

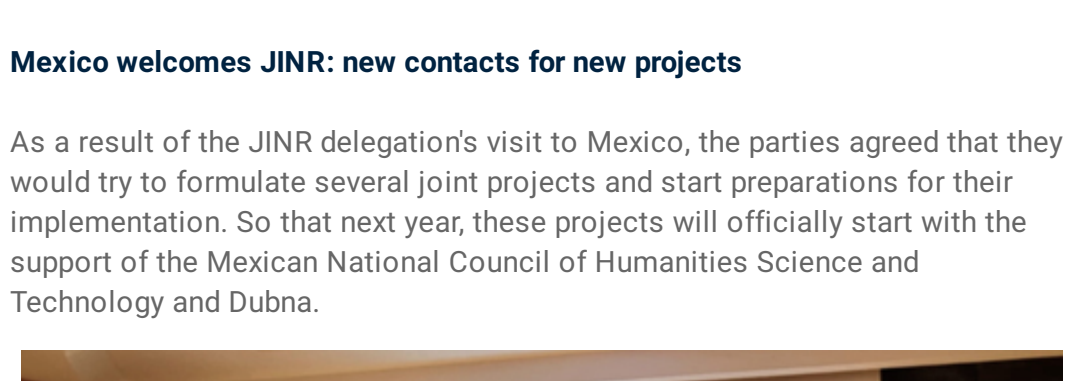
JINR Newsletter #22, 8 June 2023

Dear colleagues and friends,

The 2nd stage of the JINR International Practice for young specialists from South Africa has recently started. In the latest issue of the JINR Newsletter, you can learn about their first impressions of Dubna and the Institute. The conference of the JINR Youth Association is in full swing now. The Baikal-GVD collaboration gathered to discuss the expedition that ended in April as well as future plans of the experiment.

Read also about the results of the JINR delegation visit to Mexico and the development of cooperation between JINR and the Chinese Institute of Plasma Physics (Hefei).

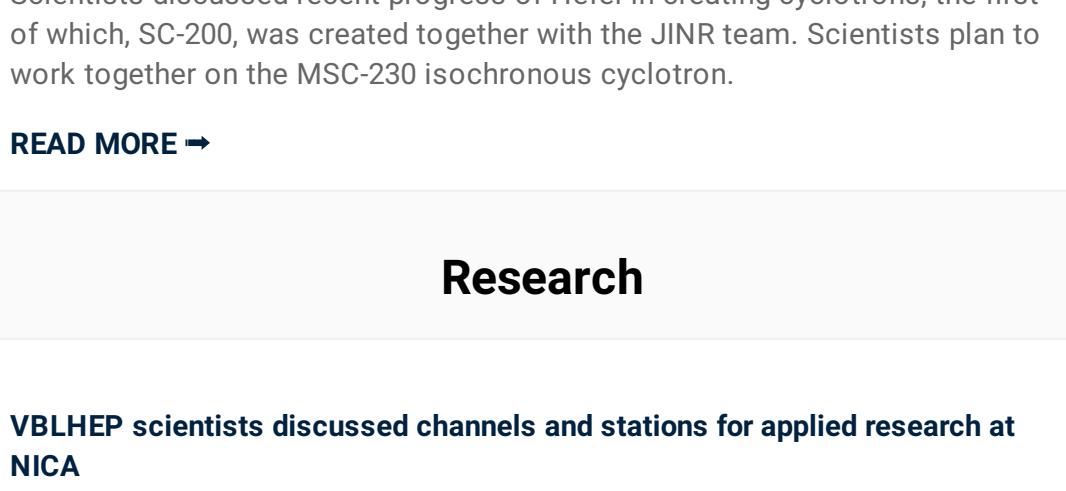
JINR Press Office



Cooperation

Mexico welcomes JINR: new contacts for new projects

As a result of the JINR delegation's visit to Mexico, the parties agreed that they would try to formulate several joint projects and start preparations for their implementation. So that next year, these projects will officially start with the support of the Mexican National Council of Humanities Science and Technology and Dubna.



