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SCIENCE BRINGS NATIONS TOGETHER

JINR Newsletter #32, 17 August 2023

JOINT INSTITUTE FOR NUCLEAR RESEARCH

Dear colleagues and friends,

One of the main priorities of the Joint Institute is the development of a partner network with scientific organizations of the world. In Vietnam, the expansion of JINR's participation in the creation of the scientific infrastructure of this country has been discussed recently. Russian partners are building new connections in staff training in the field of hydrogen energy and IT.

You can find the development of durable cement for radioactive waste storage, the study of magnetic properties of heterostructures, successes in the NA64 experiment, a new liquid scintillator among the scientific topics of this issue of the JINR Newsletter.

And certainly, the Institute is actively preparing to celebrate the 110th anniversary of the birth of Bruno Pontecorvo next week.

JINR Press Office



JINR scientists at 15th VINANST International Conference in Vietnam

On 9 - 11 August, in Nha Trang, Vietnam, the JINR delegation took part in the 15th Vietnam Conference on Nuclear Science and Technology (VINANST-15). At

the round table, the parties discussed the results of JINR research and prospects for the development of cooperation between organizations.



radioactive waste storage

most durable cement matrices.

JINR specialists developing and studying compositions of durable cement for

FLNP JINR scientists are developing and studying cement-based materials for radioactive waste storage and recycling. As a result of experiments with the use of neutron radiography and tomography methods, they managed to determine the

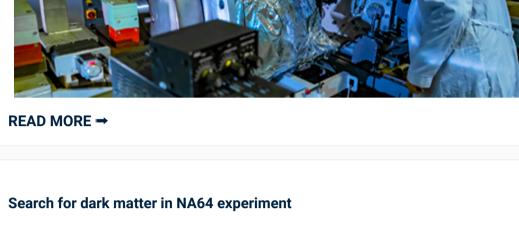
READ MORE → FLNP JINR scientists discovered new magnetic phenomena in

These studies can contribute to the development of spintronics, nanoelectronics, as well as quantum computing. The structures under study consist of thin layers

heterostructures

of several materials, namely ferromagnets and superconductors. The obtained composites have demonstrated unusual properties of magnetic ordering in layered structures.

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Recently, CERN has successfully completed another data collection within the

Scientists have conducted runs at the electron and muon secondary beams of the SPS accelerator. Participants of the collaboration continue to analyse the data

scientific programme to search for dark matter in the NA64 experiment.

and hope to get new interesting results.

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double beta decay

double beta decay.

A group of JINR scientists has developed and patented a tellurium loaded liquid

JINR scientists developed a liquid scintillator to search for neutrinoless

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scintillator with improved characteristics compared to the analogous. Now this scintillator can be used in large-scale experiments to search for neutrinoless

JINR and AFK Sistema agreed to train ten students for master's degree

Ten students of Dubna State University will study for a master's degree for free from September this year. They will improve their skills under the guidance of experienced professionals in the field of hydrogen energy. Their training will be

the result of a lot of work by JINR and the Joint Stock Financial Corporation Sistema to train staff to participate in joint projects.



On 22 August — 3 September, the Bruno Maksimovich exhibition will take place at

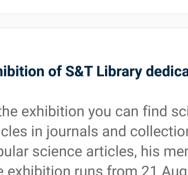
Mikhail Bilenky, photos of different years by Yuri Tumanov, and documents of the memorial office of the scientist. On the exhibition opening day, 22 August, at 6:30 PM, a documentary film "Bruno Pontecorvo" will be shown.

the JINR Cultural Centre "Mir". The exhibition presents friendly caricatures by

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About Bruno Pontecorvo's hobbies

The DLNP Group of Scientific Communication has prepared a series of publications on Pontecorvo's biography. In this article you will learn about the members of the Pontecorvo family, namely his wife and three sons.



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Media

On 16 August, FLNR Scientific Leader Yuri Oganessian and the author of the book

researcher, told the film crew of the Public Television of Russia TV channel about their meeting with the scientist, his scientific work, and life in Dubna. We are waiting for the release of the coverage in the Calendar programme on 22 August.

"Life and ideas of Bruno Pontecorvo" Mikhail Sapozhnikov, a VBLHEP chief

Filming coverage about Bruno Pontecorvo

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New issue of Particles and Nuclei, Letters journal

Closing ceremony of exhibition at Cultural Centre "Mir"

make plans for further creative meetings in Dubna!

The issue of the review journal Particles and Nuclei, Letters journal #4 has been published with results of the original theoretical, experimental, scientific-technical, methodical, and applied research. **READ MORE** →

Announcements

On 20 August, at 4:00 PM, a traditional summer art exhibition by an artist Vlad Kravchuk will be closed in the exhibition hall of the JINR Cultural Centre "Mir". You can meet and talk with the artist, share your impressions about the exhibition, and

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Sports Reconstruction of JINR Sports Club

The reconstruction of the JINR Sports Club is in full swing. Specialists have installed the lighting system. Now they are installing new ventilation, heating,

video surveillance equipment, as well as a fire safety system.

Conferences

Culture

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

Upcoming Events

Physics. MSU, Moscow **Seminars**

neutrinos" by Chitta Ranjan Das • 24 August, 11:00 AM. VBLHEP. "Slow control for MPD TPC LV and HV systems based on CAEN Equipment" by Youmna Ghoniem

21 August, 11:00 AM. BLTP. "The first map of the Milky Way in

17 August, 7:00 PM. JINR Universal Public Library. Summer Reading List book club: discussing a book "Dragon" by Evgeny Schwartz

- 18 August, 6:00 PM. JINR Universal Public Library. English speaking <u>club</u> 18 August, 6:30 PM. JINR Universal Public Library. "Fiction from the
- third desk" club meeting • 18 August, 6:30 PM. JINR Universal Public Library. Dubna intellectual
- games' club
- 22 August 3 September, daily from 1:00 to 7:00 PM, except Mondays. JINR Cultural Centre "Mir". Exhibition "Bruno Maksimovich" dedicated to 110th anniversary of Academician Bruno Pontecorvo
- documentary film "Bruno Pontecorvo" • 22 August, 7:00 PM. JINR Universal Public Library. Genealogical club's meeting

22 August, 6:30 PM. JINR Cultural Centre "Mir". Screening of a

- 24 August, 7:00 PM. JINR Universal Public Library. Hairpin book club
- **Sports**

20 August, 10:00 AM. JINR Nauka Stadium. Table tennis tournament

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