



JINR Newsletter #39, 22 December 2022

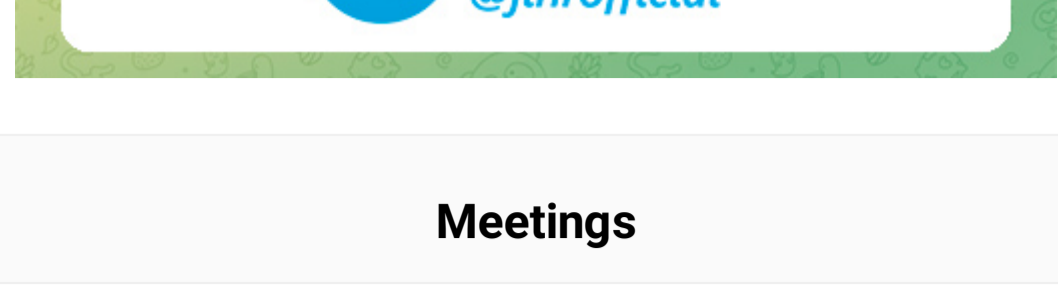
Dear colleagues and friends,

The end of the year at JINR turned out to be rich in signs of recognition of the achievements by JINR scientists. The winner of the first Sber Scientific Prize was FLNR Scientific Leader, RAS Academician Yuri Oganessian.

We will tell you how the meeting of theorists and experimenters implementing the NICA Megascience Project has been held, as well as where else JINR inclinometers have been installed.

We kindly invite you to take a break from annual reports and preparations for the holidays at a couple of interesting JINR exhibitions. Or just watch a wonderful movie with the JINR Cinema Club. Discover many other exciting things in the fresh issue of the JINR Newsletter!

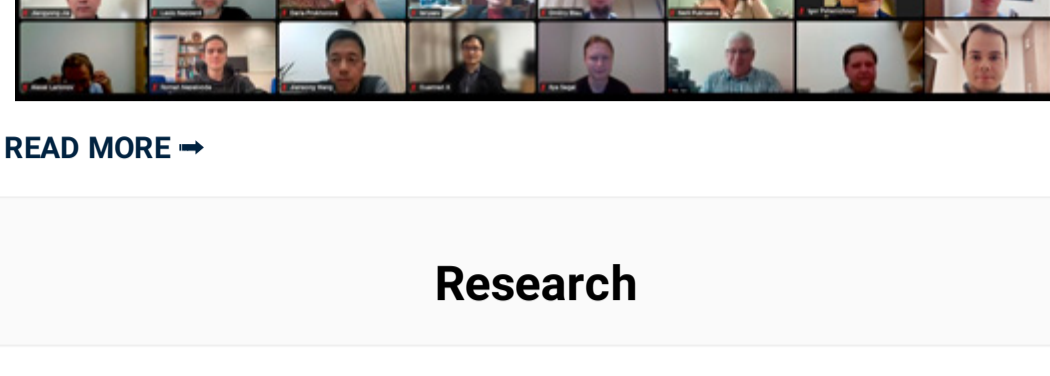
JINR Press Office



Meetings

International experts discussed NICA Project

An international online seminar on methods of data analysis and processing in experiments at the NICA Accelerator Complex (NICA-2022) was held on 13–15 December 2022. It was organized jointly by NRNU MEPhI and JINR. The event was unique in its format since it brought together theoreticians and experimentalists involved in the data analysis and in the preparation of new experiments, namely BM@N and MPP.