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New stage of IPP (Hefei) - JINR Cooperation

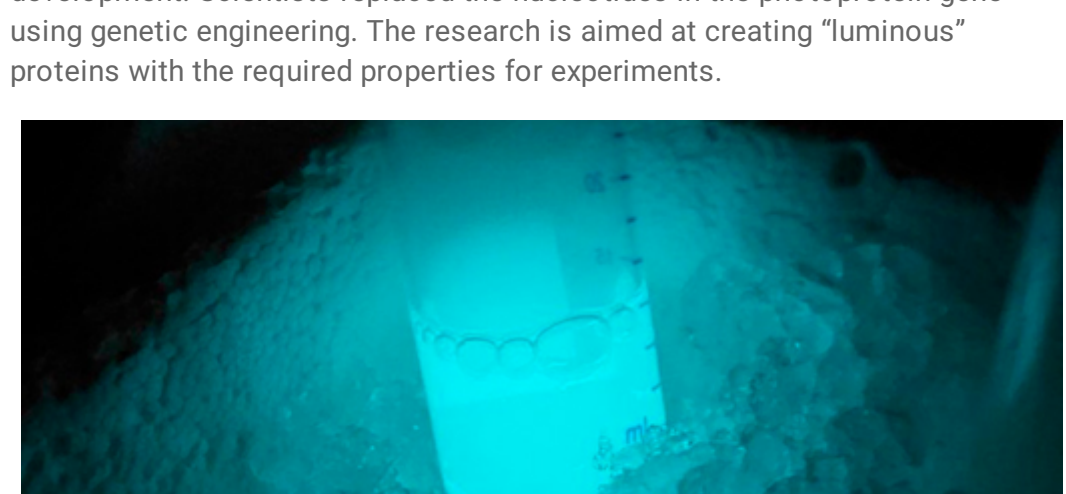
A meeting was held between teams from the Institute of Plasma Physics of the Chinese Academy of Sciences and the DLNP JINR New Accelerators Division. Scientists discussed recent progress of Hefei in creating cyclotrons, the first of which, SC-200, was created together with the JINR team. Scientists plan to work together on the MSC-230 isochronous cyclotron.

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Research

VBLHEP scientists discussed channels and stations for applied research at NICA

On 26 May, a seminar was held at the Laboratory of High Energy Physics JINR. A VBLHEP senior engineer Georgy Filatov spoke about the areas of applied research and equipment of channels and stations, namely SIMBO, ISCRa, and SOCHI. He presented results achieved during the commissioning runs at SOCHI and plans for the future.



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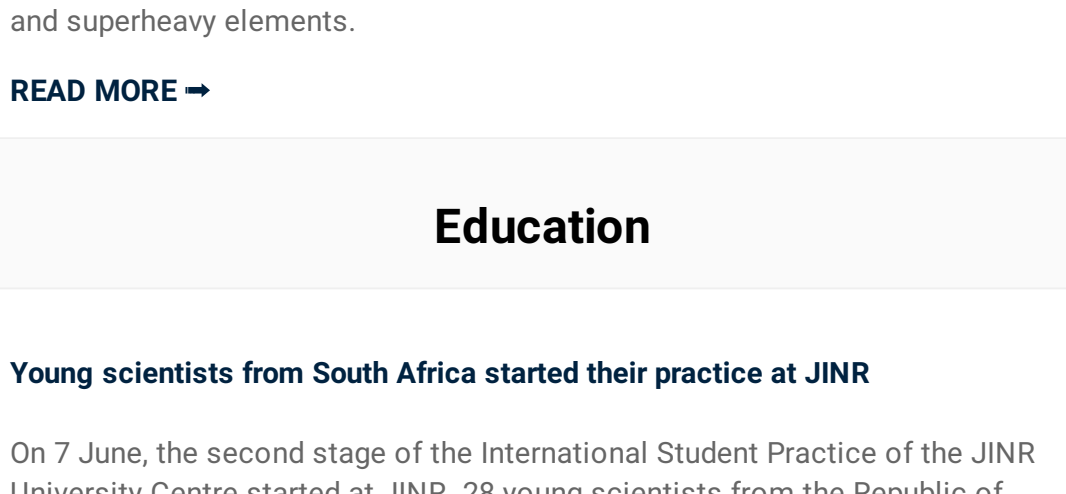
Baikal-GVD collaboration discussed results of winter expedition and future plans

From 30 May to 2 June, a meeting of the Baikal-GVD collaboration was held at DLNP JINR. Participants discussed the results of the last winter expedition during which new clusters of the Baikal Neutrino Telescope were installed. In particular, they discussed the results in increasing the reliability of the telescope and promising results of a new method of time synchronisation of optical modules.

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New light: scientists have studied the structure of photoproteins

Photoproteins, proteins that can glow in the dark, have been studied with JINR participation. They are used in cell research, immunoassay, and detector development. Scientists replaced the nucleotides in the photoprotein gene using genetic engineering. The research is aimed at creating "luminous" proteins with the required properties for experiments.



