



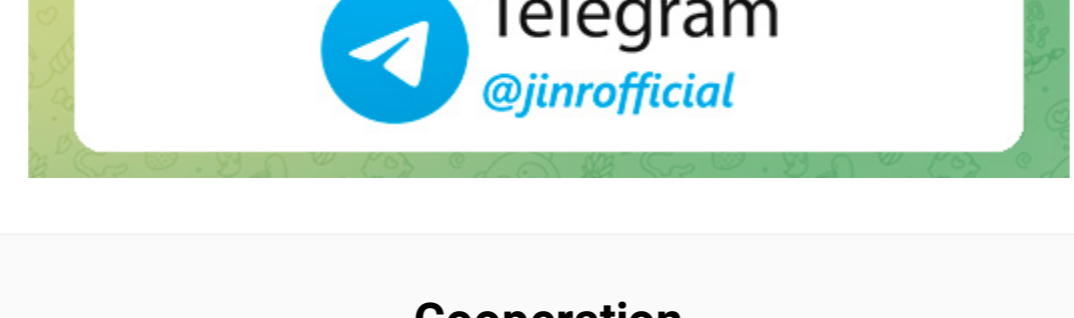
## JINR Newsletter #16, 27 April 2023

Dear colleagues and friends,

These days are full of events in the field of the JINR international cooperation. Among them are the visit of the Chairman of the Egyptian Atomic Energy Authority, the JEMS-22 Training Programme, the anniversary conference in Yerevan, as well as JINR's participation in the development of scientific cooperation between Russia and India.

Today, JINR celebrates the national holiday of South Africa, the Freedom Day. In this issue of the JINR Newsletter read also about the results of the expedition to Lake Baikal, participation in the JUNO project, and much more.

JINR Press Office



### Cooperation

#### JINR and Egyptian Atomic Energy Authority strengthen ties

On 24 April, Professor Amr El-hag Ali, Chairman of the Egyptian Atomic Energy Authority (EAEA) and Member of the JINR Scientific Council, arrived at the Joint Institute at the invitation of the JINR Directorate. During the meeting at the Directorate of the Institute, the parties noted neutron studies and reactor technologies as the fields of mutual interest.



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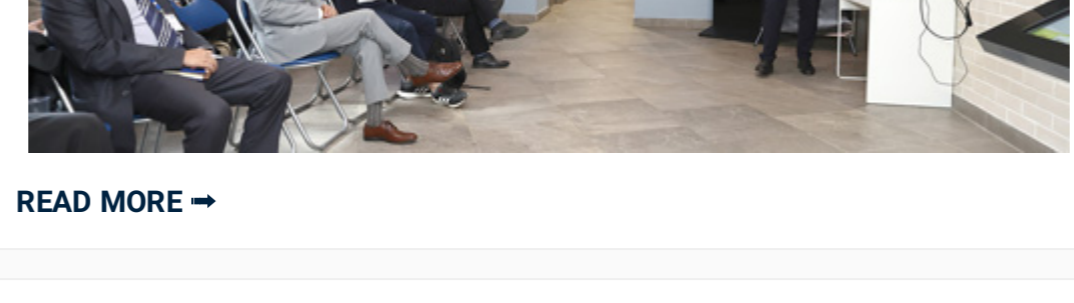
#### New Delhi meeting discusses expansion of JINR-India cooperation

The 24th meeting of the Russian-Indian Intergovernmental Commission on Trade, Economic, Science and Technological, and Cultural Cooperation held in New Delhi also discussed the cooperation between Russia and India in the field of science. Meeting participants noted the increased cooperation of Indian scientists with the Joint Institute.

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#### JEMS-22 Training Programme started at JINR

On 24 April, the 22nd international training programme for decision-makers in science and international scientific cooperation "JINR Expertise for Member States and Partner Countries" started. Heads and specialists of national research and educational organizations from Egypt, Russia, South Africa, Vietnam are participants of JEMS-22.



