

JINR Newsletter #2, 18 January 2024

Dear colleagues and friends,

The latest issue of the JINR Newsletter features results of the workshop on methods of data analysis and processing in experiments at the NICA Accelerator Complex.

The particle physics topic also covers the first meeting of the JINR Governing Bodies this year. On Monday, 22 January, the meeting of the JINR Programme Advisory Committee on Particle Physics will take place.

You will also find new scientific publications, education and sports news in this issue.

JINR Press Office



Advisory and Governing Bodies

59th meeting of PAC for Particle Physics

On 22 January 2024, the 59th regular meeting of the Programme Advisory Committee for Particle Physics chaired by Itzhak Tserruya will take place at the JINR International Conference Centre.

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Conferences

Analysis and processing of data at NICA discussed at international seminar

On 25 – 27 December, an international online seminar took place. The seminar was about methods of data analysis and processing in experiments at the NICA Accelerator Complex (NICA-2023). The event brought together more than 100 scientists from around the world engaged in the theory and analysis of real data from experiments on the relativistic nuclear collisions research.

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Education

JINR opened applications for International School for Physics Teachers

On 9 January, applications for participation in the International School for Physics Teachers organized by the JINR University Centre were opened. The school will take place on 7 – 13 July.



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Publications

Dynamic polaron model for studying process of electron hydration

The *Physics of Elementary Particles and Atomic Nuclei* journal has issued a preprint "Dynamic polaron model for studying process of electron hydration". A review of studies of the process of electron hydration based on the approach developed by the authors in the framework of the dynamic polaron model is presented in this paper.

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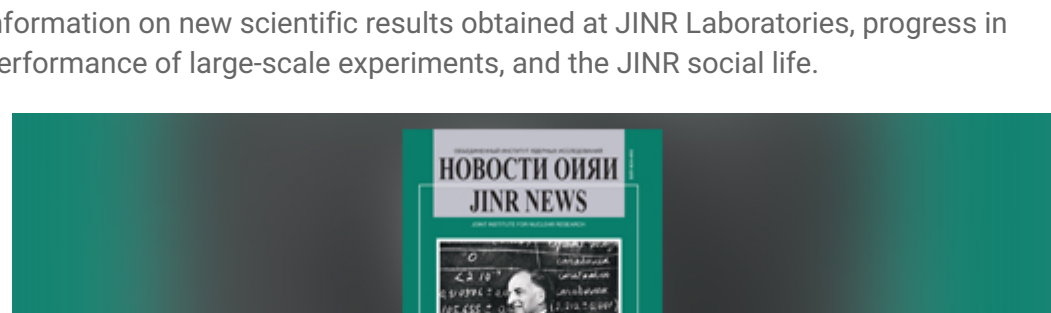
On scattering of massive neutral lepton on nucleus

We offer to your attention a study "On scattering of massive neutral lepton on nucleus" published in the *Physics of Elementary Particles and Atomic Nuclei* journal. A theoretical approach to the description of the relativistic scattering of a massive (neutral) lepton on a nucleus, in which the latter retains its integrity, is presented in this paper.

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JINR News bulletin #4 2023 issued

The fourth issue of the JINR News bulletin 2023 has been published. It provides information on new scientific results obtained at JINR Laboratories, progress in performance of large-scale experiments, and the JINR social life.



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New issue of Particles and Nuclei, Letters journal

The issue of the *Particles and Nuclei, Letters* journal #1 with results of the original theoretical, experimental, scientific-technical, methodological, and applied research has been published.

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Books

New Book Acquisitions exhibition in S&T Library

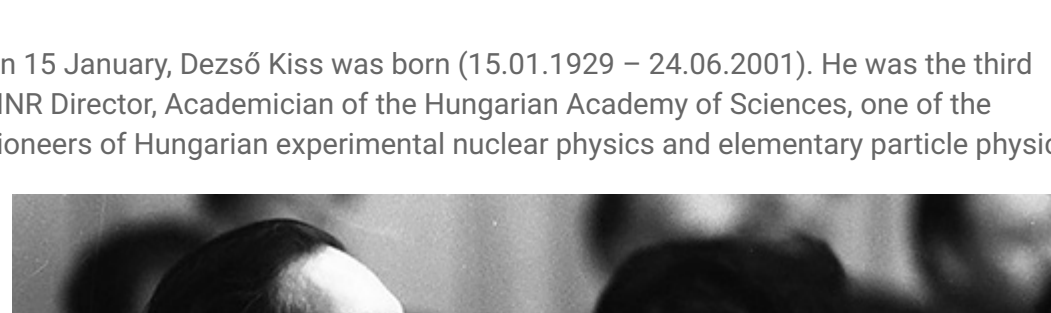
Readers can find textbooks and monographs on mathematical analysis, physics, topology, parallel computing, and much more! The exhibition is taking place on 15 January – 2 February.

