CP JINR session took place on African continent for the first time On 23 – 24 November, a session of the Committee of Plenipotentiaries of JINR was held in Egypt. At the session, its participants discussed scientific results of the Institute. In addition, CP JINR members approved the draft of the Seven-Year Plan for the Development of JINR in 2024 – 2030. The results of the

fascinating events, lectures, and film screenings.

CP milestones

Telegram

If you can't see this e-mail properly, view it online

<u>Directorate information</u>

SCIENCE BRINGS NATIONS TOGETHER

JOINT INSTITUTE FOR NUCLEAR RESEARCH

JINR Newsletter #36, 1 December 2022

Start of the 2nd Young Scientists Congress in Sochi is a highlight of the first winter day this year. JINR young scientists are taking an active part in the event.

Receive the latest news from the Congress in the JINR Telegram channel.

In this issue of the JINR Newsletter we will tell you about the past visiting session of the JINR Committee of Plenipotentiaries, new results in the NICA Project, as well as the tremendous success of JINR in scientific communication - winning of the Award "For Loyalty to Science". Watch records of scientific and educational seminars, listen to the radio broadcasts, and read interviews of our researchers. As always, the JINR Community section offers you the list of

Events

JINR Press Office

<u>News</u>

Dear colleagues and friends,

discussions were summed up.

READ MORE →

Egypt - JINR Committee works on cooperation strategy

On 24 November, the 12th meeting of the Joint Coordination Committee on the Egypt-JINR cooperation was held alongside the session of the Committee of Plenipotentiaries. The Committee was devoted to the questions of developing

cooperation in the light of the new status of the Arab Republic of Egypt in the Joint Institute. The Committee on Cooperation completed a series of events and meetings held in Egypt.

READ MORE → Research

Heavy ion beam accelerated at NICA for the first time A xenon heavy ion beam has been accelerated at the NICA Accelerator

Complex for the first time. The intensity of the beam accelerated in the Nuclotron was approximately 10⁷ particles. According to Deputy Head of the Accelerator Department of the Laboratory of High Energy Physics Anatoly

Sidorin, it is currently impossible anywhere else in Russia to accelerate such heavy ions up to relativistic energies.



A development by employees of the Veksler and Baldin Laboratory of High Energy Physics and the Laboratory of Radiation Biology won the youth competition by JINR and Special Economic Zone "Dubna" in the nomination

JINR development won Dubna SEZ competition

laboratory at the NICA complex.

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READ MORE → **Awards** JINR scientist became laureate of "For Loyalty to Science" Award

Sergei Merts, Candidate of Physics and Mathematics, a senior researcher of the Laboratory of High Energy Physics became the winner of the prestigious All-Russian Award "For Loyalty to Science". On 24 November, Press Secretary of the President of the Russian Federation Dmitry Peskov presented the award

"Operating construction". Institute's scientists created a complex to measure the grip strength of paws of mice and rats. Such measurements are promising for a wide range of research, in particular, in biomedicine and pharmacology.

Cooperation

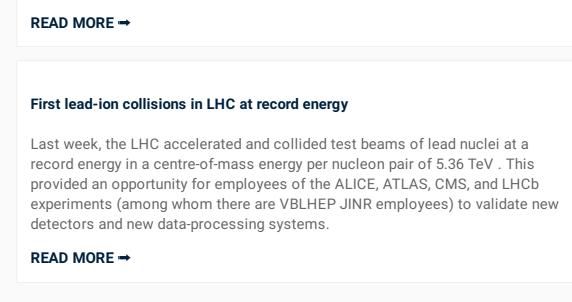
A seminar was held at Saratov State University (SSU), where interaction with JINR scientists was discussed. Scientists of the university and JINR plan to conduct biomonitoring of the atmospheric pollution in the region. The

supervision of FLNP JINR scientists were discussed as well.

JINR and Saratov discussed projects on ecology

in the nomination "Science is fashionable" to Sergei.

possibilities of preparing theses of SSU students on ecological topic under the



Publications

Complex". The headlines of the new issue: highlights of NICA Coordination

Committee meeting, X Collaboration Meeting of the MPD Experiment, recent advances in construction of TOF for MPD, news from BM@N Collaboration, etc.

