

## SECOND CIRCULAR

### 33rd INTERNATIONAL COSMIC RAY CONFERENCE

**Rio de Janeiro, July 2-9, 2013**

**Conference Webpage:** <http://www.cbpf.br/icrc2013/>

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The 33rd International Cosmic Ray Conference (ICRC2013) will be held from 2-9 July, 2013, in Rio de Janeiro, Brazil. The Conference is organized under the auspices of the International Union of Pure and Applied Physics (IUPAP) and is hosted by the Centro Brasileiro de Pesquisas Físicas (CBPF). The 33rd ICRC will be conducted in accordance with IUPAP principles. In particular, no bona fide scientist will be excluded from participation on the grounds of national origin, nationality or political considerations unrelated to science. The conference will be held at the SulAmerica Conference Center (<http://www.ccsulamerica.com.br>), in the Cidade Nova, near downtown Rio.

#### 1) Important dates

- Jan 07, 2013      Starting date for abstract submission
- Jan 07, 2013      Starting date for registration and application for financial support
- Mar 01, 2013      Deadline for abstract submission
- Mar 01, 2013      Deadline for application for financial support
- Apr 12, 2013      Notification of acceptance of abstracts
- Apr 12, 2013      Notification of financial support
- May 13, 2013      Deadline for early registration payment
- May 31, 2013      Deadline for paper submission
- Jun 24, 2013      Last date for regular registration payment
- Jul 01, 2013      Last date for corrections on papers
- Aug 16, 2013      Last correction to papers as Errata

\*After this date payment only at the conference desk (1-9 July).

#### 2) Abstract Submission

For abstract submission, please follow the steps described in the ICRC2013 webpage: <http://www.cbpf.br/~icrc2013/abstract.html>.

The starting date for submission is January 7, 2013 and it last until March 1, 2013.

To submit an abstract it is necessary to register at the Conference. The abstracts should be submitted under one of the following classifications:

##### **SH Solar and Heliospheric Physics**

SH-EX - Experimental results

SH-TH - Theory, model and simulations

SH-IN - Methods, techniques and instrumentation

### **CR Cosmic Ray Physics**

- CR-EX - Experimental results
- CR-TH - Theory, model and simulations
- CR-IN - Methods, techniques and instrumentation

### **GA Gamma Ray Astronomy**

- GA-EX - Experimental results
- GA-TH - Theory, model and simulations
- GA-IN - Methods, techniques and instrumentation

### **NU Neutrino Astronomy**

- NU-EX - Experimental results
- NU-TH - Theory, model and simulations
- NU-IN - Methods, techniques and instrumentation

### **DM Dark Matter Physics**

- DM-EX - Experimental results
- DM-TH - Theory, model and simulations
- DM-IN - Methods, techniques and instrumentation

### **Instructions for preparing abstracts:**

The abstracts should contain all relevant information on the contribution. They are the sole basis for the acceptance of the contribution as oral or poster by the scientific program committee. Specifically, it can be longer than what will be printed in the final paper, but not longer than 300 words.

Each presenter can submit a maximum of three abstracts (1 oral presentation + 2 posters). If you submit more than three abstracts, only the last three are going to be considered.

### **3) Registration and fees**

The registration process is now open through the INDICO system at the webpage: <http://www.cbpf.br/~icrc2013/register.html>.

The conference fee can be paid by credit card. In addition, for Brazil residents payment via *boleto bancario* is also offered.

The table below shows the values for different categories and payment dates (for reference, R\$ 1000 is approximately equivalent to EU 376 or US\$ 490).

|                     | Early registration payment | Regular registration payment | On-site registration payment |
|---------------------|----------------------------|------------------------------|------------------------------|
| Participant         | R\$1050                    | R\$1150                      | R\$1200                      |
| Student             | R\$450                     | R\$500                       | R\$550                       |
| Accompanying person | R\$270                     | R\$310                       | R\$350                       |

Online payment for early and regular registration will be available through a secure website whose link is available for the participant in the conference webpage and in

the conference INDICO system during registration. Cancellation policy can be found at <http://www.cbpf.br/icrc2013/payment.html>.

A Carioca Dinner will be held during the conference (not included in the registration fee) and will take place at the **Rio Scenarium** (<http://www.rioscenarium.com.br>), a pleasant ambience, a mixture of antique shop and show house in the bohemian neighborhood of Lapa. There will be a cost of R\$100 per person for this dinner.

#### **4) Financial Support**

Some limited funds may be available to provide partial support to those who otherwise would be unable to attend the conference. Participants who can demonstrate that they require support to attend the conference should inform the conference organizing committee already during the registration process in INDICO page, using the appropriate fields in the registration form.