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#### Visit of the Dubna SCC delegation to JINR

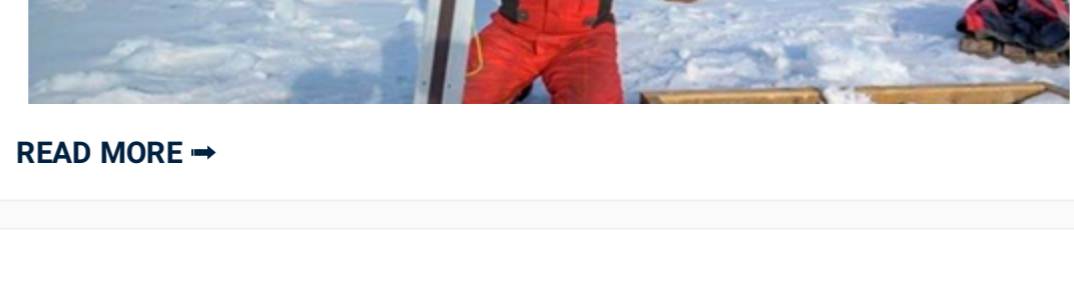
On 19 April, the Meshcheryakov Laboratory of Information Technologies hosted specialists of the Dubna Satellite Communications Center (SCC), the largest teleport in Russia and Eastern Europe. Specialists of the Dubna SCC visited the museum of computer technology and saw the Govorun Supercomputer. In addition, they had a tour of VBLHEP.

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### Research

#### Baikal telescope exceeded volume of half a cubic kilometer according to results of expedition 2023

The Baikal-GVD collaboration installed two new telescope clusters, repaired and upgraded the detector elements already installed. The collaboration continued work on the development of the data transmission system via optical lines inside the facility.



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#### JINR development for JUNO detector in China

Specialists of the Laboratory of Nuclear Problems JINR designed and tested magnetic shielding screens for large photoelectron multipliers from the Earth's magnetic field. The development will be used in the OSIRIS Facility designed to monitor the radiation purity of the JUNO detector liquid scintillator in China.

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#### Creation of a site to manufacture thermal neutron detectors at JINR

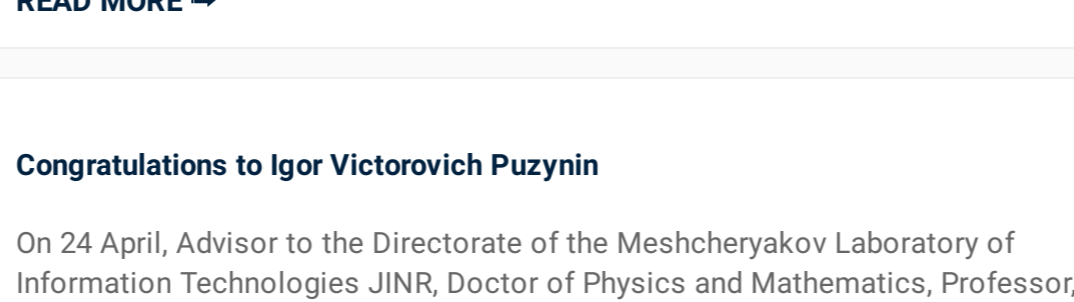
At the end of this year, the Frank Laboratory of Neutron Physics will present new thermal neutron detectors based on the boron carbide converter. An experimental site for their development is almost finished.

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### Celebrating anniversaries

#### "Yuri Tsolakovich exemplifies the best attitude to science"

On 21 April, JINR hosted a festive seminar dedicated to the 90th jubilee of Scientific Leader of the Laboratory of Nuclear Reactions RAS Academician Yuri Oganessian. Academician Oganessian accepted congratulations from the staff of the Joint Institute and leaders of Dubna and received many gifts.



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#### Congratulations to Igor Victorovich Puzynin

On 24 April, Advisor to the Directorate of the Meshcheryakov Laboratory of Information Technologies JINR, Doctor of Physics and Mathematics, Professor, Honoured Scientist of the Russian Federation Igor Puzynin turned 85.

