

SCIENCE BRINGS NATIONS TOGETHER



JOINT INSTITUTE FOR NUCLEAR RESEARCH

JINR Newsletter #14, 30 June 2022

Dear colleagues and friends,

On Monday, a large-scale scientific event "Meeting on Heavy Ion Physics" will start in St. Petersburg. The event serves as a thematic RAS Council meeting. It will be a great opportunity for FLNR JINR to celebrate its 65th anniversary.

Another festive event is the 10th anniversary of the Higgs boson discovery that was made with a considerable contribution of JINR scientists. We are preparing several publications, so stay tuned.

On 3 July, the Institute will celebrate the national holiday of a JINR Member State - the Independence Day of the Republic of Belarus.

In the new issue of the JINR Newsletter, you will learn about new activities of JINR in science and education, the Institute's Annual Report, a new topic of the AYSS seminar, and listen to a new podcast. Enjoy the new issue of the JINR Newsletter!

JINR Press Office



Breaking News

JINR-Mongolia cooperation enhancement and governmental awards

On 27 June, JINR hosted a visit of the delegation of the Embassy of Mongolia to the Russian Federation. Representatives of the Mongolian diplomatic mission discussed with the Institute's leaders prospects for the Mongolia-JINR cooperation development, got acquainted with the JINR scientific infrastructure, as well as presented awards of the Mongolian Government to two employees of the Joint Institute.



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Announcements

Meeting of RAS Council on Heavy Ion Physics in Saint Petersburg

The meeting on Heavy Ion Physics will be held from 4 to 8 July in Saint Petersburg. The event is organised as a thematic meeting of the RAS Council. Results of research under a grant from the Ministry of Science and Higher Education of the Russian Federation, work on the project of cooperation between Rosatom institutes and JINR will be discussed. The presentation of the Award of G. N. Flerov will be a special part of the programme.



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JINR Information Centres

JINR takes part in Arctic Floating University

On 24 June, on behalf of JINR, Marina Frontasyeva and Nikita Yushin (FLNP) went to the expedition of the Arctic Floating University with the support of the Russian Geographical Society. The JINR researchers will collect samples of mosses, soils, and plankton of the Arctic to assess the quality of ecology in the region. The Joint Institute has become a participant of this programme as a result of its cooperation with the Northern (Arctic) Federal University. The JINR Information Centre was opened at the University in March this year.



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Research

Commissioning of LEGEND experiment at Gran Sasso Laboratory

Despite objective difficulties, DLNP JINR scientists took a decisive part in the installation of the first 60 kg of detectors of enriched Ge-76 in the LEGEND setup located at the Gran Sasso National Laboratory (Italy). In addition to the direct assembling of detector strings, our specialists fabricated high-purity nylon mini-shrouds used to reduce the radioactive background of the experiment and for the first time performed the installation of the complete liquid argon instrumentation, developed and created by a joint team of scientists from JINR and the Technical University of Munich.



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New materials for spintronics and nanoelectronics being studied at JINR

Scientists of FLNP JINR in cooperation with scientific centres of Vietnam, carried out studies of unusual types of functional materials that belong to so-called geometrically frustrated magnetic materials. This is important not only for the development of modern concepts in the fields of condensed matter physics, but also for the development of an advanced generation of spintronics, nanoelectronics, recording and storage of information.

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JINR contribution to implementation of DUNE experiment

The DUNE neutrino experiment in the USA continues along the path of its implementation: a preliminary review of the project, the so-called Preliminary Design Review (PDR), has been conducted. Staff members of the Laboratory of Nuclear Problems JINR are responsible for the development of one of its elements: the light readout system.

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Publications

JINR Annual Report 2021

The JINR Annual Report 2021 was published. As of 1 January 2022, the total number of the staff members at the Joint Institute for Nuclear Research was 5,203. The total number of JINR publications (by Web of Science Database as of 27.01.2022) was 1,108. 11 patents were registered authored by JINR scientists. Read more about activities and results of the Institute's work over the past year.

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Education

JINR at educational forum "Nanograd"

JINR took part in the traditional forum "Nanograd", which was held this year in Saint Petersburg. The forum is designed for developing the project and research culture of schoolchildren in a high-tech society and held in the frames of the early career guidance programme for schoolchildren "School league".



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JINR Department at MIPT invites to master's and postgraduate studies!