Applications for support have to be submitted up to 1 March, 2013. Late applications will not be considered. The request for financial support must be well justified. The application letter should describe what specific contributions the applicant plans to make to the conference. Applicants should also describe what other sources of funding would be available to them, since any support that can be provided by the conference will not be sufficient by itself to cover the entire conference cost. A curriculum vitae is also required for financial support request.

#### **5) Prizes and Awards**

##### **IUPAP-TIFR Homi Bhabha Medal and Prize 2013**

The IUPAP-TIFR Homi Bhabha Medal and Prize has been established by the IUPAP and the Tata Institute of Fundamental Research (TIFR), Mumbai (India) in 2010 to honour Homi Jehangir Bhabha, a cosmic ray physicist well-known for Bhabha-Heitler Cascade theory and relativistic electron scattering, also known as Bhabha scattering. Homi Bhabha founded the TIFR in 1945 and initiated the nuclear energy program in India in 1951 with strong support from the well-known philanthropist and industrialist JRD Tata and the Government of India led by the then Prime Minister Jawaharlal Nehru. Homi Bhabha initiated experimental programs for the study of cosmic ray particles and their interactions with instruments either carried aloft to the top of the atmosphere with balloons or placed in laboratories at high altitude or deep underground. The Homi Bhabha Medal and Prize consists of a certificate, a medal, a cheque for US \$ 5000 and an invitation to visit the TIFR, Mumbai to give a public lecture and will be awarded biennially at the International Cosmic Ray Conferences (ICRCs), held generally in odd-numbered years.

The IUPAP-TIFR Homi Bhabha Medal and Prize will be awarded to an active scientist who has made distinguished contributions in the field of high energy cosmic ray physics and astro-particle physics over an extended academic career. The winner of the prize will be selected by the members of the C4 Commission and a senior member of the cosmic ray group at TIFR nominated by the Director, TIFR. The winner of the 2013 prize will be presented a certificate at the ICRC 2013 in Rio de Janeiro, Brazil, in July 2013 and invited to visit the TIFR at a mutually convenient time sometime during the next 2 years to deliver a public lecture. The Director, TIFR will present the Homi Bhabha medal and a cheque for US \$ 5000 to the winner on

this occasion. The winner will be provided with reasonable travel expenses and local hospitality for the visit to Mumbai and other TIFR cosmic ray laboratories in India.

For further information, please visit: <http://www.tifr.res.in/~HomiBhabhaMedal>

The nominations for the prize to be awarded at the ICRC 2013 in Rio de Janeiro in July 2013 should be sent to Johannes Knapp, Chair of the Cosmic Ray Commission (C4) along with supporting information and letters from two co-sponsors at the following address:

Dr Johannes Knapp  
School of Physics and Astronomy  
University of Leeds  
Leeds LS2 9JT, UK  
E-mail: [j.knapp@leeds.ac.uk](mailto:j.knapp@leeds.ac.uk)

Nomination deadline: 28 February 2013  
Self nominations will not be considered.

### **O'Ceallaigh Medal 2013**

The O'Ceallaigh Medal was established by the estate of the late Prof. Cormac O'Ceallaigh and the Dublin Institute for Advanced Studies to honour "outstanding contributions to cosmic ray physics" and is awarded by the IUPAP Commission on Cosmic Rays. The Commission wishes to use this award to recognize significant contributions to our field over an extended career. The selection will be made by a subcommittee of the IUPAP C4 Commission. The medal will be presented at the 33rd ICRC at Rio de Janeiro, Brazil, in July 2013.

For further information, please visit <http://www.dias.ie/astro>

Suggestions for suitable recipients of the medal, together with supporting information, should be sent to Johannes Knapp, Chair of the Cosmic Ray Commission (C4). The sponsor may also wish to ask two co-sponsors to send supporting letters. Nominations should be sent to the following address:

Dr Johannes Knapp  
School of Physics and Astronomy  
University of Leeds  
Leeds LS2 9JT, UK  
E-mail: [j.knapp@leeds.ac.uk](mailto:j.knapp@leeds.ac.uk)

Nomination deadline: 28 February 2013  
Self nominations will not be considered.

### **Yodh Prize 2013**

The Yodh Prize was established in 1998 to recognize a scientist whose research career has made substantial contributions to understanding in the field of Cosmic Rays. The research should have had a major impact in the field. There is no age restriction. The Prize was endowed by Gaurang and Kanwal Yodh to the University of California Irvine Foundation. The awardee will be selected by an international committee of distinguished scientists in the field of Cosmic Rays and Astroparticle Physics. The winner will be invited to visit the University of California, Irvine, to present a colloquium to the faculty and students in the Department of Physics and Astronomy at some time during the following year. The award consists of a prize of

US\$ 2000 and will be presented at the 33rd ICRC at Rio de Janeiro, Brazil, in July 2013.