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### Conferences

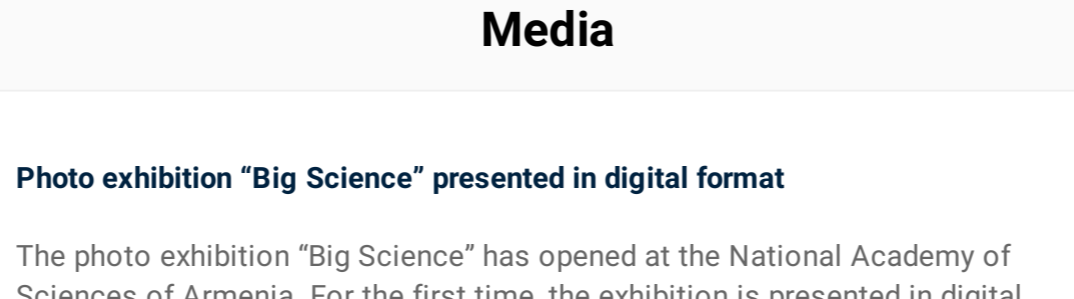
#### International conference "Heaviest nuclei and atoms" in Yerevan

The conference started on 26 April at the National Academy of Sciences of the Republic of Armenia. The event is dedicated to the 90th anniversary of the world-famous scientist, FLNR Scientific Leader Yuri Oganessian. The anniversary conference brought together prominent scientists from the world leading universities and research centres.

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#### SPD Collaboration meeting: collaboration enters new development phase

On 24 - 27 April, the fourth meeting of the SPD Collaboration is taking place at the Laboratory of High Energy Physics. Participants of the Collaboration are discussing results and the future physical programme of the experiment. The approval of the first version of the technical design report of the SPD experiment is one of the main achievements of the Collaboration.

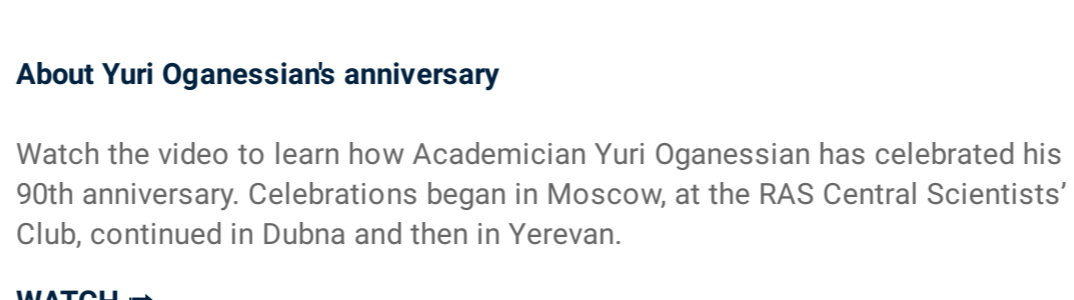


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### Media

#### Photo exhibition "Big Science" presented in digital format

The photo exhibition "Big Science" has opened at the National Academy of Sciences of Armenia. For the first time, the exhibition is presented in digital format! The exhibition of works by a photographer Mark Kozhura is taking place on the eve of the start of the international conference "Heaviest nuclei and atoms".



WATCH →

#### About Yuri Oganessian's anniversary

Watch the video to learn how Academician Yuri Oganessian has celebrated his 90th anniversary. Celebrations began in Moscow, at the RAS Central Scientists' Club, continued in Dubna and then in Yerevan.

WATCH →

#### Filming at VBLHEP

At the Veksler and Baldin Laboratory of High Energy Physics, the Alonta Film TV company has recently filmed a coverage about the winner of the International Physics Olympiad Daniil Rynkevich. The coverage will become a part of the documentary series about winners of the International School Subjects Olympiads "Faster! Higher! Smarter!"

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#### DLNP seminar recording

We kindly invite you to watch the record of the DLNP seminar "Status of the linear accelerator of the SKIF injector" by Alexey Levicev (Budker Institute of Nuclear Physics, Novosibirsk).

WATCH →

### Publications

#### The CMS Muon System

The JINR Publishing Department has released a preprint "The CMS Muon System" P13-2023-3. The author is Viktor Pereilygin.

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### Announcements

#### Registration for "Element 105" Workshop at Summer School opened

The JINR workshop will last from 6 to 16 July at the Summer School 2023 at the Volga Camp. Participants will listen to a range of lectures on physics, biophysics, and radiobiology, visit the advanced research facilities at JINR laboratories, and meet scientists of the Institute. You can apply for participation until 20 May.