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World Brain Tumour Day

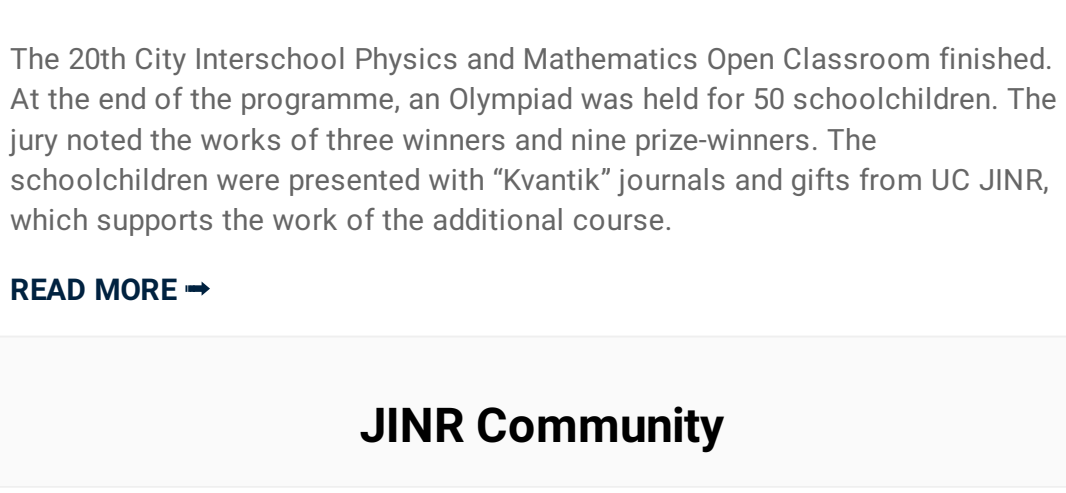
Today is the World Brain Tumour Day. Scientists of the Joint Institute are actively conducting research in this area, raising the possibility of effective cancer treatment.

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Conferences

Regular Conference of Young Scientists and Specialists started in Alushta

The annual International Conference of Young Scientists and Specialists began at the JINR Hotel "Dubna". This year, the event brought together participants from five countries. At the conference, participants will make reports on key JINR projects, the latest achievements, goals and objectives of laboratories within the Seven-Year-Plan for the Development of JINR for 2024 – 2030.



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Let physics save the planet! JINR joined the World Environment Day

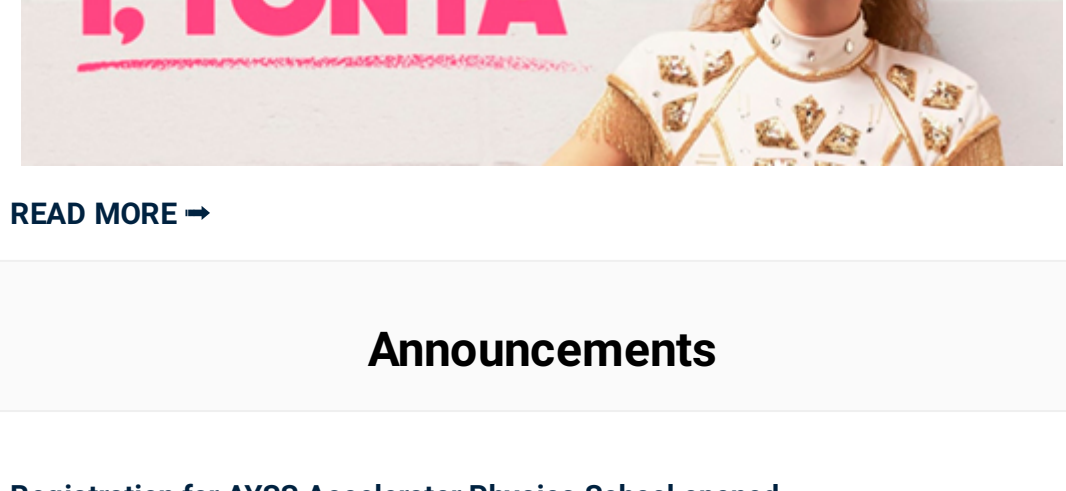
On 5 June, on the World Environment Day, a 24-hour online marathon took place within the International Year of Basic Sciences for Sustainable Development. JINR scientists participated in it. They spoke about nuclear methods in ecological studies, proton therapy, the Baikal-GVD Project, quark-gluon plasma, and superheavy elements.

