<u>News</u> **Events** For Press

JINR Newsletter #34, 11 September 2024

Tomorrow one of the key events starts at the Institute, the JINR Scientific Council (SC). At the 136th JINR SC session, leading researchers from around the world will discuss

Dear colleagues and friends,

the scientific projects of the Joint Institute. This week was full of news. At the recent ARIADNA Collaboration Meeting, the applied research programme of the NICA Complex was established. JINR Vice-Director Latchesar Kostov received the Russian Order of Friendship. The academic year started

at the Dubna branch of Moscow State University. In the latest issue of the JINR Newsletter, you will also find new articles and JINR publications, interesting videos, and much more.

Telegram @jinrofficial

Governing Bodies 136th session of JINR Scientific Council The session will take place on 12–13 September in a hybrid format. At the meeting, members of the Council will hear a report by JINR Director Grigory Trubnikov,

consider recommendations of the JINR Programme Advisory Committees held in June 2024, and discuss the JINR Topical Plan for 2025.

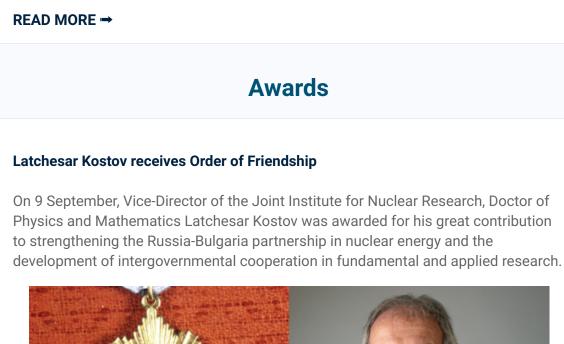
READ MORE →



READ MORE → WATCH →

READ MORE →

Construction progress of NICA Collider building discussed at JINR On 3 September, a delegation representing the general contractor for the construction of the NICA Collider building visited the Joint Institute for Nuclear Research. During the visit, the parties discussed prospects for developing cooperation for the successful and timely completion of construction works.



Impact of swift heavy ion-induced point defects on nanoscale thermal transport

The research <u>published</u> in *Materials Research Bulletin* was conducted by employees of the Laboratory of Nuclear Reactions at JINR and researchers from the scientific centres of Kazakhstan and South Africa. The findings lead to new approaches to

Research

commemorates the outstanding scientist, Academician of the Russian Academy of

XIX International Conference on Symmetry Methods in Physics (SYMPHYS-XIX), organized jointly by JINR and the International Centre for Advanced Studies of

Yerevan State University, is taking place on 8-13 September. The event

Conferences

developing functional materials using heavy ion irradiation.

SYMPHYS-XIX Conference starts in Yerevan

Sciences Alexei N. Sissakian.

READ MORE →

in ZnO

READ MORE →

C in June 2024.

READ MORE →

READ MORE →

READ MORE →

in Dubna

Study of etching features of quartz glass irradiated with xenon ions The article was co-authored by Head of the FLNR JINR Applied Physics Centre Pavel Apel and scientists from the Lebedev Physical Institute (LPI) and the National University of Science and Technology. The results of the work were published in the LPI bulletin.

Production of neutron-enriched isotopes along magic number N = 126 by

The study was carried out by Vyacheslav Saiko and Alexander Karpov, scientists from the Laboratory of Nuclear Reactions at JINR, and <u>published</u> in *Physical Review*

multinucleon transfer reactions with radioactive-ion beams

Burn-in test and thermal performance evaluation of silicon photomultipliers in **TAO Experiment** Journal of Instrumentation issued an <u>article</u> by employees of the Methodical Research Sector of the Laboratory of Nuclear Problems at JINR Nikolay Anfimov and Arseny Rybnikov and Chinese researchers. The team of scientists conducted comprehensive tests of SiPM tiles for the JUNO-TAO Experiment. READ MORE → CRIC Information System to integrate computing centres for processing SPD **NICA data** Researchers from Budker Institute of Nuclear Physics together with JINR employees developed the CRIC (Computing Resource Information Catalog) Information System, one of the key components for building a distributed system for processing

experimental data from the SPD Experiment at the NICA Accelerator Complex.

Education

First-year students start new academic year in Moscow State University branch

For the first time, the MSU branch in Dubna welcomed Master's students. A ceremony to celebrate the beginning of the academic year took place on 9 September with the participation of JINR Director and representatives of MSU

leadership. After the ceremony, the students visited the NICA Complex.

READ MORE → WATCH →

JINR News bulletin #3 2024 issued

nuclear spectroscopy.

Review of Particles & Nuclei, #5 (Vol. 55) 2024

READ MORE →

research.

problems

problems of theoretical physics.

JINR at MEPhI Nuclear Festival

Severiukhin and Mark Shirchenko read lectures.

READ MORE →

Publications

The third issue of the 2024 JINR News bulletin has been published. It provides information on new scientific results obtained at the JINR Laboratories, progress in

> новости оияи JINR NEWS

performance of large-scale experiments, and the JINR social life.

