

SCIENCE BRINGS NATIONS TOGETHER



JOINT INSTITUTE FOR NUCLEAR RESEARCH

JINR Newsletter #24, 8 September 2022

Dear colleagues and friends,

JINR considers staff training one of its main priorities. During the visit of the delegation of the Russian Ministry of Science and Higher Education to Dubna, further development of education in the science city was discussed with the Institute's participation. In the meantime, with the JINR support, a new academic year started at the Moscow State University Branch in Dubna.

Awarding the title of Honorary Professor of Lomonosov Moscow State University to the outstanding JINR scientist Yuri Oganessian was the highlight of the week. Paying tribute to the memory of the scientific talent of the FLNP JINR founder, another Moscow university MEPhI opened a monument to a Nobel Prize winner Ilya Frank.

September kicked off various activities in the Institute's life. Thus, a new season of AYSS seminars began and JINR Dissertation Councils resumed their work. Bright scientific research of the Joint Institute, from Baikal sponges to proton therapy, and much more are in the new issue of the JINR Newsletter!

JINR Press Office



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Breaking News

Representatives of Russian Ministry of Science and Higher Education saw NICA during visit to Dubna

On 7 September, a delegation of the Ministry of Science and Higher Education of the Russian Federation headed by Deputy Minister Dmitry Afanasyev visited Dubna and JINR. During the visit, guests discussed further development of education in the science city and got acquainted with objects of educational and scientific infrastructure of the State University "Dubna" and the Joint Institute for Nuclear Research.



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Awards

Yuri Oganessian became Honorary Professor of Moscow State University

Yuri Oganessian, a world-famous scientist, FLNR Scientific Leader, RAS Academician, was awarded the high title for outstanding achievements in nuclear physics and the development of Moscow State University.

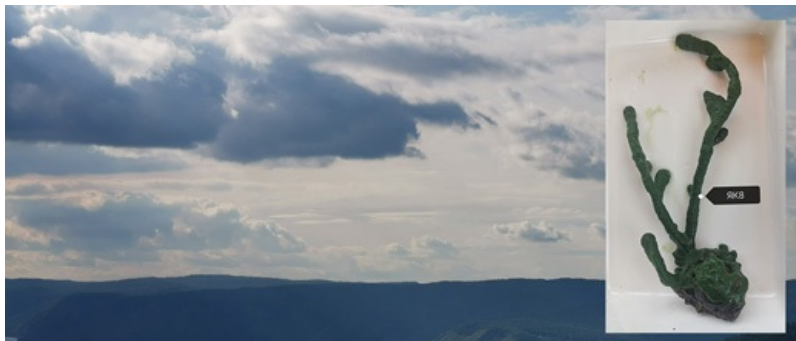


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Research

Baikal sponges as bioindicators of heavy metal pollution in lake

Scientists from the Joint Institute, together with specialists from the Limnological Institute of the SB RAS (LIN SB RAS, Irkutsk) and the University of Bucharest (Romania), studied the elemental composition of Baikal sponges collected from sites with different anthropogenic loads. It turned out that sponges can be successfully used as bioindicators of Lake Baikal pollution by toxic elements.



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MSC-230 will be a breakthrough machine for flash therapy

The proton medical accelerator MSC-230, the implementation of which is planned for 2024, will be the pilot facility of the future JINR innovation centre. Its characteristics make the cyclotron the most promising type of accelerator particularly for flash therapy. Recently, JINR scientists have managed to improve the design of MSC-230.

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Education

New academic year started at MSU Branch in Dubna

On 2 September, as part of the launch of the opened MSU Branch in Dubna, students of the Departments of Elementary Particle Physics (EPP) and Fundamental Nuclear Interactions (FNI) met with their scientific advisors, leaders, and lecturers of the Departments and the branch, as well as representatives of the JINR Directorate.



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Academic degrees

Dissertation submission open

From 1 September 2022, the JINR Dissertation Councils, whose activity was paused in order to re-register for the new nomenclature of scientific specialities, have resumed their work. The submission of dissertations for evaluation and defence is now open.

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People

AYSS invites to a new season of seminars

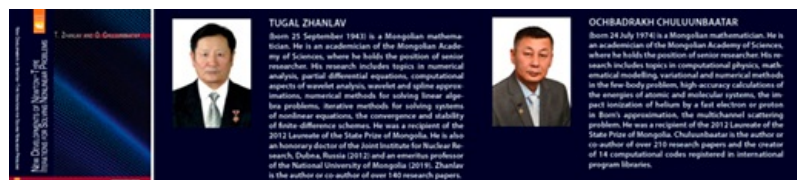
On 8 September, Andrey Pikelner (BLTP senior researcher) will make a presentation “Computer in the hands of a theorist”. Andrey will talk about Feynman diagrams: why are they needed and how to calculate them? He will also answer the questions: how to get a computer to help with calculations and what to do if standard instructions from textbooks are not enough?

