



BAUMAN MOSCOW STATE TECHNICAL UNIVERSITY

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

<http://fn.bmstu.ru/en/>

<http://www.pirt.info/?lang=eng>

*The State Duma Committee on Education of the Russian Federation;
University of Liverpool; Great Britain;
Russian Gravitational Society;
Moscow Physical Society;
The International Society on General Relativity & Gravitation;
British Society for the Philosophy of Science;
Calcutta Mathematical Society
The Universe
The Optical Society*

XXI International Meeting

Physical Interpretations of Relativity Theory – 2019

Monday 1 July – Friday 5 July 2019

Dear Colleague,

There is to be a conference on *Physical Interpretations of Relativity Theory* in the **Bauman Moscow State Technical University** between **Monday 1st July to Friday 5th July 2019**.

The PIRT Conference is an event held in September since 1988 at Imperial College in London and since 2003 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 the detecting gravitational waves, new effects of moving-media optics and relativistic electrodynamics, as well as astrophysical observations and space experiments.

The XXth PIRT-2017 conference was held at a high international scientific level. 161 scientists from 27 countries attended the conference, including 61 foreign participants. Well-known scientists, such as Prof. Dadhich Naresh, Prof. Blair David, Prof. Louis Hirsch Kauffman, Prof. Mairi Sakellariadou, Prof. Vladislav Pustovoit and others gave their plenary presentations. Moreover, on PIRT-2017 the journal Nature Physics organised the best poster report competition. The conference also received Russian and International grants.

The Conference Program of the PIRT-2019 will include papers dealing with the following major themes:

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

This is not an exhaustive list, and colleagues wishing to submit papers dealing with different subjects should send an outline of their proposed presentation to the organizers of the conference.

INTERNATIONAL SCIENTIFIC COMMITTEE OF PIRT-2019

Anatoly Aleksandrov, Bauman University, Russia
Barry Barish, California Institute of Technology, United States
Aroonkumar Beesham, University of Zululand, South Africa
David Blair, University of South Western Australia, Australia
Anatol Cherepashchuk, Sternberg Astronomical Institute Moscow University, Russia
Alexander Chernikov, Bauman University, Russia
Sergei Chervon, Ulyanovsk State Pedagogical University, Russia
Naresh Dadhich, IUCAA, PUNE, India
John Dainton, Liverpool University, Great Britain
Vladimir Gladyshev, Bauman University, Russia
Georgii Izmailov, Moscow Aviation Institute, Russia
Nikolay Kardashev, Astro Space Center of P.N. Lebedev Physical Institute of RAS, Russia
Louis Kauffman, University of Illinois at Chicago, United States
Richard Kerner, University Pierre et Marie Curie, France
Vassily Manturov, Bauman University, Moscow State University, Russia
Bivudutta Mishra, BITS-Pilani, Hyderabad Campus, India
Andrey Morozov, Bauman University, Russia
Nicola Napolitano, INAF Astronomical Observatory of Capodimonte, Italy
Guido Pizzella, University of Rome, Italy
Konstantin Postnov, Sternberg State Astronomical Institute Lomonosov Moscow State University, Russia
Vladislav Pustovoit, Russian Academy of Science, Bauman University, Russia
Carlos Romero, Universidade Federal da Paraiba, Brazil
Peter Rowlands, University of Liverpool, United Kingdom
Valentin Rudenko, Sternberg State Astronomical Institute Lomonosov Moscow State University, Russia
Mikhail Sazhin, Sternberg State Astronomical Institute Lomonosov Moscow State University, Russia
Alexei Starobinsky, Landau Institute for Theoretical Physics, Russia
Sergey Sushkov, Kazan Federal University, Russia
Roland Triay, Centre de Physique Théorique CNRS - Aix- Marseille University, France
Nina Tyannikova, Bauman University, Russia
Rainer Weiss, Massachusetts Institute of Technology, United States

CONFERENCE ADMINISTRATION: ADDRESSES

The **International Organizing Committee of PIRT-2019** is directed by:
Prof. A.A. Aleksandrov (Chairman), Rector of Bauman University, Russia
Prof. V.O. Gladyshev (Vice-Chairman), Head of Fundamental Science Faculty, Bauman University, Russia
(dekan-fn@mail.ru)

The **Academician Committee of PIRT-2019** is directed by:

Member of RAS, Prof. V.I. Pustovoit (Chairman), RAS, Bauman University, Russia (vlad_pst@yahoo.com)
Prof. V.O. Gladyshev (Co-Chairman), Head of Fundamental Science Faculty, Bauman University, Russia (dekan-fn@mail.ru)
Prof. A.N. Morozov (Vice-Chairman), Head of Physics Dept., Bauman University, Russia (amor@mx.bmstu.ru)

Postal Communications may be sent to:

Prof. V.O. Gladyshev (dekan-fn@mail.ru)
Organizing Committee of PIRT-2019,
Department of Physics, Bauman Moscow State Technical University,
5, 2-nd Baumanskaya st., Moscow 105005, RUSSIA
Prof. P. Rowlands, (P.Rowlands@liverpool.ac.uk)
University of Liverpool, Liverpool, United Kingdom

SUBMISSION OF ABSTRACTS & TEXTS

Abstracts (one page of text) in English offered for inclusion in the PIRT-2019 Program should be sent to the Local Organizing Committee **before 1st March 2019**.

Papers (5-10 pages of text including figures) in English should be sent to the Local Organizing Committee **before 1st May 2019**.

Authors must prepare their abstracts and papers using Microsoft Word according to **the guidelines and templates** (you can find them on <http://www.pirt.info/?lang=eng#format>), and then convert these files to PDF.

According to the results of the conference some papers will be selected for publishing in a separate issue of Journal of Physics: Conference Series (JPCS). (<http://iopscience.iop.org/journal/1742-6596>). The articles should be thoroughly revised and put into shape in according to requirements.

Colleagues from countries outside Russia should note that a visa is required for entry into the country, and it is essential to leave time for applying for this document which may take one or two months to obtain, sometimes longer. It is therefore in the interests of all non-Russian participants to prepare for participation in the PIRT conference by the earliest date possible.

REGISTRATION FEE

The registration fee is 200 Euro.

For representatives of universities and academic institutions of the Russian Federation registration fee - 3000 rubles.

Financial support is provided for scientists from developing countries, for students and post-graduate students.

ACCOMMODATION

We suggest you to reserve a room by yourself in the Izmailovskii Tourist Hotel Complex (Izmailovskoe Shosse, 71, 3V, Moscow, 105187. E-mail: book@hotel-vega.ru, www.hotel-vega.ru or <http://en.hotel-vega.org/>).

The hotel is near the underground station "Partizanskaya" (3 station from the underground station "Baumanskaya" and Bauman Moscow State Technical University).

TRANSLATION AND EXCURSIONS

English and Russian languages are the working languages at the conference. The Organising Committee will arrange interpretation during official parts of the Meeting and excursions.

The Organizing Committee plans to organize an excursion about the centre of Moscow and to BMSTU Museum. Participants may also inform the Committee about other places of interest, which they desire to visit.

WEB-SITE

Information concerning the PIRT Conference will be posted on the PIRT web-site:

<http://www.pirt.info/?lang=eng>

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

All enquiries concerning the London PIRT conferences should be sent to **Dr. P. Rowlands**, (University of Liverpool, Liverpool, United Kingdom P.Rowlands@liverpool.ac.uk)

To participate in the Conference, please register on the web-site

http://www.pirt.info/?lang=eng#reg_form

*With best regards,
Organizing Committee*