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#### Announcement of a change in payment for housing and communal services

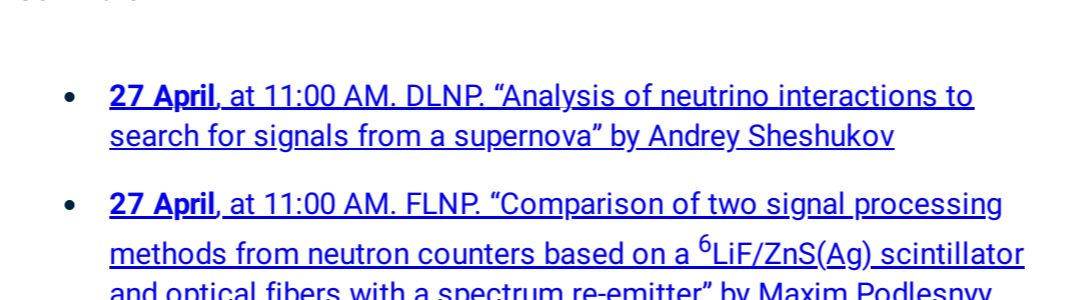
The Department of Chief in Charge Engineer JINR has published changes on the organization of utility payments for owners and tenants of residential premises in apartment buildings. You can find the list of addresses below.

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### Sports

#### Track and field run

On 22 April, the track and field run in the memory of L. N. Yakutin was held. Employees of the Institute took part in the run and became winners.



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### Upcoming Events

#### Conferences

- **24 - 27 April.** SPD collaboration meeting, Veksler and Baldin Laboratory of High Energy Physics, JINR, Dubna
- **24 - 28 April.** 22nd JINR Training Course "JINR Expertise for Member States and Partner Countries" (JEMS-22), JINR Laboratories, Dubna
- **25 - 30 April.** IUPAP Conference "Heaviest nuclei and atoms", National Academy of Sciences of the Republic of Armenia, Yerevan

#### Seminars

- **27 April, at 11:00 AM.** DLNP, "Analysis of neutrino interactions to search for signals from a supernova" by Andrey Sheshukov
- **27 April, at 11:00 AM.** FLNP, "Comparison of two signal processing methods from neutron counters based on a <sup>41</sup>LiFZnS(Ag) scintillator and optical fibers with a spectrum re-emitter" by Maxim Podlesnyy
- **28 April, at 3:00 PM.** MLIT, "Development of numerical methods for solving problems of quantum mechanics based on the synthesis of stochastic and deterministic approaches" by Artem Danshin
- **3 May, at 11:00 AM.** VBLHEP, "One track and two tracks events in the scintillation wall as part of the data analysis of 2022 SRC run at BM@N" by Sergey Nepochatykh

#### Culture

- **27 March - 10 May,** from Monday to Friday from 11:00 AM to 8:00 PM, and on Saturday from 12:00 PM to 6:00 PM, JINR Universal Public Library, Exhibition "Theatre's colour"
- **27 April, at 6:30 PM.** JINR Universal Public Library, Travel Lecture
- **27 April, at 7:00 PM.** JINR Universal Public Library, Book club "Summer Reading List", discussing a book "Suitcase" by Sergei Dovlatov
- **28 April, at 6:00 PM.** JINR Universal Public Library, "Talkative" English speaking club
- **28 April, at 6:30 PM.** JINR Universal Public Library, Performance "Mirror"
- **29 April, at 4:00 PM.** JINR Universal Public Library, Bibliobright 2023
- **30 April, at 3:00 PM.** JINR Universal Public Library, Spring concert by the dance troupe "Fantasia"
- **4 May, at 7:00 PM.** JINR Universal Public Library, Book club "Hairpin", discussing a book "Silkworm" by Robert Galbraith

#### For Kids

- **26 April, at 6:00 PM.** JINR Universal Public Library, English club for children
- **28 April, at 6:30 PM.** JINR Universal Public Library, Growing up from "Let's READers"

#### Sports

- **27 April, at 5:30 PM.** JINR Sports Club, Kettlebell lifting competition

ALL JINR EVENTS →