



JINR Newsletter #4, 14 April 2022

Dear colleagues and friends!

"It takes tremendous courage to offer constructing such a machine," these are the words by Niels Bohr who saw the JINR's Synchrophasotron. 65 years ago, in the young international scientific centre in Dubna, scientists overcame the world limit of accelerator energy. This facility gained a power of 10 gigaelectronvolts that was cosmic for that time.

The international family of JINR upholds the traditions of the ambitious scientific agenda not only in particle physics, but also in other fields, including the space sphere.

The International Day of Human Space Flight gives a special mood: we are fascinated to realise how much is unknown around us in the vast Universe. To celebrate this day, JINR will present its studies at the space lecture series of Zaryadye park in Moscow.

However, popular science lectures by researchers are not the only opportunity to talk simply about complex things. What about physics in comics? Read about this and much more in our Newsletter.

JINR Press Office



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Information of JINR Directorate on current situation

Please, get acquainted with an official information of the Directorate of the Joint Institute for Nuclear Research on the current situation. Latest update: 7 April 2022.

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Happy Birthday, Mr. Synchrophasotron!

Seminar "Synchrophasotron turns 65" in JINR Museum

The Museum of History of Science and Technology of JINR hosted a historical and scientific seminar "Synchrophasotron turns 65".



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VBLHEP seminar to 65th anniversary of Synchrophasotron's launch

On Friday, 15 April, the Laboratory of High Energy Physics invites to a seminar dedicated to the 65th anniversary of the launch of the Synchrophasotron.

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Research

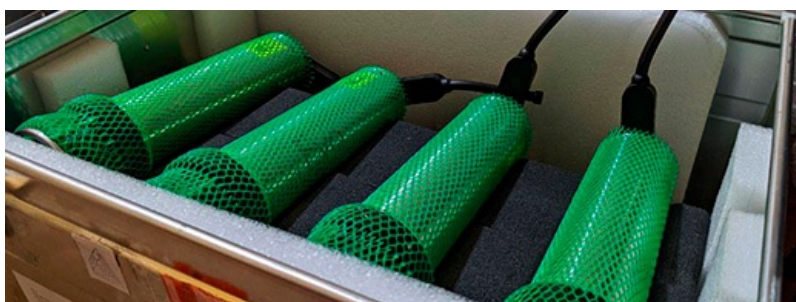
There is Silver to Be Found

Staff members of the Laboratory of Neutron Physics JINR together with colleagues from the Institute of Microbiology and Biotechnology (Chişinău, Moldova) are studying the metal nanoparticles toxicity for animals.

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Baikal news

A regular expedition on the construction of the Baikal-GVD deep-underwater neutrino telescope is close to completion. Acoustic modems have been delivered to Lake Baikal. Without them, it would have been impossible to assemble the 10th cluster and two new experimental strings of the future 11th cluster.



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Visits

JINR delegation visiting National Academy of Sciences of Armenia

On 14 April — 16 April, the JINR delegation is having a working visit to Yerevan, the National Academy of Sciences of the Republic of Armenia. During the visit, a number of high-level meetings are planned to discuss the development of scientific cooperation. More details in the following issues of the JINR Newsletter and on the JINR website.



JINR expands cooperation with NArFU

On 5 – 6 April, representatives of the Northern (Arctic) Federal University named after M.V. Lomonosov (Arkhangelsk) visited the Joint Institute for Nuclear Research.

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“Kvantorium” students visiting LIT

On 8 April 2022, students of the children's technopark "Kvantorium" from Balashikha visited the Laboratory of Information Technologies n.a. M.G. Meshcheryakov. LIT researcher Igor Pelevanyuk introduced the children to the directions of the Laboratory's activities.

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People of JINR

Yuri Oganessian turns 89!

On 14 April, we congratulate Yuri Tsolakovich Oganessian on his birthday. He is our pride, living legend, discoverer of heavy elements of the Periodic Table, one of which – element 118 – was named after the scientist.

This is young Yuri Oganessian (in the middle) in a unique photo of the late 50s. Yuri Tsolakovich has never seen this photo before. Today it has become a birthday gift from a member of the JINR Scientific Council Armen Nersesyan.



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Journal Club started working at Laboratory of Theoretical Physics

In February of this year, the Journal Club was opened at the Laboratory of Theoretical Physics JINR. A BLTP senior researcher Chitta Ranjan Das (India) chairs the Club. The organisers and participants explain what it is and how it works. We remind you that the Journal Club takes place every Monday at 11:00 AM in BLTP (with a broadcast on Zoom).

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Education

Egyptian youth: "Feeling great in big JINR family"

On 24 March, a Practice for students and young scientists from the Arab Republic of Egypt at the Joint Institute for Nuclear Research, the first International Student Practice organised by the JINR University Centre after a break caused by pandemic restrictions, was concluded.



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Results of the Hackathon qualifying tournament

On 5 - 7 April 2022, the qualifying stage of the fifth Technical Hackathon "Dubna-2022" for school students was held in the Physics and Mathematics Lyceum n.a. Kadyshesky.

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Enrolment at VI Summer School "Physics. Mathematics. IT" started

The University "Dubna" and the Joint Institute for Nuclear Research have announced a competition for the participation in the next session of the VI Summer School "Physics. Mathematics. IT". The Summer School will be held from 29 June to 9 July 2022 in the State University "Dubna".

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Media

Science in comics

A bright joint project of DLNP JINR and the Komikadze artel is a comics about the study of the resistance to cosmic radiation. DLNP geneticists are experimenting with a mutation that can create a natural defence against

radiation in the body. Microscopic animals tardigrades have the right gene. With the help of this gene, scientists modify fruit flies.



