



**16th International Congress on
Mathematical Physics**

Prague, August 3-8, 2009

The second information bulletin

Basic information

Place: Prague, Czech Republic

Dates: August 3–8, 2009, with the YRS on July 31–August 1

Congress site: Clarion Congress Hotel Prague, <http://www.cchp.cz/pages/en/>

URL: <http://www.icmp09.com/>

E-mail: icmp@ujf.cas.cz, icmp09@cbttravel.cz

Registration: <http://www.icmp09.com/on-line-forms>

Auspices: Mayor of Prague, President of the Czech Academy of Sciences
Rectors of the Charles and Czech Technical Universities

Sponsors: DFG, IUPAP, ESF, DIF, ICIAM, etc., as well as Doppler
Institute and several other Czech academic and private institutions

Scientific committee: Michael Aizenman, Ingrid Daubechies,
Pavel Exner, Juerg Fröhlich, Giovanni Gallavotti (chair),
Yakov Sinai, Jan Philip Solovej

Scientific Programme

As indicated before, there will *plenary lectures* and *topical sessions*. The list of invited speakers in both the plenum and sessions is almost complete and can be found at <http://www.icmp09.com/scientific-programme>, including updates. Talk titles and abstract will be posted there when the speakers supply them.

All participants are invited to contribute to the congress programme by contributed talks or posters. Proposals can be made simultaneously with the registration at <https://secure.cbttravel.cz/icmp09/abstract-online.php>; the session organizers will choose contributions for oral presentation.

We recall that the goal is to reach beyond the usual ICMP scope and to look for prospective topics and problems. There will be a topical session devoted to *new frontiers in mathematical physics*, another opportunity to reflect about the future of the discipline will be offered by a *round table discussion*. In connection with latter, there will be a plenary lecture by *Steven Weinberg*.

The invited talk contents will be summarized in a *proceedings volume*. The organizers are committed to publish it in a reasonably short time.

The congress will be traditionally preceded by a two-day *Young Researcher Symposium* which will convene in Prague on July 31 – August 1.

Registration

Registration fees

The registration covers all parts of the scientific programme, coffee breaks and the social programme except the congress dinner which is charged separately, and moderately. All the sums are in *euros*.

ICMP	<i>Early</i>	<i>Standard</i>	<i>Onsite</i>
	\leq <i>March 31</i>	\geq <i>April 1</i>	
Participant	300	350	420
IAMP Member ¹	260	310	340
Student ²	180	230	280
Accompanying person	100	120	140

YRS

Participant	90	110	140
IAMP Member ¹	75	90	120
Student ²	60	75	100

¹ To qualify for this reduced fee, participants must be members in good standing by the time of the online registration opening. The status can be checked in your personal record in the IAMP member database. To all the other members the full registration fee applies.

² To qualify for the student fee, applicants must not exceed the age limit of 27. They also have to be able to present proof of full-time enrollment at an accredited university or college at the time of the registration. The documents have to be sent to the Congress Secretariat by e-mail, icmp09@cbttravel.cz, or by fax +420 224 942 550, together with the application.

Fellowships

The congress budget is tight but the organizers will nevertheless try to help colleagues from economically less fortunate regions to participate in the ICMP offering a possibility to apply for *congress fellowships* which may include

- waiving of the conference fee
- free accommodation in a student dormitory
- a small contribution towards travel expenses

The support will be given on a competitive basis; those interested in it are requested to send an application to icmp@ujf.cas.cz *not later than on March 31, 2009*. It has to be accompanied by the *applicant's CV and list of publications*.

Abstract submission

The titles and abstracts can be submitted using the online facility which is open at <https://secure.cbtttravel.cz/icmp09/abstract-online.php>, both for the invited speakers and those who want to propose a contribution. Abstracts should be in plain text or L^AT_EXform being limited to 2000 characters.

Accommodation

You can order your accommodation using the online form available at the page <https://secure.cbtttravel.cz/icmp09/accommodation-online.php> choosing from the menu, <http://www.icmp09.com/list-of-hotels-prices>, which offers a choice in each category, from five-star hotels to student dormitories.

The organizers take a particular responsibility for arranging the accommodation of some participants such as invited speakers and fellowship receivers; these are asked to send their requests to icmp@ujf.cas.cz.

