



## **BAUMAN MOSCOW STATE TECHNICAL UNIVERSITY**

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

<http://fn.bmstu.ru/en/research-fs-en>

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

*The State Duma Committee on Education of the Russian Federation;  
Department of Physics, 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*

# **XXI International Meeting**

## **Physical Interpretations of Relativity Theory – 2019**

**Monday July 1 – Friday July 5 2019**

*Dear Colleague,*

**Bauman Moscow State Technical University** is holding a conference on *Physical Interpretations of Relativity Theory* on **July 1 - July 5 2019**.

The PIRT Conference is the event held in September since 1988 at Imperial College in London and since 2003 at Bauman University in Moscow. The objectives are the physical, geometrical, and mathematical interpretations of the formal structure of Relativity Theory, and to examine the questions concerning the various interpretations of the accepted mathematical expression of the Relativity Principle.

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. Also, the journal Nature Physics organised the best poster report competition. The conference also received grants from the RFBR and the British Embassy in Moscow. There is more information about the 2017 conference on the website <http://www.pirt.info/?lang=eng>

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

**Gravitation, cosmology and large-scale structure**  
**Gravitational waves and experimental tests of the relativity theory**  
**Space-time, topology and differential geometry**  
**Relativistic electrodynamics**  
**High energy astrophysics**  
**Nature and models of physical vacuum**

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

## **SCIENTIFIC ORGANIZING COMMITTEE-2019**

**Anatoly Aleksandrov**, Bauman University, Russia  
**Barry Barish**, California Institute of Technology, the 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, the United States  
**Richard Kerner**, University Pierre et Marie Curie, France  
**Vassily Manturov**, Bauman University, Moscow State University, Russia  
**Bivudutta Mishra**, BITS-Pilani, 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, Departamento de Fisica, Brazil  
**Peter Rowlands**, University of Liverpool, the 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, the United States

## **CONFERENCE ADMINISTRATION:**

The **PIRT-2019 International Organizing Committee** is headed by:  
Prof. Anatoly A. Aleksandrov, Rector of Bauman University, Russia

Prof. Vladimir O. Gladyshev, Head of the Faculty of Fundamental Sciences, Bauman University, Russia ([dekan-fn@mail.ru](mailto:dekan-fn@mail.ru))

Prof. Peter Rowlands, University of Liverpool, the United Kingdom ([P.Rowlands@liverpool.ac.uk](mailto:P.Rowlands@liverpool.ac.uk))

The **PIRT-2019 International Academician Committee** is headed by:

Member of RAS, Prof. Vladislav I. Pustovoit, RAS, Bauman University, Russia ([vlad\\_pst@yahoo.com](mailto:vlad_pst@yahoo.com))

**Postal Communications may be sent to:**

Dr. Nina D. Tyannikova ([dekan-fn@mail.ru](mailto:dekan-fn@mail.ru))

The Secretary of PIRT-2019 International Organizing Committee

## **SUBMISSION OF ABSTRACTS & TEXTS**

**Abstracts** (one page texts) in English submitted to the PIRT-2019 Program should be sent to the Secretary of PIRT-2019 Organizing Committee ([dekan-fn@mail.ru](mailto:dekan-fn@mail.ru)) **before March 1, 2019.**

**Papers** (5-10 pages of text including figures) in English should be sent the Secretary of PIRT-2019 Organizing Committee ([dekan-fn@mail.ru](mailto:dekan-fn@mail.ru)) **before May 1, 2019.**

Authors should 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 according to the requirements.

**Participants from foreign countries should note that a visa is required for the entry into Russia, and it is essential to have time to apply 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.

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](mailto:book@hotel-vega.ru), [www.hotel-vega.ru](http://www.hotel-vega.ru) or <http://en.hotel-vega.org/>).

The hotel is near the underground station “Partizanskaya” (in 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 is planning to organize an excursion around 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 abstracts, papers, registration, accommodation, etc. should be sent to the Secretary of PIRT-2019 Organizing Committee preferably by e-mail to **Dr. Nina D. Tyannikova** ([dekan-fn@mail.ru](mailto:dekan-fn@mail.ru)).

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

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

[http://www.pirt.info/?lang=eng#reg\\_form](http://www.pirt.info/?lang=eng#reg_form)

*With best regards,  
PIRT-2019 Organizing Committee*