

JINR Newsletter #30, 14 August 2024

Dear colleagues and friends,

Last week, JINR hosted an international seminar to pay tribute to one of the leading JINR researchers, Igor Golutvin, Chief Researcher of the Scientific and Experimental Physics Department at CMS at VBLHEP, Scientific Leader of the CMS Experiment at the LHC (CERN).

Also included in the latest issue of the JINR Newsletter are a selection of publications by JINR scientists, announcements of major conferences, and a historical film about Dubna.



Seminars

JINR hosted seminar in memory of Igor Golutvin

On 8 August, the International Seminar entitled "Experimental Methods in Particle Physics" took place at JINR to commemorate Doctor of Physics and Mathematics, Professor Igor Golutvin. More than 100 researchers took part in discussing topical issues of the development of modern particle physics experiments.



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Conferences

Registration for ICPPA-2024 International Conference continues

From 22 to 25 October, Moscow will host the 7th International Conference on Particle Physics and Astrophysics (ICPPA-2024), organized by Moscow Engineering Physics Institute. You can register and submit your abstract [via the link](#) until 10 September.



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Evolving Universe: Theory and Observations Conference invites applications

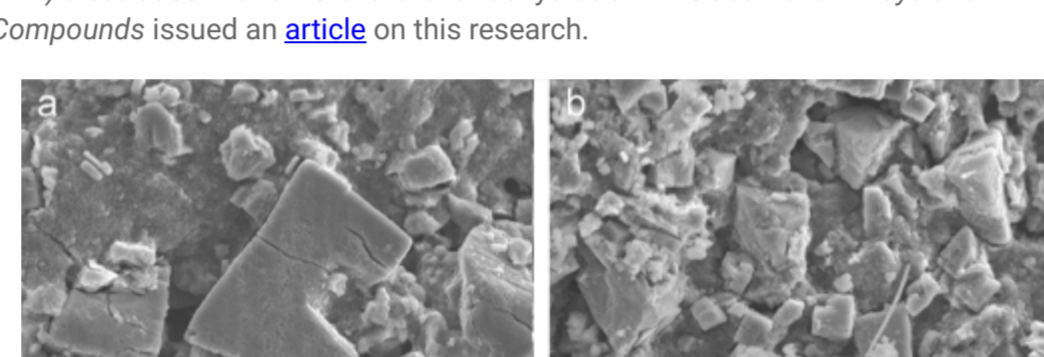
On 7–12 October, a conference in memory of the world-renowned scientist Alexei A. Starobinsky (1948-2023) will take place at Yerevan State University. The event aims to discuss tendencies in cosmology and astrophysics. Registration is available [via the event's website](#) until 1 September.

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Publications

Peculiarities of charge-discharge processes in PW electrodes with different level of dehydration

A research team from FLNP and DLNP at JINR, together with colleagues from Spain and Belarus, conducted a study of charge-discharge processes in Prussian white (PW) electrodes with different level of dehydration. The *Journal of Alloys and Compounds* issued an [article](#) on this research.



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Nonlinear (3, 4, 1) multiplet of N=4, d=1 supersymmetry as semidynamical spin multiplet

The research was carried out by scientists from the Laboratory of Theoretical Physics at JINR and the Moscow Institute of Physics and Technology. The paper was [issued](#) in *Physical Review D*.

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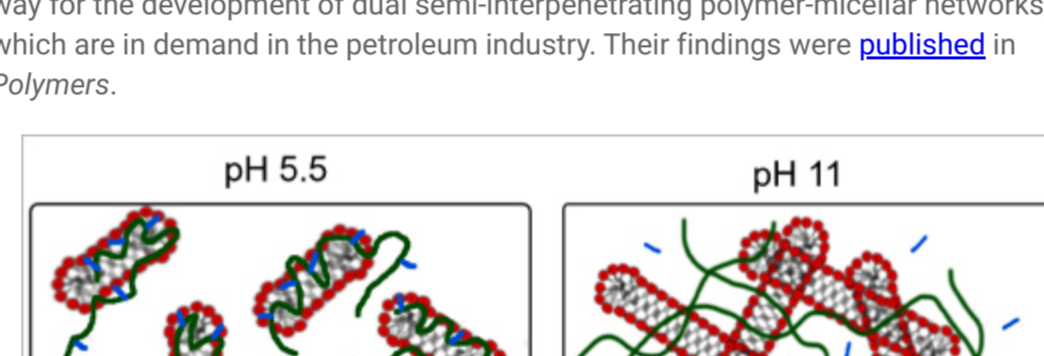
Coherent interactions of fast proton with short-range NN correlations in nucleus