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Education

Young scientists from South Africa started their practice at JINR

On 7 June, the second stage of the International Student Practice of the JINR University Centre started at JINR. 28 young scientists from the Republic of South Africa came to participate in the practice. The highlight of the event is that nine students, which is a third of all those who came, chose the UC Engineering Workshop as a project.



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Three-week practice of students from Egypt at JINR completed

The first stage of the Student Practice of the JINR University Centre finished at JINR. During the first week of the Practice, 22 students and young scientists attended lectures on research and facilities at JINR, after that, they worked on their own projects in the laboratories for two weeks.



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Results of Interschool Physics and Mathematics Open Classroom

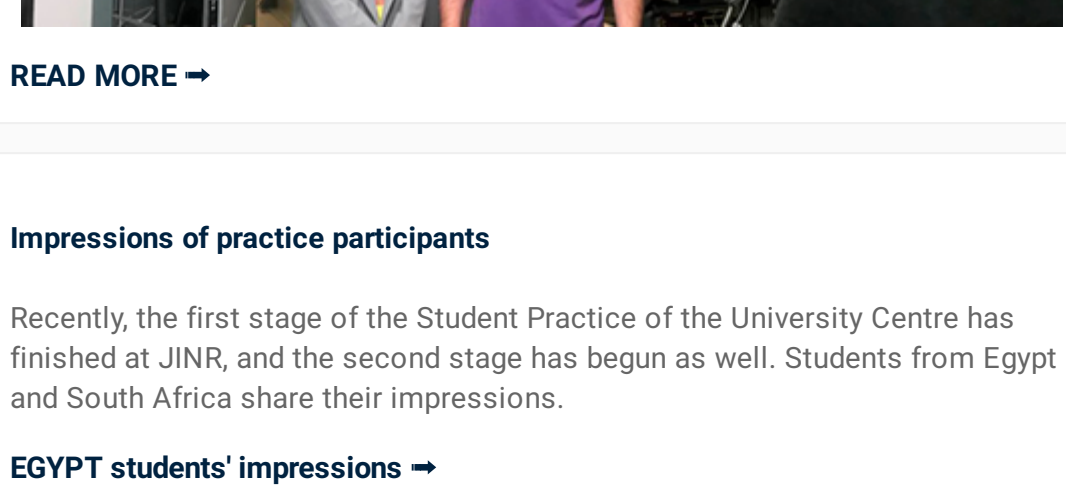
The 20th City Interschool Physics and Mathematics Open Classroom finished. At the end of the programme, an Olympiad was held for 50 schoolchildren. The jury noted the works of three winners and nine prize-winners. The schoolchildren were presented with "Kvantik" Journals and gifts from UC JINR, which supports the work of the additional course.

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JINR Community

Science Through the Looking Glass Exhibition opened

The Science Through the Looking Glass photo exhibition was festively opened on the embankment of Dubna on 3 June. In addition to exploring Mark Kozhura's photographs, guests of the event had an opportunity to be the first sightseers accompanied by an audio guide around Dubna, presented by Teleset company.



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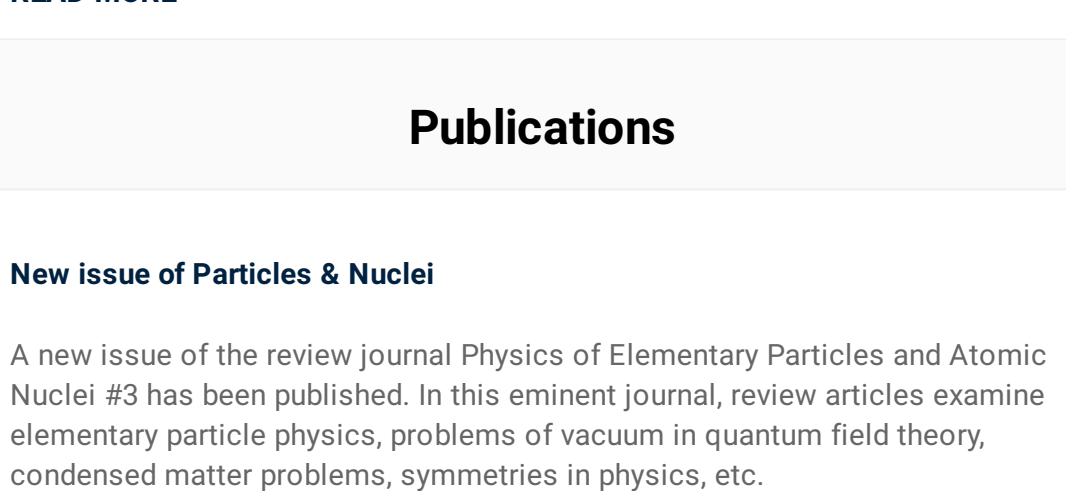
Digest of main AYSO events

AYSO has published a digest of the main events and results of its activities for April-May 2023. Young scientists and specialists spoke about the seminars and the work of the clubs. In 2 months, they elected a new Chairman of the Council, held 2 meetings, participated in a scientific societies meeting, and much more.