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Recalling founders

Dezső Kiss

On 15 January, Dezső Kiss was born (15.01.1929 – 24.06.2001). He was the third JINR Director, Academician of the Hungarian Academy of Sciences, one of the pioneers of Hungarian experimental nuclear physics and elementary particle physics.



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Announcements

Trip to ski resort

The Association of Young Scientists and Specialists of JINR is organizing a trip to the Sorochany ski resort on 27 January. Planned skiing time: 4 hours. Registration will last until 19 January, 3:00 PM.

[SIGN UP →](#)

Dubna City Tourists Club looks for speakers

On 3 February 2023, from 4:00 PM to 8:00 PM, the JINR Universal Public Library will host an evening for tourists. All interested can present a report on their trips in the last season. If you would like to participate, please inform the [organizer](#) via direct message.

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Media

New podcast by RIA Novosti with JINR scientist

Is our Universe a "shadow" of multidimensional space? Why can't we see extra dimensions? Why do physicists search for symmetry between elementary particles? A BLTP senior researcher Maria Savina answered these and other questions in a new episode of the popular science podcast "We will all die. But we are not sure".



[LISTEN →](#)

DLNP seminar record

We invite you to watch a record of the seminar "Research and development of creation of polarized deuteron beam and ³He polarized target" by Yuri Pili.

[WATCH →](#)

Video about past week JINR events

We offer you to watch a video review of recent events from the life of the Institute and Dubna.

[WATCH →](#)

JINR Weekly Newspaper issued

A new issue of the JINR Weekly Newspaper #2 has been published. Please note that you can read an English version of the JINR Newspaper's website.

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Sports

Ski relay

A JINR team has taken part in the 44th ski relay in memory of the MKB Raduga's first chief designer Alexander Berezhnyak in the category of teams of city's enterprises and organizations.

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Upcoming Events

Advisory and Governing Bodies

- [22 January, 11:00 AM, 59th Meeting of the Programme Advisory Committee for Particle Physics, JINR International Conference Centre, Dubna](#)

Conferences

- [22 – 27 January, 11:00 AM, XXXI International Conference "Mathematics, Computing, Education", Dubna State University, Dubna](#)

Seminars

- [19 January, 11:00 AM, FLNP, "Mechanical and temperature calculations of the reactivity modulator construction of the NEPTUN research reactor" by Ivan Kushnir](#)
- [19 January, 11:30 AM, VBL-HEP, "Spin Physics Detector \(SPD\) at the NICA Collider" by Alexander Korzenev](#)
- [19 January, 2:30 PM, BLTP, "SS-HORSE-NCSM approach and its application to light exotic nuclei" by Igor Mazur](#)
- [19 January, 3:00 PM, FLNP, "Quantum optics based on artificial quantum technologies" by Oleg Astafiev](#)
- [22 January, 11:00 AM, BLTP, "Gamma-ray bursts challenge our theories of cosmic cataclysms" by Chitta Ranjan Das](#)

Culture

- [4 December 2023 – 2 February 2024, daily from 2:00 PM to 6:00 PM \(except Monday\), JINR Scientists' Club, Olga Trifonova, Art exhibition](#)
- [29 December 2023 – 27 January 2024, daily from 11:00 AM to 8:00 PM \(except Sunday\), Saturday from 12:00 PM to 6:00 PM, JINR Universal Public Library, Exhibition by Mikhail Kozlov and Leonid Vecherovsky](#)
- [16 January – 18 February, daily from 1:00 to 7:00 PM, JINR Cultural Centre "Mir", Edges of graphics exhibition](#)
- [18 January, 7:00 PM, JINR Universal Public Library, Summer Reading List book club](#)
- [18 January, 7:00 PM, JINR Universal Public Library, Italian speaking club](#)
- [19 January, 6:00 PM, JINR Universal Public Library, JINR Cinema Club](#)
- [20 January, 4:00 PM, JINR Cultural Centre "Mir", Edges of Graphics exhibition, Meet-and-greet session](#)
- [20 January, 5:00 PM, JINR Universal Public Library, "Edges of romanticism" concert](#)
- [20 January, 6:00 PM, JINR Cultural Centre "Mir", The real Mussorgsky, Lecture 1](#)
- [21 January, Istra, Moscow region, Trip by JINR Scientists' Club](#)
- [25 January, 7:00 PM, JINR Universal Public Library, Hairpin book club](#)
- [25 January, 7:00 PM, JINR Cultural Centre "Mir", "Interview with Vysotsky" concert-performance](#)

Sports

- [20 January, 7:00 PM, JINR "Nauka" Stadium, General meeting on preparation for 25th JINR Sports Games](#)

For Kids

- [20 January, 4:00 PM, JINR Universal Public Library, Children's research project "Archimedes Pear"](#)
- [20 January, 5:00 PM, JINR Universal Public Library, Let's READers](#)

[ALL JINR EVENTS →](#)