



JINR Newsletter #39, 16 October 2024

Dear colleagues and friends,

JINR is hosting meetings of the NICA Megascience Project collaborations. The BM@N Experiment Collaboration Meeting has concluded; this week scientists were discussing the progress of the MPD Detector.

The NICA Collider development was also the topic of a Russia-China Workshop, the participants of which considered plans for joint research. JINR scientists actively participated in the 5th International Scientific Forum in the Republic of Kazakhstan.

This week the Institute also celebrates the 80th anniversary of the birth of Alexei Sissakian. You can learn about the literature exhibition in memory of the outstanding JINR scientist, a new patent, scientific events, and much more in today's issue of the JINR Newsletter.



Cooperation

JINR at Nuclear Science and Technology International Forum in Republic of Kazakhstan

The event, organized with the participation of Republic's Ministries and scientific and educational institutions and supported by CERN, finished on 11 October at Al-Farabi Kazakh National University. Among the main discussion topics were latest research achievements and international cooperation, with JINR's contribution highlighted in both.



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Joint Russia-PRC seminar on NICA Project held in China

On 10–13 September, Qingdao hosted the 2nd China-Russia Joint Workshop on the NICA Facility. Research teams from JINR and various Chinese universities discussed the latest achievements of the MPD Experiment, first results of the BM@N Collaboration, the Chinese RHIC Collider, and plans for further collaborative research.

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Conferences

MPD Collaboration Meeting took place at VBLHEP at JINR

On 14–16 October, the Laboratory of High Energy Physics at JINR hosted the 14th Collaboration Meeting of the MPD Experiment at the NICA Complex. The participants reviewed the progress of the collider's construction and new ideas and initiatives on using the MPD Detector.



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Autumn IT-School finished at JINR

Please enjoy an article about the results of the event that took place from 7 to 11 October, gathering more than 50 students at MLIT at JINR. The next IT school is set to take place in spring for the students to present the results of projects they are working on under the leadership of JINR scientists.

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Anniversaries

80th anniversary of birth of Alexei Sissakian

On 14 October, the Institute commemorates the leading specialist in theoretical physics, talented scientific leader, writer, and poet Alexei Sissakian. Find out more about the life of the outstanding scientist in the article featuring archive photos.



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Research

Program for predicting radiation damage to nerve cells registered

LRB JINR employees created and patented software for radiobiological estimation of the harmful effect of various types of ionising radiation on the structures of the central nervous system taking into account a detailed description of the subneuronal target, track structure, and radiolysis mechanism.

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Books

Exhibition in S&T Library in memory of Academician Alexei Sissakian

From 14 October, the JINR Science and Technology Library is hosting a literature exhibition dedicated to the 80th anniversary of the birth of JINR Director in 2006–2010 Alexei Sissakian. Readers can find monographs, poetry anthologies, journal articles by the outstanding scientist, and much more.

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Media

BM@N Collaboration: results and plans

On 8–10 October, VBLHEP at JINR hosted the 13th Collaboration Meeting of the BM@N Experiment. Scientists discussed the results that the collaboration achieved and plans for future experiments. Please enjoy a video about the event.



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[WATCH ON YOUTUBE →](#)

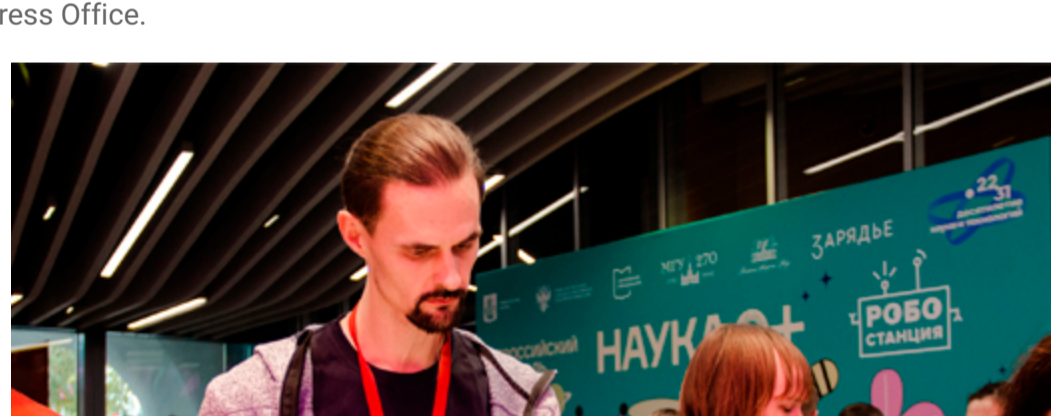
Yuri Oganessian entered top of world's most cited scientists according to 2023 results

The statistics were published by Stanford University in partnership with Elsevier academic publishing company. We congratulate FLNR JINR Scientific Leader Yuri Oganessian and wish him further success in science!

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JINR at NAUKA 0+ Festival

The scientific event, which took place On 11–13 October in Moscow, featured lectures by JINR researchers, specialised stands showcasing the projects of the Institute, and much more. Please enjoy a short video about the festival by the JINR Press Office.



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A day in JINR life

On 3 October, the JINR Telegram channel published a post featuring an archive photograph with Vladimir Kuznetsov preparing the FAZA Facility for an experiment at DLNP at JINR taken exactly 33 years ago, on 3 October 1991. Please enjoy the photo and its description.