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JINR scientists at Space Week in Zaryadye Park

On 16 April, a senior researcher of DLNP JINR Mark Shirchenko and a researcher of LRB JINR Yuri Severyukhin will perform within a lecture series dedicated to space in Zaryadye Park. The event will be held on 12 – 16 April as part of the week dedicated to Cosmonautics Day.

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JINR Weekly Newspaper issued

New issue of the JINR Weekly Newspaper #14 has been published. Please note that you can read an English version on the JINR Newspaper's website.

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Announcements

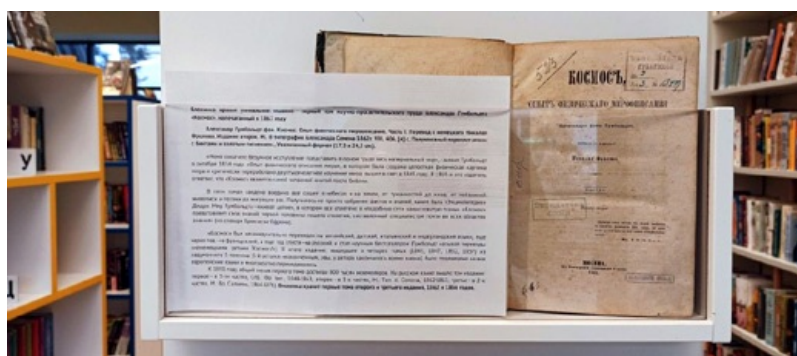
Competition for Awards of Governor of Moscow region

The Ministry of Investments and Innovations of the Moscow region has announced a competition for awards of the Governor of the Moscow region in the fields of science, technologies, engineering, and innovations for commercialization of scientific and (or) scientific and technical results in 2022.

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Tip for International Day of Human Space Flight

Please note that in the section for adult readers of Blokhinka, you can get acquainted with a unique publication — the first volume of Alexander Humboldt's popular science work "Cosmos: A Sketch of a Physical Description of the Universe" 1862 edition.



Upcoming Events

Advisory Bodies

- [20 April 2022. JINR Science and Technology Council](#)

Seminars

- [14 April 2022](#), at 03:00 PM. Seminar dedicated to jubilees of V. I. Bodnarchuk and M. V. Avdeev
- [15 April 2022](#), at 2:30 PM. "On decay widths of giant dipole resonances in the lead region" by Rashid Nazmitdinov
- [15 April 2022](#), at 9:30 AM. Seminar dedicated to the 65th anniversary of the launch of the Synchrophasotron.
- [18 April 2022](#), at 11:00 AM. Blokhintsev lecture hall (4th floor), Bogoliubov Laboratory of Theoretical Physics. BLTP Journal Club
- [18 April 2022](#), at 3:30 PM. "Statistical description for relativistic hadron systems in proton-proton and heavy ion collisions" by A. S. Parvan
- [19 April 2022](#), at 10:00 AM. "Complementary currencies as a factor of stabilization of local economies" by L. A. Shiryeva
- [19 April 2022](#), at 4:00 PM. "Stationary and non-stationary generalized TASEP in KPZ and jamming regimes" by A. E. Derbyshev
- [20 April 2022](#), at 10:00 AM. "Method for the pairwise processing of elements in data arrays for many-task computing in a hybrid cloud" by I. V. Bobyleva
- [20 April 2022](#), at 11:00 AM. "From genetic research to genome-wide sequencing of new generation in radiation genetics" by I. D. Alexandrov
- [20 April 2022](#), at 3:00 PM. "Dispersion chain of Vlasov equations and conservation laws" by E. E. Perepelkin
- [21 April 2022](#), at 10:00 AM. Memorial seminar dedicated to the 100th anniversary of I. M. Matora

Culture

- [15 April 2022](#), at 7:00 PM. Concert "Echo of love" by a duet "Romance". Performers: Igor Yarovoy, Elena Chudina, Georgy Chuburkov (guitar), Mark Dzhakupov (cello)
- [17 April 2022](#), at 6:00 PM. Mono-opera "Human voice". the Opera studio theatre of the Gnesin Russian Academy of Music. Performers: Anna Shcherbakova (soprano), Dmitry Norbutas (piano)
- [20 April 2022](#), at 7:00 PM. Concert of the cycle "Acquaintance through music. Musical heritage of the JINR Member States". Soloists are Sergey Pospelov (violin) and Margarita Pospelova (piano)
- [21 April 2022](#), at 7:00 PM. Three novels about love and ballet. Novels to be presented: "Anna Pavlova and Victor Dandr ", "Circles of Vatslav Nijinsky", "Ekaterina Maksimova and Vladimir Vasilyev". The films will be shown by the studio "Fishka film", producer – Irina Vasilyeva (Moscow). The head of the "Dance theatre" Olga Galinskaya (Dubna) will answer any questions about ballet
- [21 April 2022](#), at 7:00 PM. Meeting of the book club "Shpilka": discussing the book "The Guernsey Literary and Potato Peel Pie Society" by Mary Ann Shaffer and Annie Barrows
- [22 April 2022](#), at 7:00 PM. JINR Scientists' Club invites to a concert "Music of old Vienna"

- [23 April 2022](#), at 11:00 AM until 6:30 PM. The 4th Festival of Dubna's theater groups "Kaleidoscope"

For Kids

- [14 April 2022](#), at 7:00 PM. Blokhinka. Book club "Summer Reading List"
- [15 April 2022](#), at 6:00 PM. Blokhinka. Board game meeting
- [16 April 2022](#), at 11:00 AM and 5:00 PM. A concert by youngest performers within the framework of the festival "First steps in the arts"
- [16 April 2022](#), at 5:00 PM and 6:00 PM. Family book gatherings "Pochitayka" and a meeting of "Soviki"

ALL JINR EVENTS →

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