



JINR Newsletter #25, 15 September 2022

Dear colleagues and friends,

A meeting of the JINR Committee of Plenipotentiaries in Egypt, one of the main events of the year, is scheduled for November. In preparation for the session, a meeting was held with the Minister of Higher Education and Scientific Research of Egypt. Meanwhile, JINR is hosting the School for talented Egyptian students who have passed a competitive selection to visit the Joint Institute.

Ambitious scientific projects of the Institute continue to develop. These days, VBLHEP JINR is holding a regular meeting of the BM@N Experiment Collaboration. Earlier, representatives of high-tech companies discussed the production of high-purity germanium, which is crucial for the creation of detectors. In addition, this Saturday, AYSS is organizing an informal Back to Office! outdoor event.

In the new issue of the JINR Newsletter, you will read about the development of applied research at the NICA complex, interviews with young and honoured JINR scientists, secrets of staying healthy and beautiful thanks to JINR infrastructure facilities, and much more.

JINR Press Office



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Meetings

Meeting with Minister of Higher Education and Scientific Research of Egypt

On 1 September, in Cairo, as part of the events dedicated to the preparation for the visiting sessions of the JINR Finance Committee and the Committee of Plenipotentiaries, Dmitry Kamanin, Head of the International Cooperation Department, met with Professor Mohamed Ayman Ashour, Minister of Higher Education and Scientific Research of the Arab Republic of Egypt.



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Start of 9th BM@N Collaboration Meeting

On 13 September, the 9th Collaboration Meeting of the BM@N experiment started at the Laboratory of High Energy Physics JINR. Participants of the BM@N collaboration will discuss plans for the next experimental runs and review the status of data analysis of strange particle and nucleus fragment production in carbon and argon beams.

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Partnership

Production of high-purity germanium discussed at JINR

At the end of August, the Joint Institute for Nuclear Research hosted a meeting of representatives of the Rosatom State Corporation, RASU JSC, Germanium JSC, Germanium and Applications LLC, Science and Innovation JSC, Giredmet JSC, Tver State University. The parties discussed the development of production of the high-purity germanium (HPG) and cooperation in this area.



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Unique isotopes for JINR

Isotope – Regional Alliance has delivered unique samples of Zr-96 isotopes to JINR. Isotope Zr-96 will be used for physical research, especially for neutrino properties research.

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Research

JINR develops projects on applied research at NICA complex

JINR creates a unique infrastructure for applied research using heavy ion beams at the NICA Accelerator Complex. Oleg Belov, a representative of the Department of Scientific and Methodological Research and Innovation of the Veksler and Baldin Laboratory of High Energy Physics JINR, commented on state of the art in this area.



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In-depth modeling of beam dynamics in NICA collider on the eve of commissioning

Analytical and numerical calculations of beam dynamics in the NICA Accelerator Complex are carried out in the Veksler and Baldin Laboratory of High Energy Physics JINR. Most of these calculations are about the study of the heavy ion beam motion in the NICA Complex Collider under construction. Analysis of the dynamics of the heavy ion beam is necessary to determine the required settings and optimal operating modes of various systems of all the facilities and channels of beam transportation of the Accelerator Complex.

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Education

Students from Egypt at JINR

On 12 September, the Science School for Students of the Children's University of the Egyptian Academy of Scientific Research and Technology started. School students are getting acquainted with JINR, its research and will get a chance not only to master theory, but also to get straight to work with a real physical facility.



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Announcements

Picnic in Ratmino. "Back to Office"

The Back to Office! picnic organized by AYSS for young JINR employees and their families will be held on 17 September from 2:00 to 7:00 PM. There will be sports games, music, and barbeque. You can bring your own food, drinks, board games, and musical instruments.



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What to read?

We offer you a new book exhibition in the Science and Technology Library of JINR.

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People

AYSS invites to a new seminar

On 15 September, Andrey Tamonov will make a presentation “Beautiful and healthy people. Become one of them! ...and how the SIM Office can help with this”.

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Yuri Oganessianan, “We need to finish the job we've started”

One of the most famous academicians, the discoverer of several elements of the Mendeleev Periodic Table, FLNR Scientific Leader Yuri Oganessian shared his vision of the results of the RAS work over the past five years and its future prospects.



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What unites SOCHI, ISCRA, and SIMBO?

Sergey Merts, a leading researcher of the Laboratory of High Energy Physics JINR, spoke about the progress of the work on the NICA collider and what contribution this project would be able to make to the development of fundamental science and technology.

