

**JOINT INSTITUTE FOR NUCLEAR RESEARCH
MESHCHERYAKOV LABORATORY OF INFORMATION TECHNOLOGIES**

**The International Workshop "Mathematical Problems in Quantum Information
Technologies" (MPQIT)
27 – 28 May, 2024
Dubna, Russia**

The Meshcheryakov Laboratory of Information Technologies (MLIT) of Joint Institute for Nuclear Research (JINR) will be hosting an **International Workshop on Mathematical Problems in Quantum Information Technologies (MPQIT)** on 27-28 May, 2024 in a mixed format.

The main focus of MPQIT-2024 is on mathematical aspects of diverse problems in fundamental and applied quantum technologies such as

- quantum information theory,
- quantum communications,
- quantum computation, simulation, and quantum algorithms.

The aim of this workshop is to bring together researchers from JINR member-states and around the world working on mathematical problems of quantum information science to exchange their experience and research results.

The schedule of MPQIT-2024 is such that there will be enough time for informal discussions addressing fundamental aspects of quantum information science and those obstacles that researchers face.

Program Committee:

Nerses Ananikyan (Yerevan Physics Institute, Armenia)

Gia Giorgadze (Ivane Javakhishvili Tbilisi State University, Georgia)

Mikhail Gordin (Bauman Moscow State Technical University, Russia)

Aleksey Fedorov (Russian Quantum Center, Russia)

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Sergei Kulik (Moscow State University Quantum Technology Centre, Russia)

Nazim Timur Mamedov (Azerbaijan National Academy of Sciences, Azerbaijan)

Dimitar Mladenov (Sofia State University, Bulgaria)

Ahmed Younes (Alexandria University, Egypt)

Workshop Chairs:

Arsen Khvedelidze and Vladimir Korenkov (JINR, Dubna)

Organizing Committee:

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Natalia Dokalenko, JINR, Dubna - Secretary
Nurzada Saktaganov
Darya Stankus
Alexey Vorontsov
Tatiana Zaikina

The program of the Conference comprises plenary reports (30 min) and sessional reports (15 min).

For **visa** questions and hotel registration please contact as soon as possible the Workshop Secretary Mrs. Natalia Dokalenko (doknatasha@jinr.ru).

After the Workshop, the best reports presented at MPQIT-2024 will be invited for a special issue of review journal *Physics of Elementary Particles and Atomic Nuclei* http://www1.jinr.ru/Pepan/Pepan_index.html

Conference languages – English and Russian.

Important dates

Registration opened:	21.03.2024 (at Indico online registration)
Abstract submission deadline:	14.05.2024 (at Indico online abstract submission)
Notification of acceptance:	20.05.2024
Visa support deadline:	29.04.2024
Registration deadline:	14.05.2024

Registration

The registration to the MPQIT-2024 Workshop is now open, it can be done online through the Indico service <http://mpqit2024.jinr.ru/>.

Please note, that for online abstract submission you should register in the JINR Indico system (if you have an Indico login and password, registered earlier on another conference, you have to use it, do not create a new Indico account).

Please, remember your login and password for sending abstracts or further editing. The system allows modifications up to the moment, when the abstract submission is closed.

Contact: mpqit2024@jinr.ru

URL: <http://mpqit2024.jinr.ru/>

With best regards,
MPQIT-2024 Organizing Committee