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Research

JINR compact precision laser inclinometer installed in Kamchatka

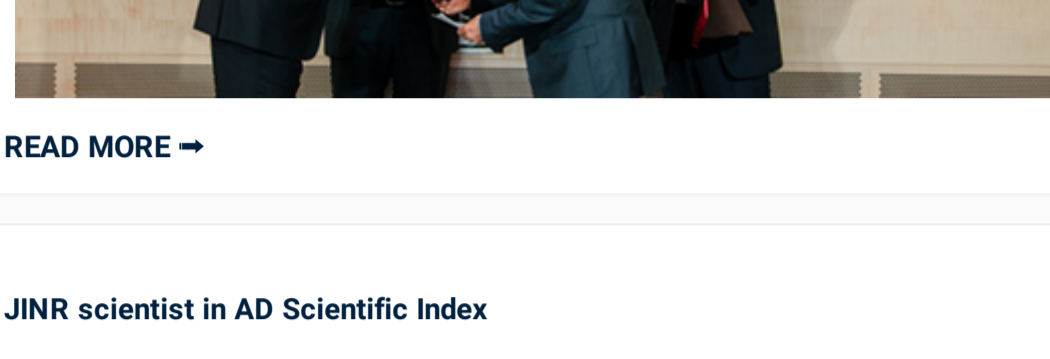
In early December, JINR specialists installed a compact precision laser inclinometer in Petropavlovsk-Kamchatsky. This will make it possible to register seismic activity and predict volcanic activity in the region.

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Awards

Yuri Oganessian became first laureate of Sber Scientific Prize

On 14 December, FLNR JINR Scientific Leader, RAS Academician Yuri Oganessian won the Prize for his fundamental work on the synthesis of superheavy elements and contribution to the formation of the accelerator experimental basis. He is going to use the Prize to establish a fund supporting scientists, especially young ones.



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JINR scientist in AD Scientific Index

A DLNP JINR senior researcher Fedor Prokoshin was ranked first among Russian scientists in the AD Scientific Index. The AD Scientific Index aims to analyse studies conducted by countries, universities, scientific institutes, and scientists using various criteria. Thus, it evaluates the efficiency of particular researchers and organizations.

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Interview with winners of DLNP Scholarships

A DLNP JINR researcher Nadezhda Rumyantseva won the Bruno Pontecorvo Scholarship, and a DLNP researcher Igor Zhitnikov got the V. P. Dzhelepov Scholarship. They commented on their work, the experiments in which they participate, and their plans.

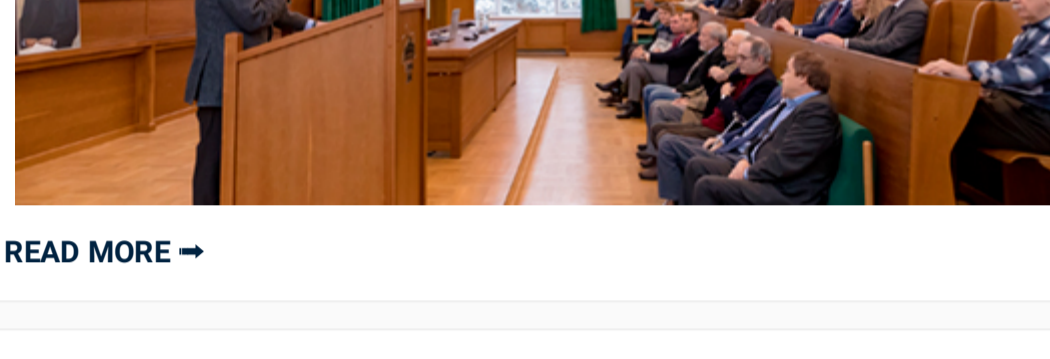
[READ interview with Nadezhda Rumyantseva →](#)

[READ interview with Igor Zhitnikov →](#)

Recalling founders

"He was a star of the team": at BLTP seminar on anniversary of birth of Vladimir Kadyshevsky

On 15 December, a seminar dedicated to the 85th anniversary of the birth of an outstanding theoretical physicist and organizer of science, Director of the Joint Institute (1992-2005), RAS Academician Vladimir Kadyshevsky was held at the Laboratory of Theoretical Physics JINR. Participants of the seminar listened to reports on the topics of academic interests of Academician Kadyshevsky.