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JINR Cinema Club

This Friday, on 9 June, at 6:00 PM, you can watch a biographical film "I, Tonya" (2017). All are kindly invited! Please note that the JINR Cinema Club returns to the JINR Scientists' Club!



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Announcements

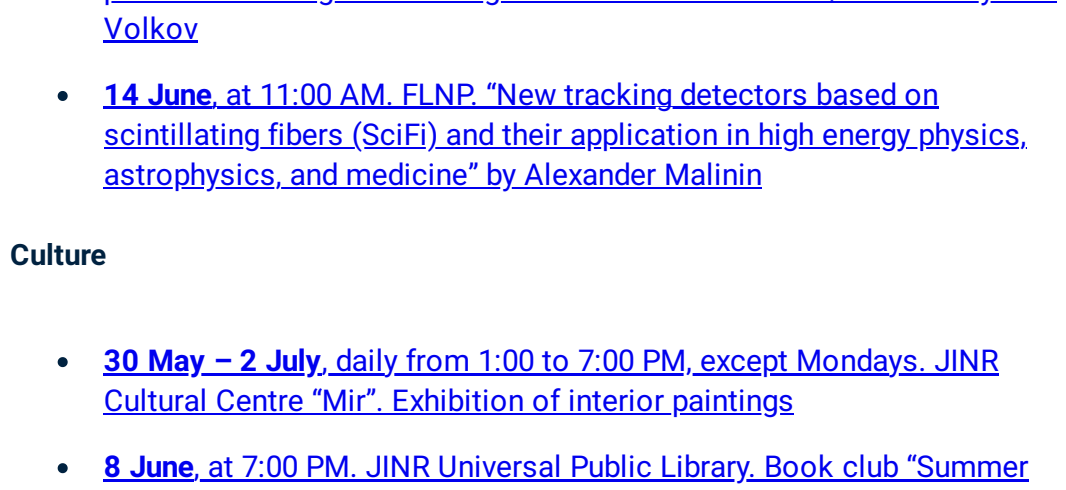
Registration for AYSO Accelerator Physics School opened

The School will take place from 19 to 23 June at the "Lipnya" JINR Tourist Base. Project participants will learn about the goals, tasks, structure, opportunities, history, and the main systems of the NICA Complex. The programme also includes lectures on linear accelerators, synchrotrons, colliders and their operation. Applications are welcome until 11 June.

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Baikal Summer School invites participants

Registration for the XXIII Baikal Summer School on Physics of Elementary Particles and Astrophysics opened. The School will take place from 11 to 18 July in the village of Bolshie Koty on the shore of Baikal. Participants will attend lectures on neutrino physics, cosmology, astrophysics, accelerator and reactor neutrinos, statistical methods of data analysis, and much more. Applications are welcome until 16 June.



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Announcement by CPED JINR about switch to direct agreements

CPED JINR has published a list of 22 houses, whose owners and tenants will switch to direct agreements starting from 1 July. It means that payments for heating, hot and cold water supply, and sanitation will be included in a unified payment document by "Information and Settlement Centre "Dubna" LLC.

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Media

Interview with JINR Scientific Leader Victor Matveev

The third part of an interview "Family. Start of work at INR" with JINR Scientific Leader Victor Matveev has been issued. He spoke about the first meeting with his future wife, the establishment of the Young Theorists' School, working at INR, and much more!

[WATCH →](#)

Filming at FLNR

Today, a science popular series of documentaries High Technologies. Past, Present, Future was filmed at FLNR. The film with lab's scientists will be dedicated to the developments in the field of new matters and materials. Yuri Oganesian, Alexander Karpov, Andrey Protasov were filmed.

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Filming at VBLHEP

On 6 June, a coverage for the "Obnmazoro" project was filmed at VBLHEP. The coverage will be about the opportunities that students from the University "Dubna" can gain from working at JINR. A Dubna university graduate and VBLHEP senior engineer Ilya Shirikov spoke about his work on the NICA Megascience Project, for which he develops electronics.