The eighth issue of the NICA Bulletin has been published reviewing the progress of the implementation of the JINR flagship international project "NICA

ablation of materials and presented the results.

Students from Egypt visited JINR

Fresh NICA Bulletin

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Tchaikovsky"

Film Festival.

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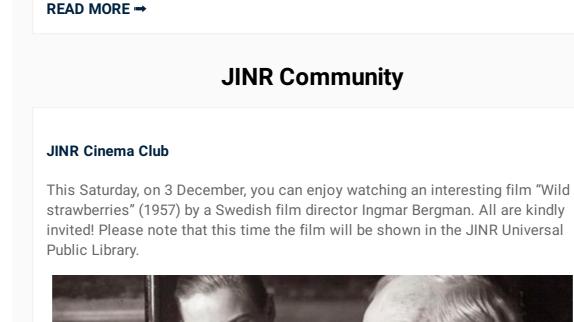
READ MORE →

Numerical investigation of influence of finite sample thickness on laser ablation of materials The JINR Publishing Department has released a preprint "Numerical

investigation of influence of finite sample thickness on laser ablation of materials" P11-2022-32. The authors carried out a numerical study of laser

Education

On 28 November, participants of the Summer Multidisciplinary University "Russia-Africa" visited the Joint Institute for Nuclear Research. During the excursion, students got acquainted with the construction of the NICA Collider and the Factory of Superconducting Magnets.



On 3 December, at 2:00 PM, Denis von Meck, a descendant of the Tchaikovsky, von Meck and Davydov families, will deliver a lecture at the JINR Universal Public Library. The topic of the lecture is "A. S. Pushkin and P. I. Tchaikovsky, A. P. Chekhov and P. I. and Tchaikovsky". The lecturer will present little-known facts, photo and video documents about the life and work of the great composer. READ MORE → **Arctic Documentary Film Festival**

The JINR Cultural Centre "Mir" invites everyone interested to watch a documentary film "We are from the Arctic" of the Arctic Documentary Film Festival (2022). The screening will take place on 2 December, at 7:00 PM. The film "We are from the Arctic" is the final one within the Arctic Documentary

Lecture "A. S. Pushkin and P. I. Tchaikovsky, A. P. Chekhov and P. I.

Announcements Course of lectures at BLTP On 5, 12, and 19 December, A. Baushev and E. Davydov will deliver three lectures on the topic "Gravitational waves and their role in modern physics" at the Bogoliubov Laboratory of Theoretical Physics. At the lectures, you can learn a general idea about the basics of the physics of gravitational waves and

the current state of observations of gravitational waves from cosmic sources.

Media

In November cycle of Lessons of the Present project by the Sirius Centre, school children are looking for the methods to protect the environment from pollutions. FLNP JINR employee Inga Zinicovscaia helps them with it. We kindly invite you to read the interview with Inga, in which she speaks about the

How did this idea to unite physicists and art historians emerge? FLNP JINR employees Andrey Dmitriev and Olga Filippova discussed all that with hosts of

the Physicists and Lyricists radio programme by Mayak Radio Alexander

What unites physicists and art historians? How do physicists help art historians in studies of wall paintings in cathedrals?

Pushnoy and Margarita Mitrofanova.

READ MORE →

LISTEN →

life in the science city.

WATCH →

WATCH →

WATCH →

Conferences

characteristics of leadership styles.

oscillations", which took place on 23 November.

JINR Weekly Newspaper issued

Interview with Inga Zinicovscaia

ecological project for school students.

Dubna and JINR 65 years ago The Strana Rosatom periodical depicted events in Dubna and JINR 65 years ago

based on the materials by Dubna: Science, Community, Progress newspaper (originally called "For Communism"). The Weekly Newspaper wrote not only about scientific results of Dubna, but also about USSR achievements and the

READ MORE → Record of seminar about T2K-II experiment We offer you to watch the record of the seminar "Participation of JINR in the T2K-II experiment", which took place on 22 November.

