

JINR Newsletter #29, 7 August 2024

Dear colleagues and friends,

Institute's scientists continue to actively develop research in international teams. At a recent seminar on Chinese-Russian cooperation in the MPD-ITS Project at NICA, participants discussed the production status of the MPD Internal Tracking System. A number of articles in various areas of physics, written in partnership with colleagues from Armenia and China, have been published in prestigious journals.

In addition, JINR took part in organizing the Summer School, one of the largest educational projects in Russia, and held a meeting dedicated to the issues of creating a comfortable urban environment in Dubna, where the Joint Institute is located.

You can find the announcements of autumn scientific events, a new release of the JINR wallpapers, results of the Dzhelepov Tennis Tournament, and much more in the latest issue of the JINR Newsletter.



NICA

China-JINR cooperation strengthening in MPD Experiment

On 23–24 July, JINR hosted the seminar on the Chinese-Russian cooperation in the NICA MPD-ITS Project. Specialists from JINR, Saint Petersburg State University, the Central China Normal University, and the University of Science and Technologies of China gathered at VBLHEP to discuss the status and future steps of the project.



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Research

New stage of biological research at Baksan Observatory

In the Neutrino Village (Russia), DLNP JINR employees are studying samples collected in the distant parts of the tunnels of the Baksan Neutrino Observatory. Scientists are carrying out research into a unique ecosystem to establish patterns of the depth distribution of ecological niches and living organisms in Andyrchi Mountain.

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Education

JINR organized four workshops of 2024 Summer School

On 5 August, the annual Summer School finished at the JINR Volga Recreation Centre. This year, JINR employees organized several workshops: Element 105, Science Art, PROteins, and (NON)library. Read more about the event in an article on the JINR website.



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Social

Development prospects of Dubna urban environment discussed at JINR

On 3 August, a delegation from the Agency for Strategic Initiatives (ASI) visited JINR. During the visit, a meeting took place at the JINR Directorate to discuss the issues of creating a modern comfortable urban environment in Dubna and other Russian science cities.



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Publications

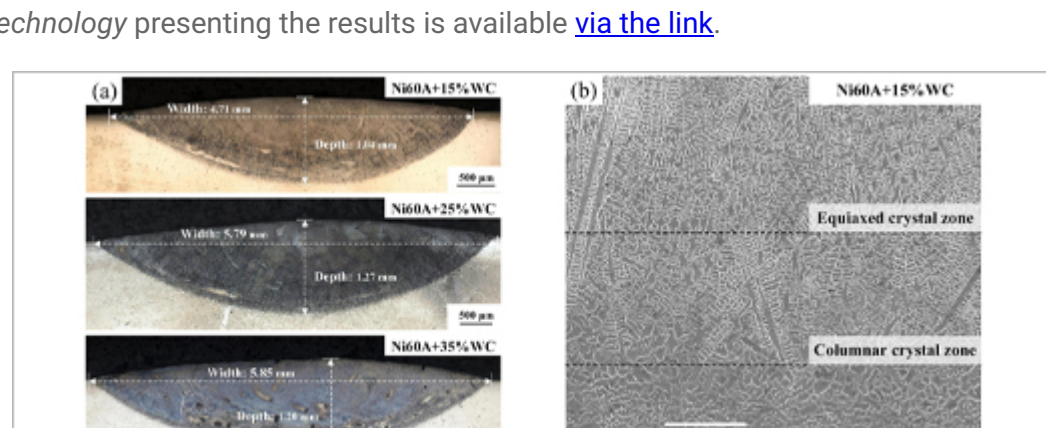
Cross sections of proton-induced neutron emission reactions on thorium and uranium

The study was carried out by scientists of the Veksler and Baldin Laboratory of High Energy Physics at JINR and the Alikhanyan National Science Laboratory (Armenia). You can learn more about the research results in the article [published](#) in *Physical Review C*.

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Reinforcements/matrix micro-interface evolution and properties of in-situ Ni60A/WC coatings

Materials scientists from FLNR JINR and Chinese universities developed Ni60A/tungsten carbide in-situ reinforced composite coatings for Inconel 718 alloy by laser cladding. The full text of the article issued in *Surface and Coatings Technology* presenting the results is available [via the link](#).