JINR-based department of Fundamental and Applied Problems of Microworld Physics in Moscow Institute of Physics and Technology has announced the enrollment of students for master's and postgraduate studies. What JINR research projects will students of the department be able to participate in? Where will they work later?

READ about it on the JINR website →

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And also WATCH the presentation →

Third enrollment of School "Data Science"

On 24 June, a presentation of advanced training certificates to graduates of the third enrollment of the International IT School "Data Science" of the University "Dubna" took place. This year, the IT School has graduated students for the third time.

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People of JINR

New AYSS seminar: Space radiobiology

On 30 June, at the AYSS seminar in the JINR Scientists' Club, Yuri Severyukhin (LRB) will make a presentation "Space Radiobiology: from the Eiffel Tower to the charged particle accelerator". Yuri will talk about the discovery of ionizing radiation in space, research on the effects of charged particles on the brain and behaviour. He will touch upon the issues of radiation safety of space flights.



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JINR Cinema Club

This Saturday, 2 July, you can enjoy watching the interesting film “Arizona Dream” by Emir Kusturica in the company of cinemaphiles who have brought back to life the beloved JINR Cinema Club.

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Media

Research by LRB JINR in Radio Sputnik podcast

Anton Ryumin, LRB, speaks about the study of the Orgueil meteorite. He carries out this study together with colleagues under the leadership of Academician Alexey Rozanov, who is considered to be one of the founding fathers of bacterial palaeontology. According to Anton, the meteorite is full of fossils of bacteria and algae.



LISTEN ➡

JINR Weekly Newspaper issued

New issue of the JINR Weekly Newspaper #24 has been published. Please note that you can read an English version on the JINR Newspaper's website.

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Upcoming Events

Conferences

- [29 June – 1 July 2022, 4th International summer school “Computer technologies for scientific and applied tasks – CTST.2022”. North Ossetian State University, Vladikavkaz, Russia.](#)
- [3 – 18 July 2022, 34th Summer International Computer School \(ICS-2022\). Resort Hotel “Ratmino”, Dubna.](#)
- [4 – 8 July 2022, Meeting of the RAS Council on Heavy Ion Physics. Saint Petersburg, Russia.](#)
- [6 – 8 July 2022, 6th International Workshop on Deep Learning Computational Physics \(DLCP-2022\). Meshcheryakov Laboratory of Information Technologies JINR, Dubna.](#)

Seminars

- [30 June 2022, at 4:00 PM, JINR Scientists' Club. AYSS seminar series: “Space Radiobiology: from the Eiffel Tower to the charged particle](#)

[accelerator” by Yuri Severyukhin](#)

- [30 June 2022](#), at 11:00 AM, FLNP. “On the possibility of creating a UCN source at a periodic pulsed reactor II” by A. I. Frank
- [4 July 2022](#), at 11:00 AM, BLTP, Blokhintsev Conference Hall (4th floor), BLTP Journal Club
- [5 July 2022](#), at 11:00 AM, BLTP. “Effects of supernovae dynamo in spectra of neutrinos and in r-process” by Vladimir Kondratyev
- [5 July 2022](#), at 2:30 PM, BLTP. “Geometric approach to the theory of photon manifolds in gravitational fields” by Kirill Kobayko
- [5 July 2022](#), at 4:00 PM, BLTP. “Spinful hard-core bosons on a ring: a promising two-level system” by Kaushal Kumar Kesharpu

Dissertation Councils

- [30 June 2022](#), at 2:00 PM, BLTP. Defense of the dissertation “Radiation corrections for experiments on lepton colliders with polarized beams” by Vitaly Yermolchuk and “Polarization effects in e^+e^- annihilation processes at high energies” by Yahor Dydyska
- [4 July 2022](#), at 3:00 PM, FLNP. Defense of the Ph.D. thesis “Methods for measuring the characteristics of delayed neutrons and verifying nuclear data” by Gremyachkin D.E.

Culture

- [30 June 2022](#), at 7:00 PM. JINR Universal Public Library. Meeting of the book club “Hairpin”: discussing the book “Medea and her children” by Lyudmila Ulitskaya
- [30 June 2022](#), at 7:00 PM. JINR Cultural Centre “Mir”. Concert of music band “Gorod 312”
- [2 July 2022](#), at 6:00 PM. JINR Scientists’ Club. Cinema Club

ALL JINR EVENTS ➡

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