READ MORE → History of nuclear spectroscopy at JINR

The JINR Publishing Department issued a book entitled "Department of Nuclear Spectroscopy and Radiochemistry. 1958-2005: Memories, Documents, and Photos" compiled by Tsvetan Vylov and his colleagues. The collection introduces the reader to the life of several generations of scientists and the department's achievements in

Please enjoy the review of the fifth part of this year's volume of Physics of

About new developments of Newton-type iterations for solving nonlinear

The monograph by MLIT JINR Deputy Director, Academician of the Mongolian

MAS Academician Tugal Zhanlav explores higher-order iterations for nonlinear

Academy of Sciences (MAS) Ochbadrakh Chuluunbaatar and JINR Honorary Doctor,

equations and their systems, their applications in linear algebra, and some nonlinear

Elementary Particles and Atomic Nuclei that publishes the articles with results of the original theoretical, experimental, scientific and technical, methodical, and applied

New Developments of Newton-Type **Iterations** for Solving Nonlinear Problems READ MORE → On numerical methods for solving partial differential equations Springer published the monograph on high-order finite difference and finite element methods for solving some partial differential equations by MLIT JINR scientists and their Mongolian colleagues. The monograph was released in the book series titled "Synthesis Lectures on Engineering, Science, and Technology" and is based on the results of collaborative research. READ MORE →

JINR Social

Announcements

Students from 5 to 8 grades can apply on 13 September by filling out a questionnaire and undergoing interview at the School No. 9. Please note that the starting time

will take place on 22 September. Registration is required until18 September via the

Media

Physics and mathematics classes by JINR University Centre

6-8 September marked the second Nuclear Festival, organized by MEPhl in partnership with the Joint Institute, Rosatom, Moscow State University, and Kurchatov Institute. Over 30 JINR employees took part in popular science, engineering, music, and sports activities. LRB and DLNP JINR researchers Iurii

Track and field run in memory of Academician Veksler The 55th annual run in memory of the outstanding Soviet physicist Vladimir Veksler

READ MORE →

READ MORE →

READ MORE →

WATCH →

A day in JINR life

its description.

READ MORE →

READ MORE →

READ MORE →

Governing Bodies

Workshops & Conferences

Video about main JINR events

<u>link</u>.

READ MORE →

depends on the student's age.

READ MORE →

New physics textbooks presented The JINR University Centre hosted a presentation of a new set of physics textbooks for 7th to 9th graders. The team of the book's authors is headed by VBLHEP JINR employee, Doctor of Physics and Mathematics, Professor Yuri Panebrattsev.

Academy of Scientific Research and Technology.

JINR hosts science school for Egyptian schoolchildren

<u>10 – 13 September.</u> 2nd China-Russia Joint Workshop on NICA Facility. Qingdao, China • <u>15–19 September</u>. China-JINR Workshop on Software and Computing for Future HEP Experiments. Listvyanka Village, Russia • <u>15–20 September</u>. 15th International Seminar on Problems of Charged

dependent Schroedinger equation on a non-uniform coordinate grid" by **Maxim Zakharov** Culture

List book club

- **Moscow Virtuosos Orchestra** 14 September, from 2:00 PM to 7:00 PM. Ratmino Resort Hotel. Back to Office Picnic
- 12 September, 7:00 PM. JINR Mir Cultural Centre. Comedy play 13 September, 6:00 PM. JINR Universal Public Library. English speaking club 13 September, 7:00 PM. JINR Scientists' Club. Concert by soloists of

considered the founding date of DLNP at JINR. If you haven't yet seen the series of articles about the history of this unique facility and the laboratory's discoveries and researchers, please enjoy reading it. В декабре 2024 года

Лаборатории ядерных

исполняется 75 лет

проблем ОИЯИ

Please enjoy a short video about the educational course taking place at the Joint Institute with the participation of students of the Children's University of the Egyptian

On 5 September, the JINR Telegram channel published a post featuring an archive photograph with an eminent physicist, Harvard University Professor Norman Foster Ramsey taken exactly 61 year ago, on 5 September 1963. Please enjoy the photo and

We offer you to watch a video review of highlights from the life of the Institute.

Upcoming Events

• 12-13 September. 136th session of the JINR Scientific Council. JINR

8 – 14 September. 19th International conference titled "Symmetry.

• 9 – 13 September. Science School for Students of the Children's University of the Egyptian Academy of Scientific Research and Technology. JINR,

methods in physics" (SYMPHYS-XIX). Yerevan, Armenia

14 December 1949, the launch day of the world's largest synchrocyclotron, is

Series of articles to mark DLNP JINR anniversary

JINR Weekly Newspaper issued A new issue of the JINR Weekly Newspaper #34 has been published. Please note that you can read an English version on the JINR Newspaper's website.

International Conference Centre, Dubna

Particle Accelerators in memory of Professor Vladislav Sarantsev. Dubna Resort Hotel, Crimea **Seminars**

• 3-29 September. Daily from 1:00 to 7:00 PM (except Monday). JINR Mir Cultural Centre. Antigravity exhibition of watercolour landscapes 12 September, 7:00 PM. JINR Universal Public Library. Summer Reading

ALL JINR EVENTS → © Joint Institute for Nuclear Research Joliot-Curie str 6, Dubna, Moscow region, Russia, 141980

press@jinr.int

16 September, 6:00 PM. JINR Universal Public Library. Origins of Nanomaterials Lecture 18 September, 7:00 PM. JINR Mir Cultural Centre. "Classics are fashionable" fashion show and discussing club for teenagers

For Kids

12 September, 11:00 AM. VBLHEP. "KRION-N, electron string ion source for NICA Accelerator Complex" by Alexander Ramzdorf and "Development of Nuclotron and Booster power systems" by Alexander Shurygin 16 September, 11:00 AM. BLTP Journal Club. "Separation of Inverse Altermagnetic Spin-Splitting Effect from Inverse Spin Hall Effect in RuO2" by Kaushal Kumar Kesharpu 17 September, 11:00 AM. BLTP. "Spectral method for solving a time-

13 September, 6:00 PM. JINR Universal Public Library. Meeting of book 14 September, 5:00 PM. JINR Universal Public Library. "Let's READers"