Record of seminar about semi-exclusive cross sections We kindly invite you to watch the record of the seminar "Flux-integrated semiexclusive cross sections for charged-current quasi-elastic and neutral-current

elastic neutrino scattering on argon and effects of short-baseline neutrino

Record of seminar from series "Lifehacks of some use for a scientist"

We offer you to watch the record of the seminar "Voice of a leader" from a seminar series "Lifehacks of some use for a scientist", which took place on 25 November. You can learn constructive and destructive leadership style, speech

that you can read an English version on the JINR Newspaper's website. READ MORE → **Upcoming Events**

• 5 – 9 December 2022, Scientific School for students from Yamalo-

• 1 December 2022, at 11:00 AM. "Experimental results from the STAR Experiment at Relativistic Heavy Ion Collider" by Lokesh Kumar

• 1 December 2022, at 11:00 AM, FLNR. "Cryogenic gas-filled trap as a

<u>laser-plasma diode with magnetic isolation" by A. E. Shikanov</u>

New issue of the JINR Weekly Newspaper #46 has been published. Please note

• 5 – 9 December 2022, Baikal Collaboration Workshop. Dzhelepov Laboratory of Nuclear Problems JINR, Dubna **Seminars**

Nenets Autonomous Okrug. UC JINR, Dubna

tool for experimental study of heavy and superheavy nuclei" by V. Yu. Vedeneev and "Measurement of response time of the ECR ion source and transport line from the hot trap at the MASHA facility" by A. S. <u>Novoselov</u> • <u>1 December 2022</u>, at 3:00 PM, FLNP. "Neutron generation in a pulsed

- 2 December 2022, at 11:00 AM, DLNP. Lecture of a series of DLNP seminars "Lifehacks of some use for a scientist": "Deviant audiences" by Oksana Pliskovskaya • 2 December 2022, at 11:30 AM, VBLHEP. "Superconducting magnet for SPD detector" by Evgeny Pyata
- 2 December 2022, at 2:30 PM, BLTP. "Non-renormalization theorems in N=1 supersymmetric Yang-Mills theories regularised by higher covariant derivatives" by Nikolai Meshcheryakov
- around the Coulomb barrier energies" by A. K. Nasirov • <u>5 December 2022</u>, at 2:00 PM, BLTP. The first lecture from a series "Gravitational waves and their role in modern physics" by Anton Baushev and Evgeny Davydov

• 5 December 2022, at 3:30 PM, BLTP. "Exploration of the quasifission, complete, and incomplete fusion mechanisms in heavy ion collisions

- 7 December 2022, at 11:00 AM, DLNP. "Magnetic shielding of large photoelectron multipliers for the OSIRIS Facility of the JUNO Detector" by Oleg Smirnov
- Culture • 24 November – 18 December 2022, daily from 1:00 to 7:00 PM (except Monday). JINR Cultural Centre "Mir". Exhibition of macro photography.
- 1 December 2022, at 7:00 PM. JINR Universal Public Library. Meeting of the book club "Hairpin": discussing the book "Women of Lazarus" by Marina Stepnova • 2 December 2022, at 7:00 PM. JINR Cultural Centre "Mir". Arctic Documentary Film Festival. Film "We are from the Arctic"

• 2 December 2022, at 7:00 PM. JINR Scientists' Club. Lecture "Baroque"

"Hidden Worlds"

- 3 December 2022, at 2:00 PM. JINR Universal Public Library. Lecture in the JINR Library • 3 December 2022, at 5:00 PM. JINR Universal Public Library. JINR Cinema Club • 3 December 2022, at 6:00 PM. JINR Cultural Centre "Mir". Concert by
- Valaam monastery choir • 6 December 2022, at 7:00 PM. JINR Cultural Centre "Mir". Concert by Don Cossacks song and dance ensemble For Kids
- 3 December 2022, at 5:00 PM. JINR Universal Public Library. Let's **READers** • 4 December 2022, at 11:00 AM. JINR Museum of History of Science
- **ALL JINR EVENTS** →

and Technology. Classes about optics

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