Important dates

<i>March 31</i>	end of early registration
<i>March 31</i>	fellowship application deadline
<i>March 31</i>	contribution proposal deadline
<i>July 26</i>	end of electronic registration
<i>July 31</i>	YRS opening
<i>August 2</i>	registration, welcome cocktail
<i>August 3</i>	ICMP opening

Programme outline

The ICMP starts on Monday August 3 in the morning and ends on Saturday August 8 at lunchtime. In general, there will be *plenary lectures in the morning* and *topical sessions in the afternoon*. A tentative evening schedule:

Monday: IAMP General Assembly

Tuesday: round table discussion

Wednesday: concert in St Vitus Cathedral

Thursday: congress dinner

Friday: public lecture & Zemlinsky Quartet concert

More on other activities

Some parts of the programme, both scientific and social, were mentioned in the first bulletin. Let us add a few more which are taking shape:

- **Round table discussion** titled “Mathematical physics: future challenges” will be moderated by Joel Lebowitz; a preliminary list of participants contains Michael Berry, Stanislas Leibler and Leonard Susskind
- **Embedded meetings:** several editorial board and other committee meetings will take place during the congress, sessions on human rights and developing countries are under discussion
- **Publisher booths** will exhibit new book and journal production of the leading publishing houses. For the moment we have expressions of interest from Springer, Institute of Physics, EMS Publishing House, and Birkhäuser, more is expected
- **A small exhibition** is under preparation to review the history of congresses on mathematical physics from the first one in 1972
- **Public lecture** under the title “Science in Prague through centuries” mapping the city footprints in mathematics, physics, and astronomy will be given by Ivan Štoll
- **Concerts:** on Wednesday we plan an organ concert in Saint Vitus Cathedral of the Prague Castle, the heart of Prague and the country; we will give the participants also time to overlook this architectural landmark. On Friday the public lecture will be followed by a concert of Zemlinsky String Quartet playing Mysliveček, Dvořák and Janáček
- **Sightseeing:** a half-a-day city tour for accompanying persons, other tours to Prague and various scenic places in the vicinity are available

More is to come, follow the congress web page for updates

Practical information

Travel: Prague has a good air and train connection with most parts of the world. The city transport is inexpensive and reliable

Climate: Typical for central Europe. The afternoon temperatures may be around 25-30 °C, with an occasional rain

Visa: Czech Republic is a part of the *Schengen space*. Those who need visa can get them at the nearest Czech consulate, or that of another EU country. If you are not sure please check the visa waiver information at <http://www.mzv.cz/wwwo/mzv/default.asp?id=25931&ido=7306&idj=2&amb=1>

Any further inquiries about practical aspects of the congress participation should be addressed to the organizers, icmp@ujf.cas.cz.

Satellite meetings

Several satellite conferences, workshops and schools will take place:

“Constructive and Multiscale Methods in Quantum Theory”, Heidelberg University, July 28–30; organized by V. Bach, Ch. Kopper, and M. Salmhofer, <http://www.thphys.uni-heidelberg.de/~salmhof/satellite09.html>

“Algebraic QFT - The first 50 years”, Göttingen University, July 29–31; organized by D. Bahns, D. Buchholz, P. Martinetti, and K.-H. Rehren; <http://www.uni-math.gwdg.de/aqft>

“Mathematical Aspects of Quantum Transport and Applications in Nanophysics”, Aalborg University, August 9–15; organized by Horia Cornean, http://people.math.aau.dk/~cornean/ICMP09_satellite/

“14th International Summer School in Global Analysis and Mathematical Physics”, Palacký University Olomouc, August 10–14; organized by Demeter Krupka, Olga Krupkov, David J. Saunders; <http://globalanal.upol.cz/summer2009/index.html>

“XVII International Fall Workshop on Geometry and Physics”, Benasque, September 6–10; organized by J. F. Cariena, J. N. da Costa; <http://benasque.ecm.ub.es/2009gph/>

About the IAMP

The *International Association of Mathematical Physics (IAMP)* is a worldwide organization founded in 1976 with the aim to promote research in mathematical physics.

Why to become an IAMP member?

The main reason is that the Association offers a platform to represent the interests of mathematical physicists worldwide through which you can exchange ideas, discuss concerns and inform the broader scientific community and the general public about our achievements.

The IAMP is as strong as their members make it. We invite you to join because we think that you share our common interests in promoting mathematical physics. Your becoming a member would be beneficial for you and for our community as well.

