110th anniversary of the birth of Bruno Pontecorvo. JINR scientists will deliver 26 reports at the Conference.

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charts, and conduct analytics.

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Fresh NICA Bulletin

Rikhvitsky (MLIT JINR).

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correct its readings

READ MORE →

Yuri Nikitenko.

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for the accelerator complex development, etc.

Doors of Yandex Lyceum open again On 14 August, enrolment started for a new academic year for a Python programming course of the Yandex Academy Lyceum at Dubna Lyceum No.6 named after Academician G. N. Flerov. The training programme is suitable for

pupils and students of colleges and technical schools. As a result, participants will learn the fundamentals of Python and learn how to make forecasts, build

Publications

The tenth issue of the NICA Bulletin has been published reviewing the progress of the implementation of the JINR flagship international project "NICA Complex". The headlines of the new issue: bringing milestones into step, results of the 58th Meeting of the Programme Advisory Committee for Particle Physics, prospects

Education

Veksler and Baldin Laboratory of High Energy Physics Joint Institute for Nuclear Research **READ MORE** → Kinematic fitting in restored film information processing (FIP) in pictures from bubble chambers

The JINR Publishing Department has issued a preprint "Kinematic fitting in the restored film information processing (FIP) in pictures from bubble chambers" P10-2023-21. The authors are Alexander Belyaev (VBLHEP JINR) and Victor

Research of response of neutron dosimeter DVGN-01 in field of DC-280 to

We offer to your attention a preprint "Experimental research of the response of the albedo individual neutron dosimeter DVGN-01 in the field of the accelerator DC-280 to correct its readings" P16-2023-24 issued by the JINR Publishing

neutrons" P13-2023-28 issued by the JINR Publishing Department. The author is

Recalling founders

Leopold Infeld, world-class theoretical physicist and peace fighter

creator of the school of theoretical physics in Poland.

Filming about study of fossilised microorganisms

JINR scientist at All-Russian School-Seminar

in the Orgueil meteorite.

READ MORE →

their impressions.

WATCH →

SCIENCE THROUGH THE LOOKING **GLASS EXHIBITION** ON VOLGA EMBANKMENT

JINR Weekly Newspaper issued

Physics. MSU, Moscow

READ MORE →

20 August marks the 125th anniversary of the birth of a famous theoretical physicist, one of the JINR founders Leopold Infeld (1898 – 1968). He was an Academician of the Polish Academy of Sciences and some foreign academies,

Accumulator of cold and very cold neutrons We would like to offer you one more preprint "Accumulator of cold and very cold

Department. The authors are Yuri Mokrov et al.

READ MORE →

Media

On 22 August, LRB hosted the filming of a documentary project on cosmobiology

Ryumin told journalists about the study of fossilised microorganisms discovered

for the Science 2.0 TV channel. JINR scientists Mikhail Kapralov and Anton

Seminar "Centre for the Study of Supercomputer Architectures". You can watch a record of his presentation starting from 7:22:28. WATCH → New podcast by RIA Novosti with JINR scientist How do scientists look for "mysterious" dark matter particles? Why would there not only be no people without dark matter, but also no universe as we observe it? A BLTP staff member Anton Baushev answered these and other questions in a new episode of the popular science podcast "We will all die. But we are not sure". LISTEN →

19 August marks World Photography Day. This is a good reason to recall the Science Through the Looking Glass exhibition on the Mendeleev Embankment. Visitors could look into the scientific world of the Joint Institute and see how scientists work. Citizens, exhibition's organizers, and JINR employees have shared

Video about Science Through the Looking Glass exhibition

On 21 August, MLIT Scientific Leader Vladimir Korenkov delivered a report "JINR Multifunctional Information and Computing Complex" at the I All-Russian School-

Video about past week JINR events We offer you to watch a video review of recent events from the life of the Institute and Dubna. WATCH →

• 24 - 30 August, 21st Lomonosov Conference on Elementary Particle

Upcoming Events

• 27 August – 3 September, XV International School-Conference "Actual

A new issue of the JINR Weekly Newspaper #31 has been published. Please note that you can read an English version on the JINR Newspaper's website.

28 - 29 August, The use of new methods for processing data of a physical experiment. Application of machine learning methods on the NICA Complex. St. Petersburg

Problems of Microworld Physics". Minsk, Belarus

Seminars

Culture

- 24 August, 4:00 PM. BLTP. "Collinear logarithms and IBP reduction in parametric representation" by Roman Li 28 August, 11:00 AM. BLTP. "Exploring QCD matter in extreme
 - conditions with Machine Learning" by Chitta Ranjan Das 31 August, 3:00 PM. BLTP. "Antiworlds and primordial black holes" by

JINR Cultural Centre "Mir". Exhibition "Bruno Maksimovich" dedicated to

110th anniversary of Academician Bruno Pontecorvo

- <u>Alexander Dolgov</u> 22 August — 3 September, daily from 1:00 to 7:00 PM, except Mondays.
- games' club

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