JINR Newsletter #4, 4 February 2026

Dear colleagues and friends,

Scientists of the Laboratory of Neutron Physics at JINR conducted air biomonitoring – a crucial task for minimising environmental risks and protecting public health – near Moscow Region roads. In addition, JINR and ITMO specialists proposed a new approach to determining parameters of twisted particles that could be applied at accelerators and in microscopy.

2 February marked the 95th anniversary of the birth of Victor Alekseevich Sviridov, an outstanding experimental physicist and the founder of a method for studying diffraction processes. The researcher's studies, as well as reminiscences of him, will be discussed at a seminar on 20 February.

Find out about available edicational programmes, conferences, and cultural events, along with a new People at JINR episode, a Cuba evening at the JINR Public Library, and much more in the latest JINR Newsletter.

JINR Press Office

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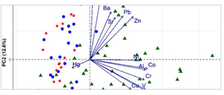
Research

FLNP JINR identified air pollutants on Moscow Region roads

The scientists conducted air biomonitoring – a crucial task for minimising environmental risks and protecting public health – near three highways. Moss was placed in special bags in roadside areas and then tested in the laboratory for absorbed pollutants.



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JINR and ITMO scientists proposed new approach to determining parameters of twisted particles

The method developed by specialists from DLNP at JINR and the ITMO University simplifies parameter determination and can thus be used for twisted particle monitoring at accelerators. In addition, it can find applications in the electron and ion microscopy.

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Tributes

Victor Sviridov, founder of method for studying diffraction processes

2 February marked the 95th anniversary of the birth of Victor Alekseevich Sviridov – one of Vladimir Veksler's collaborators , a co-author of JINR discoveries, and an outstanding experimental physicist. A seminar in his honour will take place on 20 February.

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Announcements

Registration for Wave 14 of INTEREST Programme opens

The International Remote Student Training will take place from 2 March to 19 April. You can submit your application until 19 February.

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Largest radiobiology event to take place in Dubna

From 5 to 9 October, the science city will host the 9th Congress on Radiation Research. The event will be held in a hybrid format, with international participation. Registration and abstract submission are available via the link.

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International Engineering School invites applications

As part of the annual school at Dubna University, both students and specialists have the chance to enhance their skills under the guidance of employees of the Laboratory of High Energy Physics at JINR. You can find the list of courses on the website.

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Celebrating Day of Russian Science

Everyone interested are welcome to a lecture about Mikhail Vasilievich Lomonosov at the JINR International Conference Centre and a family quest organized by the JINR Universal Public Library. Please note that registration is required for the quest.

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Media

How NICA injection complex works

The new episode of People at JINR is devoted to those solving tasks at the NICA injector and to the applications of similar technologies in everyday life.

WATCH ➞

A day in JINR history

The JINR Telegram channel shared archival photos of the Institute. Take a look at the MT-17 Microtron Electron Accelerator at the Laboratory of Nuclear Reactions at JINR.

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Cuba evening at Blokhinka: overview

The Institute's employees from Cuba took part in an event dedicated to its culture and society. You can watch the short film about JINR's collaboration with the country, shown during the evening and dedicated to the 50th anniversary of Cuba as a JINR Member State, via the link.

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Seminar recording

We invite you to watch a recording of the seminar "Relativistic quantum-mechanical description of the acceleration of twisted Dirac particles in a uniform electric field" by Alexander Silenko.

WATCH ➞

Weekly JINR Newspaper issued

A new issue of the Weekly JINR Newspaper, #3, has been published. Please note that you can read an English version on the JINR Newspaper's website.

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Upcoming Events

Workshops

- **31 January – 7 February**, Teachers of Future workshop for senior physics and mathematics students, JINR, Dubna

Seminars

- **5 February**, 11:00 AM, FLNP, "NiTiHf alloys with high-temperature shape memory effect" by Aleksandr Shultcev
- **5 February**, 11:00 AM, VBLHEP, "Common iron passive magnetic shielding for scintillator array photomultiplier tubes" by Stepan Chernopsov
- **5 February**, 2:30 PM, BLTP, "Reflection equation and BC-type quantum spin chains with SL(2,C) and SL(2,R) symmetry groups" by Pavel Antonenko
- **6 February**, 11:30 AM, VBLHEP, "Quark structure of nucleons and nuclei" by Genis Musulmanbekov
- **9 February**, 11:00 AM, BLTP Journal Club, "Experimental confirmation of the Migdal effect and its significance in the dark matter detection" by Chitta Ranjan Das
- **10 February**, 11:00 AM, DLNP, Dissertation Council, "Physics of atomic nuclei and elementary particles, high energy physics" by Igor Zhitnikov

Culture

- **13 January – 8 February**, Daily from 1:00 to 7:00 PM (except Monday), JINR Mir Cultural Centre, "PLAY" exhibition by sculptor Sergey Serezhin
- **7 February – 7 March**, JINR Universal Public Library, My Dubna exhibition
- **5 February**, 6:00 PM, JINR Universal Public Library, English speaking club
- **5 February**, 7:00 PM, JINR Universal Public Library, Hairpin book club
- **6 February**, 5:30 PM, JINR Museum of History of Science and Technology, Russian Science Day lecture
- **6 February**, 6:00 PM, JINR Universal Public Library, JINR Cinema Club
- **6 February**, 7:00 PM, JINR, JINR Scientists' Club, Lecture on Russian art of 19th century
- **7 February**, 3:00 PM, JINR Universal Public Library, Elements Projects family quest
- **10 February**, 6:00 PM, JINR, JINR Scientists' Club, JINR Film Union
- **10 February**, 7:00 PM, JINR Universal Public Library, Genealogical club's meeting

ALL JINR EVENTS ➞

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