



JINR Newsletter #20, 11 August 2022

Dear colleagues and friends,

Harvest time is coming, and FLNR scientists have already collected the fruits of two summer experiments at the Superheavy Element Factory. A new isotope of element 110 has been obtained, preparations have taken place to study the properties of elements 112 and 114. Another achievement of the Institute is a new patent for an invention proposed by a DLNP researcher Sergey Dolya.

A new pension programme has been launched at the Institute, which has been commented on in an interview with Head of the Human Resources Department Elena Kolganova.

BLTP is hosting a fruitful discussion of supersymmetries taking place at the international meeting. MLIT has become the information partner of a large-scale competition "Digital Breakthrough 2022".

A new preprint, Grigory Trubnikov as a guest of the Praesens Historicum radio programme, the return of the "Neptune" panel on the wall of the JINR swimming pool, an astronaut at a tennis tournament, and much more – read about all this in the new issue of the JINR Newsletter!

JINR Press Office



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Research

Two experiments carried out at Superheavy Element Factory

This summer, two large experiments were conducted at the Superheavy Element Factory of the Flerov Laboratory of Nuclear Reactions JINR. One of them resulted in a new synthesised isotope of chemical element 110. The result of the other experiment was the successful preparation for the study of the chemical properties of elements 112 and 114. FLNR Scientific Secretary, Doctor of Physics and Mathematics Alexander Karpov commented on state of the art at the Factory.



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Method for express analysis of inhibition of living protein molecules invented at JINR

JINR has received a new patent for a new method for express analysis of the structure of living protein molecules based on measuring the shifts in the peaks of nuclear magnetic resonance (NMR) of these molecules. According to the inventor Sergey Dolya (DLNP), thanks to the new invention, an NMR spectrometer can register radiation-induced damages to molecules in real-time mode, which will increase the informative value of studies.

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JINR Publicity

MLIT became “Digital Breakthrough 2022” partner

The Laboratory of Information Technologies has become an information partner of the competition “Digital Breakthrough 2022. Season: Artificial Intelligence”. The Laboratory’s specialists in artificial intelligence and machine learning formulated the task on plant disease detection using neural networks with a small training dataset.

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Conferences

Supersymmetries and quantum symmetries being discussed in BLTP

The International Workshop “Supersymmetries and Quantum Symmetries – SQS’22” is being held this week in BLTP JINR. Participants discuss string and higher-spin theories, quantum and geometric aspects of supersymmetric theories, supersymmetric integrable models, and much more.



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People

Pension support at JINR

The Joint Institute for Nuclear Research is launching a programme of financial backing for employees who go on a well-deserved rest. The initiative is aimed at supporting employees who have given their creative energy and many years of their lives to the development of the Institute.

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Publications

JINR Publishing Department released new preprint

“On the Possibility of Pion Condensation from π^-C Interactions at 40 GeV/c” E1-2022-21. The authors are M. Sovd, Ts. Baatar, A. I. Malakhov, B. Otgongerel, B. Batgerel, and G. Sharkhuu.

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Media

Radio programme with JINR Director

JINR Director Grigory Trubnikov became a guest of the Praesens Historicum project and spoke about colliders and their capabilities. Guests of the programme by Radio Russia are people who have been a driving force of time for many years.

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JINR at GEEK PICNIC

The event is over, but emotions are not fading. JINR lecturers and their audience shared their impressions of the largest festival aimed at promoting science.

WATCH ➡➡

JINR Weekly Newspaper issued

New issue of the JINR Weekly Newspaper #30 has been published. Please note that you can read an English version on the JINR Newspaper's website.

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Announcements

Mosaic panel with Neptune returned to facade of Archimedes Swimming Pool

The mosaic panel “Neptune” has returned to the wall of the Archimedes Swimming Pool of JINR! The “Neptune” was removed for the restoration in November 2018. Before that, the image of the sea god had decorated the walls of the swimming pool since the early 70s. Dubna artist Mikhail Polyakov has taken part in the restoration of the historical mosaic and preserved its original appearance.



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All interested are kindly invited to participate in Festival NAUKA 0+

If you are full of ideas and have something to offer to represent JINR at the All-Russian Festival NAUKA 0+ this autumn (workshops, experiments, videos, photos, etc.), please

- call: +7 (496) 216-27-01,

- write: olga-iv-pochta@mail.ru (Olga Radosteva)

- or come to the Social Communication Group of UC JINR (building 113, 5th floor, room 506).

We will be glad to have any ideas for discussion and new team members!

RSF announced call for applications for 6 competitions!

Among them:

- competition to support laboratories carrying out genetic research;
- interdisciplinary research competition;
- competition to support the research of world-class scientific laboratories;
- competition of individual scientific groups;
- two competitions for the extension of previously awarded grants (world-class scientific laboratories and individual research groups).

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Sports

Dzhelepov Tennis Tournament concluded

The XXIII Tennis Tournament dedicated to the memory of Venedikt and Boris Dzhelepov, outstanding physicists, RAS Corresponding Members, was held last weekend. Not only JINR scientists and residents of Dubna took part in the competition. Among other participants of the tournament there were cosmonaut Sergei Treshchev, Vice-President of the Association of Security Officers of Russia Vladimir Barashkov, and tennis players from Moscow, Smolensk, and Lipetsk. In total, 38 athletes competed in the competition.



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Upcoming Events

Conferences

- [8 – 13 August 2022, International Workshop “Supersymmetries and](#)

Seminars

- [15 August 2022](#), at 11:00 AM, BLTP, Blokhintsev Conference Hall (4th floor). BLTP Journal Club

Culture

- [5 - 21 August 2022](#), daily from 3:00 to 7:00 PM. JINR Cultural Centre "Mir". Art exhibition by Vlad Kravchuk and Yana Mikhailova
- [11 August 2022](#), at 7:00 PM. JINR Universal Public Library. Meeting of the book club "Hairpin": discussing the book "Gone girl" by Gillian Flynn
- [16 August 2022](#), at 7:00 PM. JINR Universal Public Library. Genealogical club's meeting
- [18 August 2022](#), at 7:00 PM. JINR Universal Public Library. Book club "Summer Reading List": discussing the book "The Screwtape Letters" by C. S. Lewis

Sports

- [14 August 2022](#), at 10:00 AM (children), and at 11:00 AM (adults). JINR Stadium "Nauka". Track and field race "Watermelon thousand"

ALL JINR EVENTS →

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