Leading scientists from the Laboratory of Theoretical Physics and the Laboratory of Nuclear Problems at JINR conducted research on coherent interactions of a fast proton with the short-range NN correlations in the nucleus, using data from the BM@N Experiment at NICA. The results were [published](#) in *Physical Review C*.

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On development of semi-interpenetrating polymer-micellar networks

A team of scientists from FLNP JINR, Moscow State University, Kurchatov Institute, and Karaganda Buketov University (Kazakhstan) conducted research that paves the way for the development of dual semi-interpenetrating polymer-micellar networks, which are in demand in the petroleum industry. Their findings were [published](#) in *Polymers*.



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Hydrodynamical dual of the gravitational axial anomaly and the cosmological constant

Scientists from the Laboratory of Theoretical Physics at JINR conducted a joint research with the Kurchatov Institute. The results of the study were [published](#) in *Physical Review D*.

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Books

New Book Acquisitions exhibition in S&T Library

On 12–30 August, the JINR Science and Technology Library is hosting the New Book Acquisitions exhibition. You will find a review of JINR scientific achievements in the past seven-year period, books about outstanding scientists, textbooks on mathematical analysis, programming, and metaphysics, and books on topical issues in physics.

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JINR Youth

Registration for AYSS-2024 Conference opens

The JINR Association of Young Scientists and Specialists invites students, young scientists, and specialists under 36 to participate in the 28th International Youth Conference, which will take place from 28 October to 1 November. You can register [via the link](#) until 22 September.



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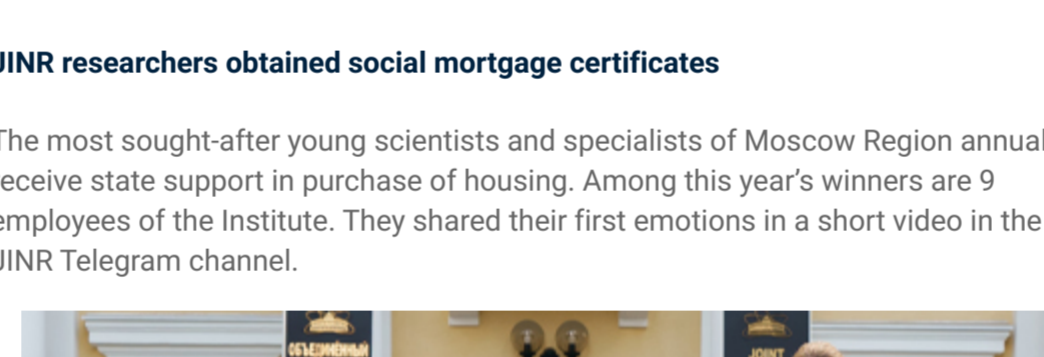
Dubna University students at JINR

FLNP, DLNP, LRB, and VBLHEP JINR are hosting a summer internship. The students are working on a wide variety of projects, such as creating renewable energy sources, synthesising and analysing nanostructured materials, etc.

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JINR researchers obtained social mortgage certificates

The most sought-after young scientists and specialists of Moscow Region annually receive state support in purchase of housing. Among this year's winners are 9 employees of the Institute. They shared their first emotions in a short video in the JINR Telegram channel.



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Announcements

JINR employees acquired test access to mathematical computing platform

The Engage Platform offers a set of tools for engineering and scientific research. You can register via the website. Please make sure to Test access is available until 31 August.