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Václav Votruba

On 19 December, the Joint Institute for Nuclear Research pays tribute to the memory of an outstanding Czechoslovak theoretical physicist Václav Votruba, one of the two first Vice-Directors of JINR. Václav Votruba devoted his research to nuclear physics, quantum field theory, elementary particle physics, symmetry in elementary particle theory, and quantum electrodynamics.

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Albert Tavkhelidze

On 16 December, the Joint Institute for Nuclear Research celebrates the birthday of a world-famous theoretical physicist, Doctor of Physics and Mathematics, Professor, RAS Academician Albert Tavkhelidze. The area of his scientific interests included quantum field theory and elementary particle physics.

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Celebration

Sergo Gerasimov turned 85!

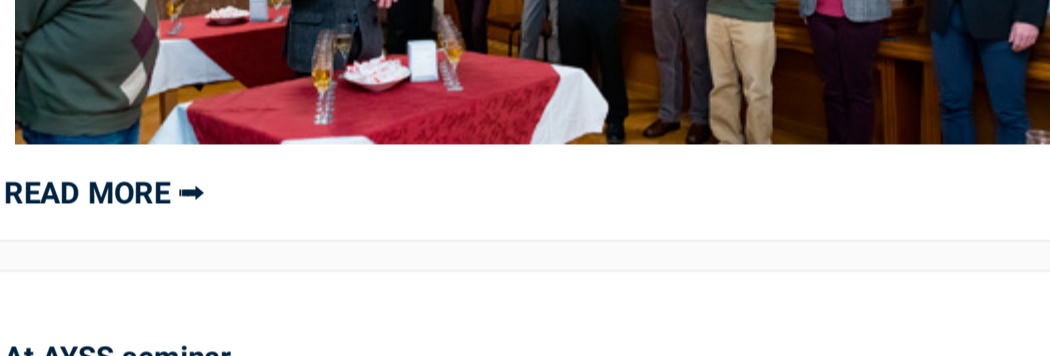
On 20 December, Sergo Gerasimov, a chief researcher of the Laboratory of Theoretical Physics JINR, Doctor of Physics and Mathematics, an outstanding Russian theoretical physicist, turned 85. Sergo Borisovich is a recognised expert in the most difficult questions of the modern particle physics. For many years, he has been a member of the Dissertation and Science and Technology Councils of JINR and BLTP.

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JINR Community

Laboratory of Theoretical Physics embodied in faces

On 20 December, a photo gallery dedicated to the scientists who connected their professional path with the Laboratory of Theoretical Physics JINR opened. The photos in chronological order show more than 60-year history of the Laboratory embodied in faces. The main thing that organizers of the exhibition wanted to show is people who have started and continue creating the BLTP's history.



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At AYSS seminar

On 15 December, an AYSS seminar was held at the hall of the JINR Scientists' Club, at which Igor Lensky, Head of the Innovations and Intellectual Property Department, delivered a report "IIPD: invitation to work together". He spoke about innovations at JINR and plans for the future.

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Exhibition by JINR Artists' Club

On 22 December, at 6:00 PM, an opening of a new exhibition by the JINR Artists' Club "Quark" called "Temporary Permafrost" will take place at the JINR Cultural Centre "Mir". The exhibition is based on the fairy tale "The Snow Queen" by Hans Christian Andersen and will be opened until 22 January 2023.