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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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JINR Weekly Newspaper issued

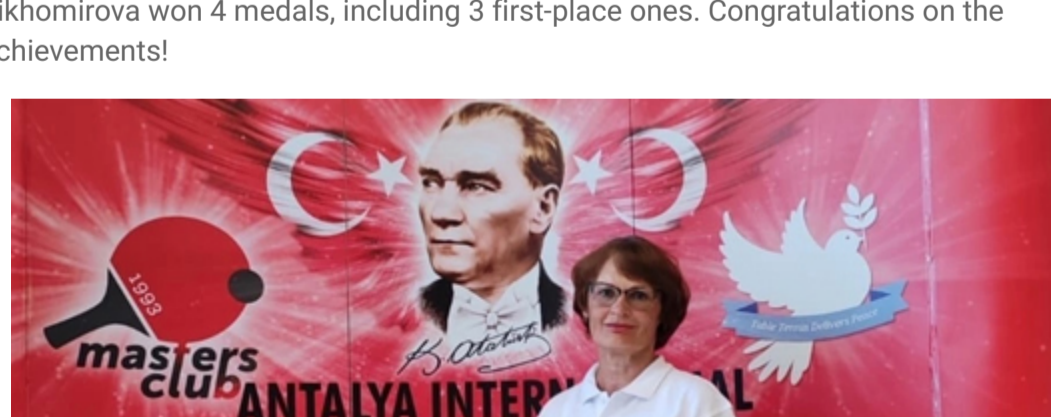
A new issue of the JINR Weekly Newspaper #39 has been published. Please note that you can read an English version on the JINR Newspaper's website.

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Sports

JINR employee in international table tennis tournament

Turkey hosted the 30th International Masters Table Tennis Tournament, gathering over 500 athletes from all over the world. A JINR Sports Club instructor Inna Tikhomirova won 4 medals, including 3 first-place ones. Congratulations on the achievements!



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Football tournament among JINR teams

The sports event took place as part of the celebration of the 70th anniversary of the JINR Nauka Stadium. The team of the Chief Power Engineer's Department came first, with FLNP and VBLHEP as runner-ups. Congratulations to the athletes!

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Upcoming Events

Conferences

- **16 – 18 October.** [Current problems in radiation biology. Modification of radiation-induced effects.](#) JINR, Dubna
- **18 October.** [Seminar dedicated to 80th anniversary of birth of Academician Alexei Sissakian.](#) JINR, Dubna
- **21 – 23 October.** [Scientific School for Schoolchildren of Moscow Region.](#) JINR, Dubna
- **21 – 24 October.** [2nd module of scientific school "New materials and technologies for advanced energy systems."](#) JINR, Dubna
- **21 – 25 October.** [International Conference "Mathematical Modelling and Computational Physics 2024" \(MMCP 2024\).](#) Yerevan, Armenia

Seminars

- **17 October.** [11:00 AM, DLNP. Dissertation Council. "Research of module characteristics in creation of liquid argon hadron end-cap calorimeter of ATLAS Detector"](#) by Andrey Shalyugin
- **17 October.** [11:30 AM, VBLHEP. "Effect of pulsed electron and ion irradiation on magnetic properties of metastable La_{0.6}Ba_{0.4}CoO_{3-δ} and HTSP tapes"](#) by Vadim Efimov
- **17 October.** [11:00 AM, DLNP. "Photonuclear reactions on stable isotopes of natSa and natMo"](#) by Fazilat Rasulova
- **17 October.** [4:00 PM, BLTP. "Analysis of experimental data on neutron decay for possibility of existence of right vector boson W_R"](#) by Anatoly Serebrov
- **18 October.** [10:00 AM, VBLHEP. "Colliders" lecture series. "Beam cooling methods in synchrotrons. Part 2"](#) by Valery Lebedev
- **18 October.** [11:30 AM, VBLHEP. "Puzzles of multiplicity", "Active role of gluons in hadron interactions", "Multiplicity distributions of neutral pions in hadron interactions"](#) by Elena Kokoulina
- **21 October.** [11:00 AM, BLTP. Journal Club. "Topological spin-orbit torque in ferrimagnetic Weyl semimetal"](#) (discussion on Weyl semimetal) by Kaushal Kumar Kesharpu
- **21 October.** [3:30 PM, BLTP. "Giant dipole resonance and related spin-dependent excitations"](#) by Irina Molodtsova
- **22 October.** [4:00 PM, BLTP. "Integrable many-particle systems"](#) by Vladimir Inozemtsev
- **23 October.** [11:00 AM, DLNP. "Charmonium production processes at LHC energies in k_T factorisation approach to QCD"](#) by Andrey Prokhorov
- **23 October.** [11:00 AM, BLTP. "Simplification of classical polylogarithms and Chen's iterated integrals for multiloop calculations"](#) by Roman Lee

Culture

- **2 – 27 October.** [Daily from 1:00 to 7:00 PM \(except Monday\), JINR Mir Cultural Centre. Exhibition of wood art](#)
- **17 October.** [5:00 PM, JINR Scientists' Club. Women in Science discussion](#)
- **17 October.** [6:00 PM, JINR Universal Public Library. JINR Cinema Club](#)
- **17 October.** [7:00 PM, JINR Universal Public Library. Hairpin book club](#)
- **18 October.** [6:00 PM, JINR Universal Public Library. English speaking club](#)
- **22 October.** [7:00 PM, JINR Universal Public Library. Genealogical club's meeting](#)

For kids

- **19 October.** [5:00 PM, JINR Universal Public Library. "Let's READers" and Growing up from "Let's READers"](#)

[ALL JINR EVENTS →](#)