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Publications

New issue of “Particles and Nuclei, Letters”

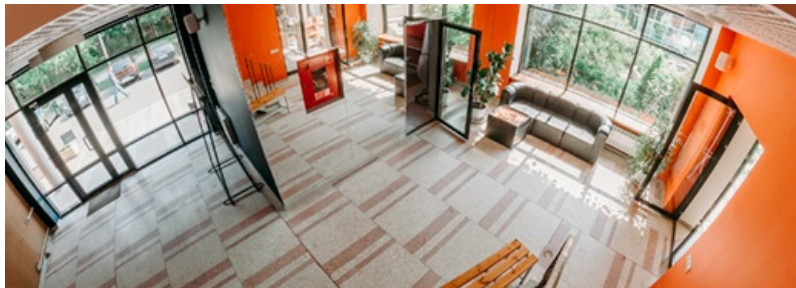
The fifth issue of the journal “Particles and Nuclei, Letters” #5 has been published with results of the original theoretical, experimental, scientific-technical, methodical, and applied research.

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JINR Infrastructure

“Blokhinka” renovation

Do you know that the JINR Universal Public Library is under renovation? You can follow changes and improvements of the library building on VK using the hashtag [#блехинка_ремонт](#)



Sports infrastructure facilities

Read about how the sports infrastructure facilities of the Institute are being developed and improved.

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Media

One more golden lecture

The JINR partner “Summer School” has published a golden lecture from the Element 105 Physics Workshop, which was delivered by Valery Shvetsov, Director of the Laboratory of Neutron Physics JINR. His lecture was about nuclear planetology. What is it and what knowledge can it bring us?

WATCH ➞

Documentary about Bruno Pontecorvo

Culture TV channel has issued a documentary about Bruno Pontecorvo. “Everything he did in Dubna was fantastic. He stood at the origins of modern nuclear physics.”



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JINR Weekly Newspaper issued

New issue of the JINR Weekly Newspaper #35 has been published. Please note that you can read an English version on the JINR Newspaper’s website.

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Sports

Sports time!

There is a football team at JINR. Its director comments on training sessions, members of the team, and competitions.



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Upcoming Events

Conferences

- [12 – 16 September 2022](#), Science School for Students of the Children's University of the Egyptian Academy of Scientific Research and Technology. JINR Laboratories, Dubna
- [13 – 16 September 2022](#), 9th Collaboration Meeting of the BM@N Experiment at the NICA Facility. VBLHEP JINR, Dubna
- [19 – 23 September 2022](#), JINR Training Programme "JINR Expertise for Member States and Partner Countries" (JEMS-21). JINR Laboratories, Dubna
- [20 – 22 September 2022](#), Seminar "Selected problems in quantum field theory", dedicated to the memory of Prof. E. A. Kuraev. BLTP JINR
- [20 – 25 September 2022](#), XIV International scientific workshop in memory of Professor V. P. Sarantsev "Problems of colliders and charged particle accelerators. Applied researches on accelerators". Resort Hotel "Dubna", Alushta, Crimea

Seminars

- [15 September 2022](#), at 4:00 PM, BLTP. "Small-x dynamics and TMD PDFs" by Nahid Vasim
- [15 September 2022](#), at 4:00 PM, JINR Scientists' Club. AYSS seminar series: "Beautiful and healthy people. Become one of them! ...and how the SIM Office can help with this" by Andrey Tamonov
- [19 September 2022](#), at 11:00 AM, BLTP, Blokhintsev Conference Hall (4th floor). BLTP Journal Club: "A black hole's orbiting ring of light could encrypt its inner secrets!" by Chitta Ranjan Das
- [19 September 2022](#), at 3:30 PM, BLTP. "Cluster effects in nuclear fission" by Ivan Rogov
- [20 September 2022](#), at 11:00 AM, BLTP. "Investigation of the evolution of quadrupole and octupole deformations of atomic nuclei within the framework of a geometric collective model" by Evgenii Mardyban
- [20 September 2022](#), at 11:00 AM, DLNP. "Development and application of Micromegas detectors in experiments with JINR participation (ATLAS, NICA)" by Uladzimir Kruchonak
- [20 September 2022](#), at 3:00 PM, MLIT. "Quantum intelligent control and quantum software engineering in robotics of JINR projects" by Sergey Ulyanov
- [20 September 2022](#), at 4:00 PM, BLTP. "Influence of an external periodic signal on the dynamics of a nanomagnet system associated with a Josephson junction" by Kirill Kulikov

Culture

- [15 – 16 September 2022](#), at 7:00 PM. JINR Cultural Centre “Mir”. Jazz festival “MuzEnergo”
- [17 September 2022](#), at 2:00 PM. JINR Universal Public Library. “MuzEnergo” events
- [17 September 2022](#), at 2:00 PM. Resort Hotel “Ratmino”. Picnic on the territory of the Resort Hotel “Ratmino”
- [18 September 2022](#), at 2:00 PM. JINR Cultural Centre “Mir”. Performance “Kid and Carlson”
- [19 September 2022](#), at 2:00 PM. JINR Cultural Centre “Mir”. Trio of Bolshoi Theatre soloists

ALL JINR EVENTS ➡

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