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Media

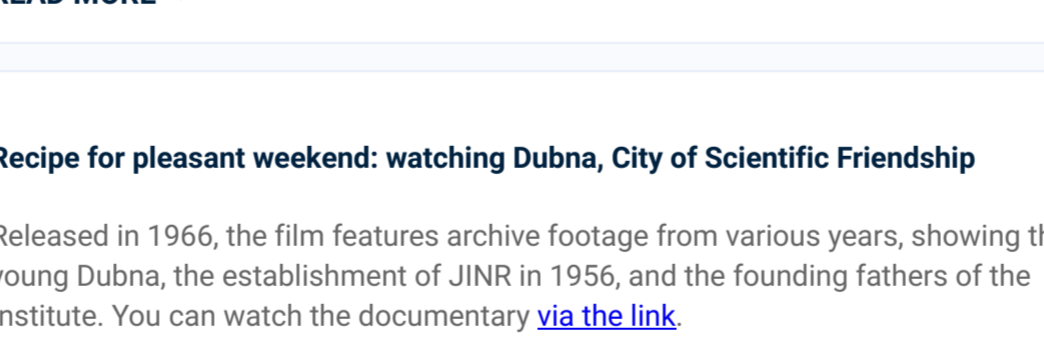
A day in JINR life

On 8 August, the JINR Telegram channel published a post featuring an archive photograph with Nguyen Van Hieu taken exactly 56 years ago, on 8 August 1968. Please enjoy the photo and his brief description.

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Recipe for pleasant weekend: watching Dubna, City of Scientific Friendship

Released in 1966, the film features archive footage from various years, showing the young Dubna, the establishments of JINR in 1956, and the founding fathers of the Institute. You can watch the documentary [via the link](#).



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DLNP JINR seminar recordings

With August serving as an annual break in seminars of the Laboratory of Nuclear Problems, we invite you to explore the archive of recordings.

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Video about past week JINR events

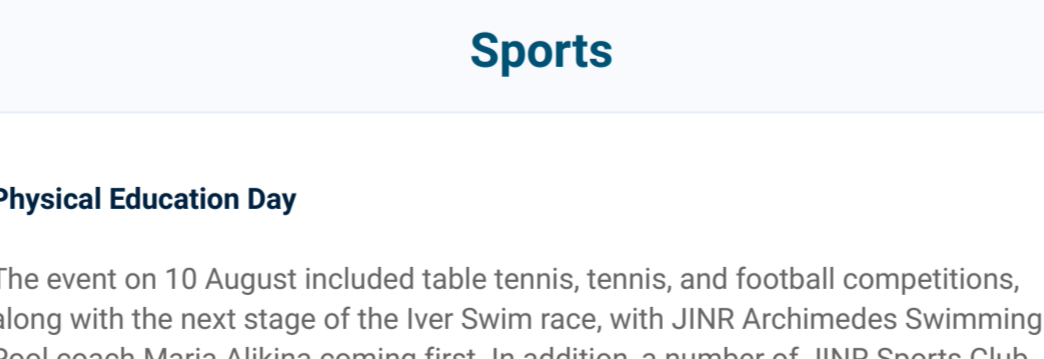
We offer you to watch a video review of highlights from the life of the Institute.

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Sports

Physical Education Day

The event on 10 August included table tennis, tennis, and football competitions, along with the next stage of the Iver Swim race, with JINR Archimedes Swimming Pool coach Maria Alikina coming first. In addition, a number of JINR Sports Club employees received Dubna Deputy Council awards. Congratulations to our colleagues!



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Upcoming Events

Seminars

- [15 August, 11:00 AM, VBLHEP: "Approaches to operational control of the stochastic cooling system of the NICA Collider" by Ivan Gorelyshev](#)

Culture

- [16 July – 1 September, Daily from 1:00 to 7:00 PM \(except Monday\), JINR Mir Cultural Centre, Art exhibition](#)
- [12 – 23 August, Weekdays from 1:00 to 5:00 PM, JINR Universal Public Library, Art workshop for teenagers](#)
- [15 August, 7:00 PM, JINR Universal Public Library, Summer Reading List book club](#)
- [16 August, 6:00 PM, JINR Universal Public Library, English speaking club](#)
- [16 August, 6:00 PM, JINR Universal Public Library, Meeting of book club for teenagers](#)

[ALL JINR EVENTS →](#)