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N=8 invariant interaction of dynamical and semidynamical N=4 multiplets

The article by BLTP JINR researchers presenting a new model of N=8 mechanics with semidynamic supermultiplets was [issued](#) in *Physical Review C*.

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Announcements

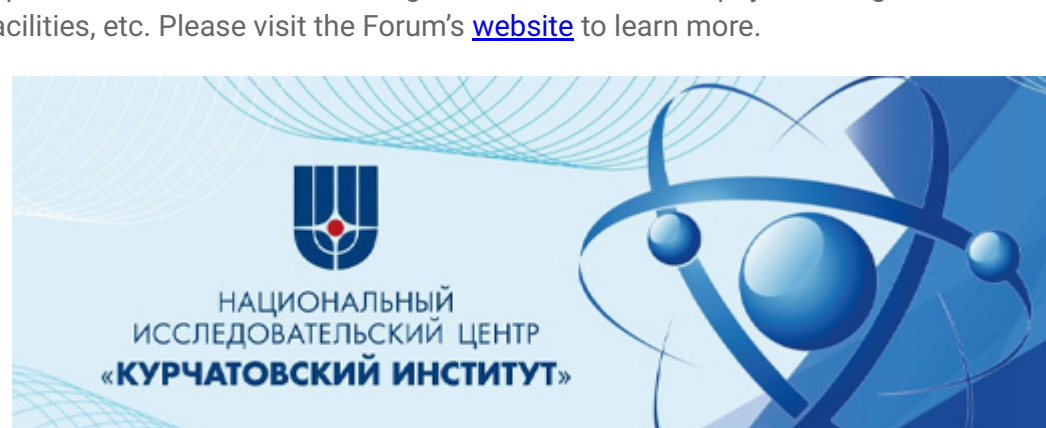
JINR scientist to read lecture in Moscow

Tomorrow, on 8 August, at 7:00 PM, VBLHEP JINR Sector Head Mikhail Novikov will deliver a lecture entitled "Application prospects of high-temperature superconductors in magnetic systems of charged particle accelerators". You can register [via the link](#).

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Kurchatov Forum invites applications

From 21 to 23 October, the Kurchatov Forum on Research Using Synchrotron Radiation, Neutrons, and Electrons will be held in Moscow, Russia. The range of topics includes neutron scattering, materials science, biophysics, megascience facilities, etc. Please visit the Forum's [website](#) to learn more.



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Conference on genetic and radiation technologies in agriculture

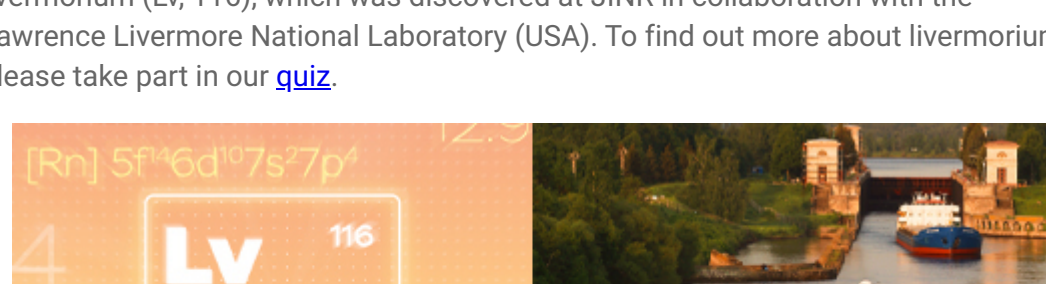
Young researchers and specialists under 39 as well as young PhD scientists under 45 are invited to participate in the event on 23–24 October in Obninsk, Russia. You can attend the conference both in-person and online. For more information please visit the event's [website](#).

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Media

August wallpapers for your smartphones

Please enjoy this month's JINR wallpaper featuring the chemical element livermorium (Lv, 116), which was discovered at JINR in collaboration with the Lawrence Livermore National Laboratory (USA). To find out more about livermorium, please take part in our [quiz](#).



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A day in JINR life

On 2 August, the JINR Telegram channel published a post featuring an archive photograph with Igor Chirikov-Zorin and Yuri Oganessian exactly 21 years ago, on 2 August 1993. Please enjoy the photo and its brief description.