Looking at the membership from the practical point of view, several things are useful to mention:

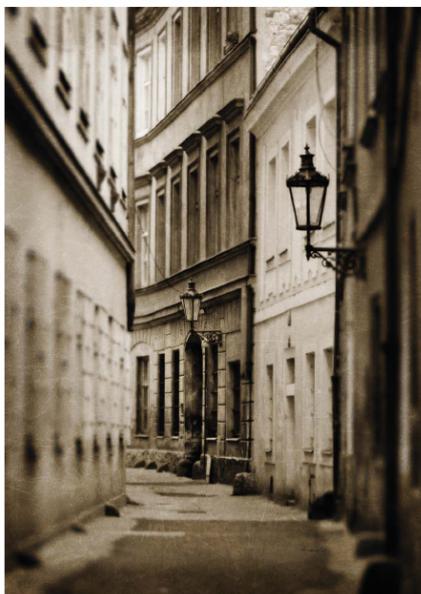
- the membership is cheap, it takes a few clicks to pay the member dues, and in the first year we offer a possibility to waive them
- members in good standing are entitled to reduced registration fees at our triennial congresses
- members receive useful information, in particular, four times a year a bulletin with news about mathematical physics
- major publishers offer discounts on books and journals to IAMP members

How to join the IAMP

It is done easily through the interactive web form, <http://www.iamp.org/>

And finally, take a look at the congress poster:

MnΦ ICMP109 PRAGUE



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PLENARY SPEAKERS:

Vladimir Bazhanov (IANU, Canberra)
 Demetrios Christodoulou (ETH Zurich)
 Lance Dixon (SLAC)
 Bertrand Duplantier (CEA Saclay)
 László Erdős (LMU München)
 Alice Guionnet (ENS Lyon)
 Philip Holmes (Princeton University)
 Roberto Longo (Università di Roma)
 Jens Marklof (University of Bristol)
 Vieri Mastropietro (Università di Roma)
 Nikita Nekrasov (INFN, Borexino-YuFOT)
 Alessandro Pizzo (UC Davis)
 Petr Šeba (Czech Academy of Sciences)
 Robert Seiringer (Princeton University)
 Sylvia Serfaty (Courant Institute)

TOPICAL SESSIONS:

MECHANICS AND DYNAMICAL SYSTEMS
 (Including integrable systems and Hamiltonian stability)
 Igor Krichevsky, Lai-Sang Young

EQUILIBRIUM STATISTICAL MECHANICS
 (classical and quantum)
 Marek Biskup, David Brydges

NON-EQUILIBRIUM STATISTICAL MECHANICS
 (Including stochastic evolutions, except SLE and Boltzmann equation)
 Herbert Spohn, Hong-Tzer Yau

PDES
 (Fluid dynamics, wave equation and NLSE, Boltzmann equation, general relativity, and elasticity)
 Sergiu Klainerman, Grigory Seregin

PROBABILITY THEORY
 (Including random matrices and SLE)
 Yuval Peres, Wendelin Werner

OPERATOR ALGEBRAS
 (Including noncommutative geometry)
 Detlev Buchholz, Masaki Izumi

NONRELATIVISTIC QUANTUM MECHANICS
 (Including quantum information)
 Wiesława Datta, Peter Kuchment

STRING THEORY AND QUANTUM GRAVITY
 Gary Gibbons, Hermann Nicolai

QUANTUM FIELD THEORY
 (Including field theoretic methods in condensed matter)
 Krzysztof Gawędziak, Manfred Salmhofer

MANY-BODY QUANTUM MECHANICS
 (condensed matter, multiscale, elasticity)
 Gian Michele Graf, Jakob Yngvason

NEW FRONTIERS IN MATHEMATICAL PHYSICS
 Yosi Avron, Ruth Durrer, Itzhak Michael Sigal

YOUNG RESEARCHER SYMPOSIUM, JULY 31-AUGUST 1

SPEAKERS INCLUDE:

Rafael Benguria, Anna De Haan, Helmut Hofer, Weimin Wang, Reinhard Werner

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INTERNATIONAL SCIENTIFIC COMMITTEE:

Michael Aizenman
 Ingrid Daubechies
 Pavel Exner
 Jung Fröhlich
 Giovanni Gallavotti, chair
 Yakov G. Sinai
 Jan Philip Solovej

INTERNATIONAL ADVISORY COMMITTEE:

Yosi Avron, David Brydges, Markus Buttiker, Brian Davies,
 Eduard Frenkel, Svetlana Jitomirskaya, Roman Kotěšný,
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 Vincent Rivasseau, Viatcheslav Sidoravicius, Herbert Spohn,
 Pavel Štrfeda, Kenji Yajima, Jakob Yngvason, Jean-Claude Zambirini

LOCAL ORGANIZING COMMITTEE:

Petr Ambrož, Jaroslav Dřinech, Pavel Exner, Miroslav Havlíček,
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 Josef Málek, Edita Palantová, Václav Špička, Miloš Tatar, Jiří Tolár,
 Leopold Vršna, Miloš Zahradník, Miroslav Znojil

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FOR AN UP-TO-DATE INFORMATION ON CONGRESS SITE, REGISTRATION, SATELLITE MEETINGS, ETC., SEE THE CONGRESS PAGE

www.icmp09.com