

BAUMAN MOSCOW STATE TECHNICAL UNIVERSITY

<https://bmstu.ru/>

5, 2-nd Baumanskaya Street, Moscow, 105005, Russia



XXIII International Conference Physical Interpretations of Relativity Theory PIRT – 2023

Monday July 3rd– Thursday July 6th 2023

Dear Colleagues,

On behalf of the PIRT-2023 Conference Organizing Committee we would like to formally invite you to participate at the **Physical Interpretations of Relativity Theory PIRT-2023** conference this year in the Bauman University, Moscow during the period **July 3rd to 6th, 2023**.

The meeting of the PIRT-2023 conference will be held in the Conference Hall, which will allow you to make a presentation both **remotely (in Zoom) and in person**. All conference sessions are accompanied by **simultaneous interpreting**.

The PIRT conference is an international scientific event that was organized by the Faculty of Physics of the University of Liverpool and the University of Sunderland in 1988 and was first held at Imperial College London every two years, and since 2003 it has been held at Bauman University in Moscow. The main objectives of the conference are to discuss the physical, geometric, and mathematical interpretation of the theory of relativity, its experimental verification and discussion of alternative theories of gravity, optical methods for detecting gravitational waves, new effects of moving-media optics and relativistic electrodynamics, as well as astrophysical observations and space experiments. More than 120 scientists from 21 countries took part in the previous PIRT-2021 conference, which was held at a high international scientific level. There is more information on the websites <http://www.pirt.info/?lang=eng>, <https://pirt.bmstu.ru/en/>.

THE CONFERENCE SCIENCE PROGRAM OF THE PIRT-2023 will include papers on the following topics:

Gravitation, cosmology and large-scale structure

Gravitational waves and experimental tests of the relativity theory

Relativistic electrodynamics

High energy astrophysics

Modern problems of classical and quantum field theory

IMPORTANT DATES

Registration – **March 1st, 2023**

Submission of Abstracts – **April 1st, 2023**

Submission of Papers – **August 1st, 2023**

INTERNATIONAL ORGANIZING COMMITTEE (IOC) AND INTERNATIONAL SCIENTIFIC COMMITTEE (ISC)

Dr. Michael Gordin, Bauman MSTU, Russia (University Rector, Chairman, IOC)

Acad. of RAS, Prof. Alexei Starobinsky, Landau Institute for Theoretical Physics RAS, Russia (Chairman, ISC)

Corr.-Member of RAS, Prof. Andrei Morozov, Bauman MSTU, Moscow, Russia (Co-Chairman, ISC)

Prof. Vladimir Gladyshev, Bauman MSTU, Russia (Co-Chairman, IOC, ISC)

Prof. Innocenzo M. Pinto, University of Naples "Federico II", Italy (IOC, ISC)

Prof. Louis Kauffman, University of Illinois at Chicago, United States (ISC)

Prof. Bivudutta Mishra, BITS-Pilani, Hyderabad Campus, India (IOC, ISC)

Dr. Richard Kerner, Sorbonne-Université, France (ISC)

Prof. Roland Triay, Centre de Physique Théorique CNRS - Aix- Marseille University, France (IOC, ISC)

Prof. Aroonkumar Beesham, University of Zululand, South Africa (IOC, ISC)

Prof. Sunil Kumar Tripathy, Indira Gandhi Institute of Technology, Sarang, India (IOC, ISC)

Prof. Carlos Romero, Universidade Federal da Paraiba, Brazil (IOC, ISC)

Prof. Sergey Chervon, Ulyanovsk State University, Russia (IOC, ISC)

Prof. Valery Mitrofanov, Lomonosov Moscow State University, Russia (ISC)

Prof. Konstantin Postnov, Sternberg Astronomical Institute, Lomonosov Moscow State University, Russia (ISC)

Prof. Antonio C. Gutierrez-Pineros, Universidad Industrial de Santander, Colombia (IOC, ISC)

SUBMISSION OF ABSTRACTS & PAPERS

Abstracts (one page of text) offered for inclusion in the PIRT-2023 Program should be sent to the Conference Organizing Committee before April 1st, 2023.

PIRT-2023 Proceedings will be included in the RSCI.

Papers (5-10 pages text including figures) should be sent to the Conference Organizing Committee before August 1st, 2023.

According to the results of the conference, selected papers in English and Russian are planned for publication in the Proceedings of the AIP conference (Scopus) <https://aip.scitation.org/journal/apc> and in a separate issue of the journal "Space, Time and Fundamental Interactions" (VAK State Commission for Academic Degrees and Titles) <https://stfi.ru/> respectively.

The articles should be thoroughly revised and put into shape according to requirements.

REGISTRATION FEE

Remote participation (Zoom) - 100 Euro.

In-person participation - 200 Euro.

For RF and CIS participants:

Remote participation (Zoom) - 1500 rub.

In-person participation - 3000 rub.

The registration fee does not include payment for the publication of the paper.

Financial support can be provided to scientists from developing countries, postgraduates and undergraduates upon request.

ACCOMODATION

Booking is available at <https://www.izmailovo.ru>. The "Izmailovo" tourist hotel complex is located near Partizanskaya metro station, which is 3 stations from Baumanskaya metro station and Bauman Moscow State Technical University.

SIMULTANEOUS CONFERENCE INTERPRETING

The working languages of the conference are English and Russian. The official parts of the conference and reports will be accompanied by simultaneous interpreting.

INTERNATIONAL SUMMER SCHOOL ON GRAVITY, COSMOLOGY AND ASTROPHYSICS (ISGCA-2023)

At the same time, from July 3 to July 7, 2023, the IV Summer International Youth School on Gravity, Cosmology and Astrophysics ISGCA-2023 will traditionally be held. The School will work in the scientific library of the Educational and Laboratory Building of Bauman University, both in-person and remotely (via Zoom).

The ISGCA-2023 conference aims at enthusiastic senior students majoring in theoretical physics. Its purpose is to attract talented young people to scientific research in the field

of fundamental physics, to tackle the main problems, ideas and methods of research in the modern theory of gravity and cosmology.

Well-known scientists from various countries will speak at the School. Academician of the Russian Academy of Sciences Alexey Alexandrovich Starobinsky will give plenary lectures at the opening. Each participant of the School will receive an international level certificate of participation. The lectures will be accompanied by simultaneous interpreting. Coffee breaks will be organized for participants.

More detailed information about the School is available on the website <https://pirt.bmstu.ru/en/international-school/>.

CONTACTS

Information concerning the PIRT Conference will be posted on the PIRT web-site <https://pirt.bmstu.ru/en/>.

All enquiries concerning length of abstracts, papers, registration, accommodation, School, etc. should be sent to the Conference Organizing Committee preferably by e-mail dekan-fn@mail.ru.

To participate in the Conference, please register on the web-site <https://pirt.bmstu.ru/en/>.

***With best regards,
Conference Committee PIRT-2023***