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Impressions of practice participants

Recently, the first stage of the Student Practice of the University Centre has finished at JINR, and the second stage has begun as well. Students from Egypt and South Africa share their impressions.

[EGYPT students' Impressions →](#)

[SOUTH AFRICA students' Impressions →](#)

Video about Seminar on Interaction of Neutrons with Nuclei

The 29th International Seminar on Interaction of Neutrons with Nuclei (ISINN-29) finished on 2 June. We kindly invite you to watch a video to learn more about it!

[WATCH →](#)

Archimedes Swimming Pool of JINR turns 52 years old

In honour of this celebration, archival photographs of "Archimedes" were published.

[INSTALLATION of a rod system for the building →](#)

[CONSTRUCTION process from the Volga River side →](#)

[CLEAN-UP EVENT on the Archimedes roof →](#)

JINR Weekly Newspaper issued

A new issue of the JINR Weekly Newspaper #21 has been published. Please note that you can read an English version on the JINR Newspaper's website.

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Publications

New issue of Particles & Nuclei

A new issue of the review journal Physics of Elementary Particles and Atomic Nuclei #3 has been published. In this eminent journal, review articles examine elementary particle physics, problems of vacuum in quantum field theory, condensed matter problems, symmetries in physics, etc.

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Sports

Moscow Region team took the first place in overall standings at International Spartakiad of Sports Veterans in Minsk

The team included an instructor of the JINR Sports Complex, Dubna's competition judge Inna Tikhomirova. She won a gold medal in table tennis and brought points to the team. Inna Tikhomirova is a European champion, European and Russian veteran champion, and an USSR champion in individual, paired, and mixed categories.

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Upcoming Events

Advisory Bodies

- [15 – 16 June, 57th Meeting of the Programme Advisory Committee for Condensed Matter Physics, JINR International Conference Centre, Dubna](#)

Conferences

- [4 – 11 June, XII Conference of Young Scientists and Specialists \(Alushta-2023\), Resort Hotel "Dubna", Alushta](#)
- [14 – 17 June, Scientific school "Computer technologies for scientific and applied tasks – CTST-2023", North Ossetian State University, Vladikavkaz](#)
- [14 – 17 June, NICA-MPD/IT Seminar on China-Russia Cooperation, Wuhan, China](#)

Practices

- [7 – 23 June, International Students Practice, Stage 2 \(South Africa\), JINR, Dubna](#)

Seminars

- [8 June, at 3:30 PM, FLNR, "High-precision mass measurement of heavy and super-heavy elements" by Lubosh Kouze and "Status of ACCULINNA-2 fragment separator and preparation of experiments with radioactive beams" by Alexander Gorshkov](#)
- [9 June, at 11:30 AM, VBLHEP, "Analysing power of quasi-elastic proton-proton scattering at the energies from 200 to 650 MeV/nucleon" by Ivan Volkov](#)
- [14 June, at 11:00 AM, FLNP, "New tracking detectors based on scintillating fibers \(SciFi\) and their application in high energy physics, astrophysics, and medicine" by Alexander Malinin](#)

Culture

- [30 May – 2 July, daily from 1:00 to 7:00 PM, except Mondays, JINR Cultural Centre "Mir", Exhibition of interior paintings](#)
- [8 June, at 7:00 PM, JINR Universal Public Library, Book club "Summer Reading List", discussing a book "Invitation to a Beheading" by Vladimir Nabokov](#)
- [8 June, 7:00 PM, JINR Universal Public Library, Open lesson on stage improvisation](#)
- [9 June, 6:00 PM, JINR Universal Public Library, English speaking club](#)
- [9 June, at 6:00 PM, JINR Scientists' Club, JINR Cinema Club](#)
- [9 June, 6:30 PM, JINR Universal Public Library, Dubna intellectual games' club](#)
- [10 June, 12:00 PM, JINR Cultural Centre "Mir", Dubna cosplay festival "AtomObsCon – 2023"](#)
- [13 June, 12:00 PM, JINR Universal Public Library, Genealogical club's meeting](#)
- [15 June, at 7:00 PM, JINR Universal Public Library, Book club "Hairpin", discussing a book "Rebecca" by Daphne du Maurier](#)
- [15 June, 3:00 PM, JINR Cultural Centre "Mir", Gagarin Cup in Dubna](#)
- [15 June, 7:00 PM, JINR Cultural Centre "Mir", Concert "Duo & Trio"](#)

[ALL JINR EVENTS →](#)