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Publications

New developments of Newton-type for solving nonlinear problems

The Kurs publishing house has issued a monograph by MLIT Deputy Director, Academician of the Mongolian Academy of Sciences Ochbadrakh Chuluunbaatar and JINR Honorary Doctor, Academician of the Mongolian Academy of Sciences Tugal Zhanlav. The monograph focuses on “New Developments of Newton-Type Iterations for Solving Nonlinear Problems”.



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New issue of Particles & Nuclei

The fifth issue of the review journal Physics of Elementary Particles and Atomic Nuclei #5 has been published.

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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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Announcements

Submission of applications for membership in JINR Scientists' Club is open

Membership in the JINR Scientists' Club means interesting events, clubs, trips. The completed application form and a photo should be sent to the Directorate of the JINR Scientists' Club or to contact persons. Use +7 (496) 216-22-11, +7 (496) 216-31-89, or scinfo@jinr.ru.

53rd traditional track and field run in memory of Academician V. I. Veksler

The event will take place on 25 September 2022. Registration for the track and field run is open on the [website](#) until 23 September. The race starts from the Archimedes Swimming Pool: at 11:00 AM – 1 km distance; at 11:30 AM – 4 and 8 km distances.



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Track and field cross country

We invite all interested JINR employees to take part in the track and field cross country at the stage of the Dubna City Championship among physical culture teams. The event will take place on 14 September. The number of participants is unlimited. To apply, please call or write +7 (916) 651 72 32 on Whatsapp.

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Remembering founders

Monument to Ilya Frank

On 5 September, MEPhI, a long-standing JINR partner, festively opened in its territory a monument to Ilya Mikhailovich Frank. Ilya Frank was a Nobel Prize winner in physics, founder of FLNP JINR. The monument to the scientist concluded the Alley of MEPhI Nobel Prize Winners.



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Media

Chronograph. Time's witnesses

Interview with Basar Mukhitdinovich Sabirov, a researcher of the DLNP JINR Rare Processes Sector.



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Gold lectures of Summer School

The record of the lecture “How to synthesise superheavy elements” has been published. It was delivered to Summer School participants by Alexander Karpov, Doctor of Physics and Mathematics, Scientific Secretary of the Laboratory of Nuclear Reactions JINR.

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JINR Weekly Newspaper issued

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.

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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](#)

- [13 – 16 September 2022](#), 9th Collaboration Meeting of the BM@N Experiment at the NICA Facility. VBLHEP JINR, Dubna

Seminars

- [8 September 2022](#), at 4:00 PM, JINR Scientists' Club. AYSS seminar series: "Computer in the hands of a theorist" by Andrey Pikelner
- [12 September 2022](#), at 11:00 AM, BLTP, Blokhintsev Conference Hall (4th floor). BLTP Journal Club: "Elliptic Feynman integrals and pure function" by Maxim Bezuglov
- [13 September 2022](#), at 3:00 PM, MLIT. "GEANT4 FTF model description of the NA61/SHINE collaboration data on strange particle production in pp interactions" and "Charmed particle production in Geant4" by V. Uzhinsky
- [14 September 2022](#), at 4:00 PM, BLTP. "Tachyon condensation in a chromomagnetic background field and the groundstate of QCD" by Michael Bordag

Culture

- [24 August - 18 September 2022](#), at 7:00 PM. JINR Cultural Centre "Mir". Art exhibition by Palette Creative Association of Dubna Artists
- [8 September 2022](#), at 7:00 PM. JINR Universal Public Library. Meeting of the book club "Hairpin": discussing the book "The Cazalet Chronicles" by Elizabeth Jane Howard
- [9 September 2022](#), at 7:00 PM. JINR Scientists' Club. Lecture "Faces of Art Nouveau"
- [10 September 2022](#), at 6:00 PM. JINR Universal Public Library. "Gutenberg's Smoking Room" meeting
- [15 - 16 September 2022](#), at 7:00 PM. JINR Cultural Centre "Mir". Jazz festival "MuzEnergo"

For Kids

- [10 September 2022](#), at 5:00 PM. JINR Universal Public Library. Let's READers

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