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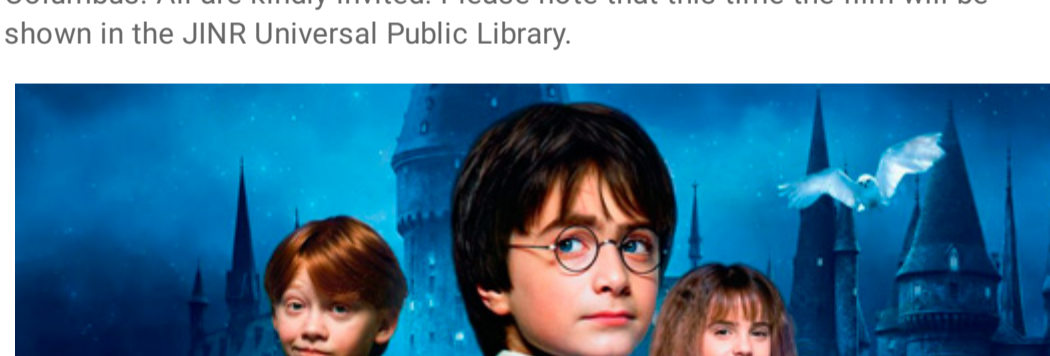
New AYSS seminar

The Association of Young Scientists and Specialists of JINR invites you to a new seminar at the JINR Scientists' Club! On 22 December, a BLTP JINR leading researcher Vladimir Melezhik will deliver a report "About the Academician V. L. Ginzburg's list of the most important problems of physics". He will speak not only about the list of important problems, but also about the contribution of Dubna scientists to the solution of them. NB: the seminar starts at 3:00 PM!

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JINR Cinema Club

This Friday, on 23 December, you can enjoy watching an exciting film, the beginning of one of the largest film franchises of the XXI century "Harry Potter and the Philosopher's Stone" (2001) by an American film director Chris Columbus. All are kindly invited! Please note that this time the film will be shown in the JINR Universal Public Library.



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Guttenberg's Smoking Room meeting

Blokhinka invites all interested to Guttenberg's Smoking Room meeting, where non-fiction books are retold and discussed. This is a great opportunity to learn the main thoughts of books and understand if it is interesting to read more. The meeting will be held on 24 December 2022 at 6:00 PM.

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Organ music concert

With the JINR support, the Dubna Children's Choir School for Boys will perform a concert of organ music "Bach and the music of the Paris Cathedrals". In the programme: J. S. Bach, T. Dubois, E. Gigu, L. Vierm, S. Vidor. The concert will take place on 23 December, at 7:00 PM. All are kindly invited!

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Sports

Victory of JINR

The 10th stage of the Dubna City Championship among physical culture teams in air rifle shooting took place at the JINR Stadium "Nauka". With a score of 104 points, the JINR team took the second place. According to the results of 10 sports competitions, the JINR team took the first place!

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Media

"... maybe nature has created humankind so that people create elements that do not exist in nature?"

FLNR Scientific Leader, RAS Academician Yuri Oganessian told the Kommersant newspaper about the Sber Scientific Prize, the synthesis of superheavy elements, and the boundaries of the Mendeleev Periodic Table.



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Interview about new objectives of Russian science

To find a way into new physics, detect signals of the existence of dark matter, recreate the processes that occur in stellar interior - what other tasks are Russian physicists facing until 2030? Scientific Leader of the National Centre for Physics and Mathematics, RAS Academician Alexander Sergeev answered these questions in an interview with "Gazeta.Ru".

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Record of DLNP seminar

We kindly invite you to watch the record of the seminar "TAIGA experiment: status and prospects" by Andrey Grinyuk, which took place on 15 December.

[WATCH →](#)

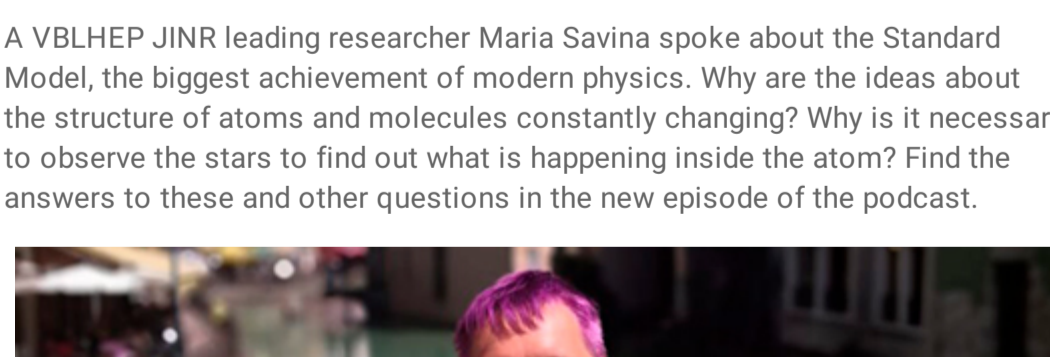
Record of seminar from series "Lifehacks of some use for a scientist"