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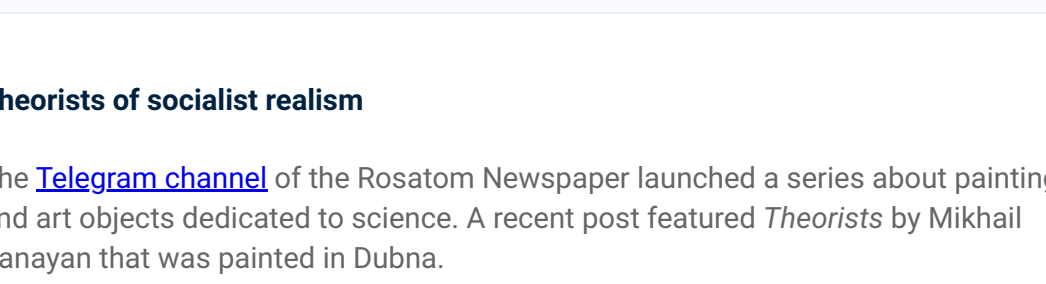
Documentary about brightest experiment of a city

From 5 to 8 August, at 8:55 PM, the Russia Culture TV channel is broadcasting the Dubna. *Birth of the World* (2021) film series. You can watch the documentary about the history of Dubna and JINR [online](#) (in Russian).

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Theorists of socialist realism

The [Telegram channel](#) of the Rosatom Newspaper launched a series about paintings and art objects dedicated to science. A recent post featured *Theorists* by Mikhail Kanayan that was painted in Dubna.



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Video about past week JINR events

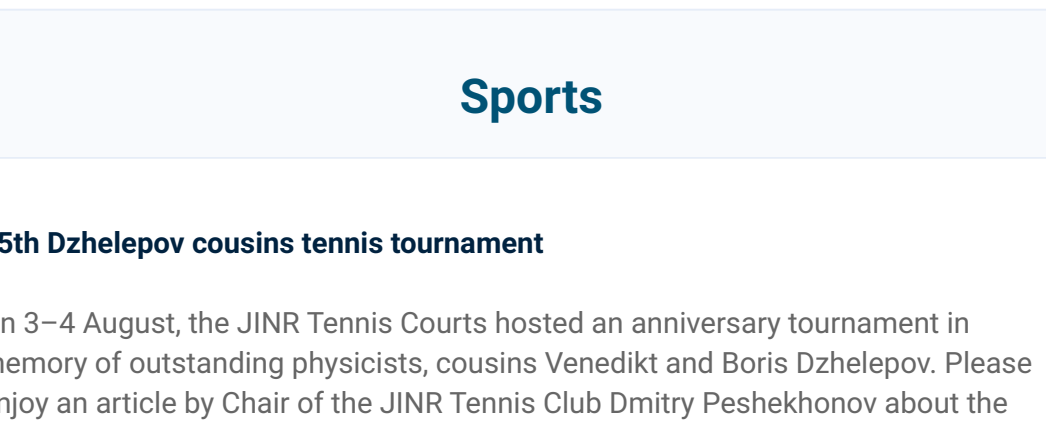
We offer you to watch a video review of highlights from the life of the Institute.

[WATCH →](#)

Sports

25th Dzhelepov cousins tennis tournament

On 3–4 August, the JINR Tennis Courts hosted an anniversary tournament in memory of outstanding physicists, cousins Venedikt and Boris Dzhelepov. Please enjoy an article by Chair of the JINR Tennis Club Dmitry Peshekhonov about the results of the competition.



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Upcoming Events

Conferences

- [8 August. Experimental Methods in Particle Physics. International scientific seminar in memory of Professor Igor Golutvin. JINR, Dubna](#)

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](#)
- [9 August. 6:00 PM. JINR Universal Public Library. English speaking club](#)
- [13 August. 7:00 PM. JINR Universal Public Library. Genealogical club's meeting](#)

Sports

- [10 August. 9:00 AM. JINR Nauka Stadium. Physical Culture Day](#)
- [11 August. 9:00 AM. JINR Nauka Stadium. Track and field race](#)

[ALL JINR EVENTS →](#)