



## **BAUMAN MOSCOW STATE TECHNICAL UNIVERSITY**

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

<http://www.space-lab.ru/index.php?lang=eng>

Department of Physics, BMSTU, Moscow

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International Research Institute of Hypercomplex Systems in Geometry and Physics

Department of Physics, University of Liverpool, Great Britain

S.C.&T., University of Sunderland, Great Britain

United Physical Society of Russian Federation

Russian Gravitational Society

### **International Meeting**

## **Physical Interpretations of Relativity Theory - 2011**

**Monday 4 July – Thursday 7 July 2011**

Dear Colleague,

There is to be a conference on *Physical Interpretations of Relativity Theory* in the **Bauman Moscow State Technical University** between **Monday 4<sup>th</sup> July to Thursday 7<sup>th</sup> July 2011**.

The objectives of this conference are the same as those pursued in the *Physical Interpretations of Relativity Theory (PIRT)* conferences which have been held in Imperial College, London, every two years since 1988. These objectives are:-

“... to explore the chief characteristics – including the advantages of the various 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. Critical review of the conceptual apparatus and the statements of the Relativity Principle is invited provided it is rational and scientific. The conference seeks to review subjects relevant to the solution of physical, mathematical-physical and technical problems. Relativity permeates the physical sciences to the same extent that Evolutionary Theory permeates the biological sciences and therefore papers reviewing the links between Relativity and other major departments of physical science are within the scope of the conference. It is intended to inter-relate several fields of research and to promote understanding between different schools of thought engaged in studying Relativity...”

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

**Cosmology, Gravitation and Space-Time Structure.**  
**Time, Reference Frames and the Fundamentals of Relativity.**  
**Experimental Aspects of Relativity.**  
**Formal Structures and Physical Interpretations of Relativity Theory.**  
**Nature and Models of the Physical Vacuum.**  
**Finsler Generalizations of the Relativity Theory.**  
**Information Theoretical Aspects of Space-Time Structure.**  
**The Poincare-Lorentz and the Einstein-Minkowski expositions of the Relativity Principle.**  
**Analogues of Relativity and Quantum Mechanics.**  
**Historical and Philosophical Aspects of Relativity.**

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 Moscow conference.

## **CONFERENCE ADMINISTRATION: ADDRESSES**

The **Academician Committee of Moscow PIRT-2011** is directed by:  
Member of RAS, Prof. V.I. Pustovoi, Director of Science Technological Centre of Unique Instruments of RAS, Russia ([vlad\\_pst@yahoo.com](mailto:vlad_pst@yahoo.com))  
Prof. A.N. Morozov, Head of Physics Dept., Bauman MSTU, Russia ([amor@mx.bmstu.ru](mailto:amor@mx.bmstu.ru))

The **Organizing Committee of Moscow PIRT-2011** is directed by:  
Prof. B.P. Nazarenko, Head of Fundamental Science Faculty, Bauman MSTU, Russia ([nazar@bmstu.ru](mailto:nazar@bmstu.ru))  
Prof. V.O. Gladyshev, Physics Dept., Bauman MSTU, Russia ([vgladyshev@mail.ru](mailto:vgladyshev@mail.ru))  
Prof. M.C. Duffy, University of Sunderland, United Kingdom ([michael.duffy9@btopenworld.com](mailto:michael.duffy9@btopenworld.com))  
Prof. P. Rowlands, University of Liverpool, Liverpool, United Kingdom ([P.Rowlands@liverpool.ac.uk](mailto:P.Rowlands@liverpool.ac.uk))

**Postal Communications may be sent to:**  
Prof. V.O. Gladyshev ([vgladyshev@mail.ru](mailto:vgladyshev@mail.ru))  
Organizing Committee of Moscow PIRT-2011,  
Department of Physics, Bauman Moscow State Technical University,  
5, 2-nd Baumanskaya st., Moscow 105005, RUSSIA

## **SUBMISSION OF ABSTRACTS & TEXTS**

**Abstracts** (one page of text) **and Papers** (5-10 pages of text including figures) in English offered for inclusion in the Firth Moscow PIRT Program should be sent to the Local Organizing Committee **before 1<sup>st</sup> May**.

Preferred format for abstracts and papers was posted on the Firth Moscow PIRT web-site:

<http://www.space-lab.ru/index.php?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** [vgladyshev@mail.ru](mailto:vgladyshev@mail.ru).

**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 two or three weeks to obtain, sometimes longer. It is therefore in the interests of all non-Russian participants to prepare for participation in the Moscow PIRT conference by the earliest date possible.**

## ACCOMMODATION

Rooms will be reserved 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" (3 station from the underground station "Baumanskaya" and Bauman Moscow State Technical University).

The Organising Committee has also other variants of accommodation near Bauman Moscow State Technical University.

## TRANSLATION AND EXCURSIONS

English and Russian languages are the working languages at the conference. The Organising Committee can arrange interpretation for foreign participants 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 Moscow PIRT Conference will be posted on the PIRT web-site:

<http://www.space-lab.ru/index.php?lang=eng>

Details concerning the previous **London PIRT** conferences, held between 1988 and 2010 are given in the updated Conference Brochure which may be accessed at the following website address:

[http://www.physicsfoundations.org/PIRT\\_XI/general.html](http://www.physicsfoundations.org/PIRT_XI/general.html)

**The next London PIRT will be September 2012.**

All enquiries concerning the London PIRT conferences should be sent to **Dr. M.C.Duffy** [michael.duffy9@btopenworld.com](mailto:michael.duffy9@btopenworld.com), FAX +44 (0) 1282 454 087, P.O. Box 342, Burnley, Great Britain, BB10 1XL and **Dr. P.Rowlands**, (University of Liverpool, Liverpool, United Kingdom [P.Rowlands@liverpool.ac.uk](mailto:P.Rowlands@liverpool.ac.uk))

Please send the **Registration form**, together with an **Abstract** of your proposed contribution, to the Local Organizing Committee at the Bauman Moscow State Technical University:

## REGISTRATION FORM

Physical Interpretations of Relativity Theory - 2011, Moscow, Russia  
**4 July – 7 July 2011**

PLEASE complete ALL necessary sections of the form referring to:

### Section A: GENERAL INFORMATION

NAME (Prof/Dr/Mr/Ms)

FIRST NAMES

UNIVERSITY

ADDRESS FOR CONFERENCE COMMUNICATION (if different from above)

POSTCODE  
TELEPHONE NUMBER  
FAX NUMBER  
E-MAIL NUMBER  
ACCOMPANYING PERSONS (Number)  
(Names/Initials)

REGISTRATION FEES

Number of Participants (200 EUR each): \_\_\_\_\_EUR  
Number of Accompanying Persons \_\_\_\_\_ (50 EUR each): \_\_\_\_\_EUR  
TOTAL : \_\_\_\_\_

**Section B: ACCOMMODATION**

ARRIVAL DATE \_\_\_\_\_ (Approximate time of arrival if known)  
DEPARTURE DATE \_\_\_\_\_ (Approximate departure time if known)  
NUMBER OF NIGHTS FOR WHICH ACCOMMODATION IS REQUIRED ON BAUMAN  
UNIVERSITY SITE \_\_\_\_\_  
ANY SPECIAL REQUIREMENTS? (Ground Floor/Shared Room), please state

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ACCOMPANYING PERSON (Number of nights for which accommodation is required)

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DELEGATE: \_\_\_\_\_ nights accommodation.  
ACCOMPANYING PERSON \_\_\_\_\_ nights.