We offer you to watch the record of the seminar "How to make a good talk" from a seminar series "Lifehacks of some use for a scientist", which took place on 16 December. You can learn easy guidance on how to prepare a good talk and work with slides, communicate with your audience, and answer questions.

[WATCH →](#)

New podcast by Sputnik Radio with JINR participation

A VBLHEP JINR leading researcher Maria Savina spoke about the Standard Model, the biggest achievement of modern physics. Why are the ideas about the structure of atoms and molecules constantly changing? Why is it necessary to observe the stars to find out what is happening inside the atom? Find the answers to these and other questions in the new episode of the podcast.



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JINR Weekly Newspaper issued

New issue of the JINR Weekly Newspaper #49 has been published. Please note that you can read an English version of the JINR Newspaper's website.

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Upcoming Events

Seminars

- **22 December 2022, at 11:00 AM, DLNP, "High-energy neutrinos from blazars: three years later"** by Alexander Piatin
- **22 December 2022, at 2:30 PM, BLTP, "Inverse Faraday effect in superconductors"** by Alexander Melnikov
- **22 December 2022, at 3:00 PM, JINR Scientists' Club, AYSS seminar series: "About the Academician V. L. Ginzburg's list of the most important problems of physics"** by Vladimir Melezhik
- **23 December 2022, at 11:30 AM, VBLHEP, "Study of radiation aging of materials in fast neutron beam at INP SB RAS"** by Victor Bobrovnikov
- **23 December 2022, at 2:30 PM, BLTP, "Schwarzian and its generalisations"** by N. Yu. Kozyrev
- **26 December 2022, at 11:00 AM, BLTP, Journal Club, "Parity-Violation in the distribution of galaxies has been discovered"** by Chitta Ranjan Das
- **28 December 2022, at 3:00 PM, MLIT, "Schwarzian and its generalisations"** by Nikolay Voytishin

Culture

- **22 December – 22 January 2022, daily from 1:00 to 7:00 PM (except Monday), JINR Cultural Centre "Mir", Exhibition by JINR Artists' Club**
- **22 December 2022, at 7:00 PM, JINR Universal Public Library, Book club "Summer Reading List", discussing the book "To Kill a Mockingbird"** by Harper Lee
- **23 December 2022, at 6:00 PM, JINR Universal Public Library, JINR Cinema Club**
- **23 December 2022, at 7:00 PM, JINR Scientists' Club, Concert "Magic sounds of Christmas"**
- **24 December 2022, at 11:30 AM, Kettlebell lifting tournament "Prize in memory of A. M. Weinstein"**
- **24 December 2022, at 6:00 PM, "Guttenberg's Smoking Room" meeting**
- **29 December 2022, at 7:00 PM, JINR Universal Public Library, Meeting of the book club "Hairpin", discussing the book "Winter Solstice" by Rosamunde Pilcher**

For Kids

- **23 December 2022, at 6:00 PM, JINR Universal Public Library, Growing up from "Let's READers"**
- **24 December 2022, at 2:30 PM, JINR Universal Public Library, Quests for children in "Blokhinka"**
- **25 December 2022, at 12:00 PM and at 4:00 PM, JINR Cultural Centre "Mir", Moscow Provincial Theatre performs New Year's fairy tale**

[ALL JINR EVENTS →](#)