For further information, please visit <http://hep.ps.uci.edu/~yodhprize>

Nominations supporting the case, including the nominee's curriculum vitae and publication list of the important publications, should be submitted to the Secretary of the Yodh Prize Committee. The sponsor may also wish to ask two co-sponsors to send letters supporting the nomination. Nominations should be sent to the following address:

Prof. Jonathan L. Feng  
Secretary of the Yodh Prize Committee  
Department of Physics and Astronomy  
University of California  
Irvine, CA 92697, USA  
E-mail: [jlf@uci.edu](mailto:jlf@uci.edu)

Nomination deadline: 28 February 2013  
Self nominations will not be considered.

### **IUPAP Young Scientist Awards 2013 (2 Medals)**

The IUPAP Young Scientist Awards have been established in 2006 by IUPAP for recognition of research by young scientists with a maximum of 8 years research experience following a PhD (excluding career interruptions). Any scientist working in a field of interest for the IUPAP C4 Commission is eligible for these awards. The selection will be made by a subcommittee of the IUPAP C4 Commission. Two awards, each consisting of a certificate, a medal and a cheque for Euro 1000, will be presented at the 33rd ICRC at Rio de Janeiro, Brazil, in July 2013.

Nominations supporting the case, including the nominee's curriculum vitae and publication list of the important publications, should be submitted to Johannes Knapp, Chair of the Cosmic Ray Commission (C4). The sponsor may also wish to ask two co-sponsors to send supporting letters. Nominations should be sent to the following address:

Dr. Johannes Knapp  
School of Physics and Astronomy  
University of Leeds,  
Leeds LS2 9JT, UK  
E-mail: [j.knapp@leeds.ac.uk](mailto:j.knapp@leeds.ac.uk)

Nomination deadline: 28 February 2013  
Self nominations will not be considered.

### **Shakti Duggal Award 2013**

The Shakti P. Duggal Award was established in 1983 to recognize outstanding work by a young scientist in the field of cosmic ray physics. The award consists of a prize of US\$ 1200. The winner is invited to visit the Bartol Research Institute at the University of Delaware to present a colloquium at some time during the following year. The intent of this award is to recognize and inspire young cosmic ray scientists early in their careers. The recipient will not have attained the age of 36 on January 1, 2013. Subject to this age limitation, any person from anywhere in the world who has contributed significantly to the field of cosmic ray physics including astro-particle

physics is eligible for consideration. The selection of the prize winner will be made by an International Committee and the prize will be awarded at the inaugural session of the ICRC 2013 in Rio de Janeiro, Brazil, in July 2-9, 2013.

For further information, please see <http://www.bartol.udel.edu/~gaisser/Duggal>

Nominations of potential recipients are now being solicited. Nominators are requested to send to the committee secretariat at the Bartol Research Institute their nominee's curriculum vitae and publication list, a supporting letter, and, if possible, copies of one or two of the candidate's most significant publications. The sponsor may also wish to ask one or two co-sponsors to send letters supporting the nomination. Nominations should be sent to the following address:

Prof. Tom Gaisser,  
Duggal Award Committee,  
Bartol Research Institute, University of Delaware,  
Newark, DE 19716, USA  
E-mail: [gaisser@bartol.udel.edu](mailto:gaisser@bartol.udel.edu)

Nomination deadline: 28 Feb 2013  
Self nominations will not be considered.

## **6) Other important information**

### **Visa**

A valid passport is required for entry into Brazil. Most travellers coming from South America and Europe are not required to get a VISA. To check about the VISA requirement which apply to your country, you may consult:

[http://www.portalconsular.mre.gov.br/antes/qgrv\\_-\\_simples\\_ingles\\_08.10.2012.pdf](http://www.portalconsular.mre.gov.br/antes/qgrv_-_simples_ingles_08.10.2012.pdf)

If you need a VISA to enter Brazil you may look for the nearest consulate at the site:

<http://www.portalconsular.mre.gov.br/>

### **Travel and Accommodation**

The International Airport of Rio de Janeiro is located on an island on the Guanabara Bay easily accessible to the center of town, by bus and taxis. Accommodation is available at a number of hotels located near the Conference Center, with a wide range of prices. Details can be found at the conference web site. We advise you to plan your trip early, because Rio is a touristic city. Especially, in the period around the conference, Rio de Janeiro will host some other big events, like FIFA Confederations Cup, from 15 to 28 June 2013.

There are many other options which can be found using online hotel booking services. We recommend that you restrict your search to the following districts: Copacabana, Ipanema, Botafogo, Flamengo, Catete, Largo do Machado, Centro, Leblon and surroundings.

### **Climate**

July is winter in Rio the Janeiro. However the climate at this part of the year is very mild, requiring at most a light sweater. Temperatures during the day range between 16C to 25C. Rain is not frequent at this time of the year. Average temperatures and rainfall can be found in: <http://www.worldweatheronline.com/Rio-De-Janeiro-weather-averages/Rio-de-Janeiro/BR.aspx>