



## **SECOND CIRCULAR AND CALL FOR PAPERS**

### **"An INTEGRAL view of the high-energy sky (the first 10 years)"**

#### **9<sup>th</sup> INTEGRAL Workshop and celebration of the 10<sup>th</sup> anniversary of the launch**

**15<sup>th</sup> - 19<sup>th</sup> October 2012  
Bibliothèque National de France, Paris, France**

#### **Aims of the Workshop**

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The 9<sup>th</sup> INTEGRAL workshop "An INTEGRAL view of the high-energy sky (the first 10 years)" will take place from the 15<sup>th</sup> to the 19<sup>th</sup> October 2012 in Paris, at the Bibliothèque Nationale de France (*Bibliothèque François Mitterrand*).

During this week, on 17<sup>th</sup> October 2012, we will celebrate the 10<sup>th</sup> anniversary of the launch of the INTEGRAL mission.

The main goal of this workshop is to present and to discuss (via invited, solicited and contributed talks and posters) latest results obtained in the field of high-energy astrophysics using the International Gamma-Ray Astrophysics Laboratory INTEGRAL, as well as results from observations from other ground- and space-based high-energy observatories and from associated multi-wavelength campaigns.

INTEGRAL is ESA's gamma-ray mission within the agency's "Horizon 2000" long term space-science program, in collaboration with Russia and NASA. The spacecraft was launched on 17<sup>th</sup> October 2002 and is currently in its extended science operations phase. INTEGRAL is dedicated to fine spectroscopy (2 keV FWHM @ 1.3 MeV) and fine imaging (12' FWHM, arc-minute source location) of celestial gamma-ray sources in the energy range from 15 keV to 10 MeV with concurrent X-ray (3-35 keV) and optical (V, 550 nm) source monitoring.

#### **Scientific Program**

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The scientific conference will take place from 15<sup>th</sup> October Monday morning to 19<sup>th</sup> October Friday early afternoon, each day from about 9:00 to 17:30, with 2 coffee breaks and a lunch pause.



Wednesday (17<sup>th</sup> October) afternoon is free and tickets for museums or excursions are proposed and included in the registration fee for all participants and in the evening it will take place the celebration of the 10<sup>th</sup> anniversary of the launch.

The scientific program foresees a limited number of review invited talks of 40 min, several solicited talks of 30 min, and for the rest of the time oral contributions of 20 min. Quoted durations include 5 min questions.

The preliminary list of invited speakers includes:

Felix Aharonian (TBC)  
Roger Blandford (TBC)  
Edward van den Heuvel  
Andrew King  
Dieter Hartman

Contributions to the workshop shall cover the following scientific topics:

- X-ray binaries (IGR sources, black holes, neutron stars, white dwarfs)
- Isolated neutron stars (gamma-ray pulsars, magnetars)
- Nucleo-synthesis (SNe, Novae, SNRs, ISM) and gamma-ray lines (511 keV)
- Galactic diffuse continuum emission (including Galactic Ridge)
- Massive black holes in AGNs, elliptical galaxies, nucleus of the Galaxy
- Sky surveys, source populations and unidentified gamma-ray sources
- Cosmic background radiation
- Gamma-ray bursts
- Coordinated observations with other ground- and space-based observatories
- Science data processing and analysis (posters only)
- Future instruments and missions (posters only)

It is expected that, based on community feedback, few oral sessions will be organized in parallel.



## Important dates

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| • First circular                        | 15 October 2011      |
| • Second Circular and registration open | 15 April 2012        |
| • Abstract deadline                     | 15 June 2012         |
| • Scientific program + abstracts on WWW | 15 July 2012         |
| • Registration and payment deadline     | 15 August 2012       |
| • WORKSHOP                              | 15 - 19 October 2012 |
| • Papers due                            | December 2012        |
| • Publication of proceedings (on-line)  | March 2013           |

## Venue Location and General Information

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The 9<sup>th</sup> INTEGRAL workshop will take place in the Conference Hall of the National French Library (*Bibliothèque Nationale de France, site François Mitterrand, Grand Amphithéâtre*), located on the left bank of the river Seine, close to the heart of the city of Paris.

The address is

BNF *François Mitterrand*, Quai François-Mauriac, 75706 Paris Cedex 13

See [http://www.bnf.fr/en/bnf/address\\_transport/s.address\\_transports\\_fm.html](http://www.bnf.fr/en/bnf/address_transport/s.address_transports_fm.html) for map, directions and transports information.

Direction information to reach Paris and the conference venue are reported in the Location page of the conference WEB site.

Some general information about Paris, the weather in October and web links for tourist information can be found at: <http://en.parisinfo.com/>



## **Registration**

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The workshop registration is now open and can be performed via the link that can be found at the Registration page of the conference WEB site:

<http://integralworkshop2012.in2p3.fr/Registration.html>

Expected participants are invited to preregister as soon as possible and then perform the final payment and registration before the early registration deadline.

A registration fee of 350 Euro will be charged to each participant, except students for whom the fee is 250 Euro. There is very limited financial support available in special cases.

**The early registration and payment deadline is 15th August 2012.**

After this deadline the registration fee will be 400 Euro and 300 Euro for students.

**Payment can be done only by credit card or bank transfer; no cash payment will be accepted.**

Social events including the celebration conference dinner are included in the registration fee. Social event tickets for accompanying persons shall be requested and payed at the moment of the final registration payment.

## **Abstract Submission**

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Abstract of proposed oral and poster contributions shall be submitted through the Abstract page of the conference WEB site after pre-registration:

<http://integralworkshop2012.in2p3.fr/Abstracts.html>

**Abstract submission deadline is 15th June 2012**

Accepted abstracts and the scientific program will be available on the internet before 15<sup>th</sup> July 2012.

Papers describing instruments, future missions, technology, and data analysis methods can be accepted as posters only. Poster presentations shall be prepared using AO format or smaller. However, it is expected that, based on community feedback, each poster will not be displayed during the entire week of the workshop. The organizers also plan to provide on-line access to the posters in addition to their physical display. The authors will be therefore required to provide a PDF version of their poster.



## **Travel support**

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As with all past INTEGRAL workshops, the organizers will make all efforts to provide some financial support to help participants as needed (e.g. early stage scientists) to attend the workshop.

Travel support relies solely on very limited funds, which may become available through sponsors. Request shall be made after pre-registration at the e-mail conference address.

## **Invitation Letters for Visa**

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Invitation letters to obtain a French visa shall be requested to the workshop secretary (see the contact page for the address) by e-mail as soon as the pre-registration is performed.

## **Social Events**

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The registration fee includes tickets for the social events of the conference, which are:

- A welcome cocktail on the evening of the first day of the conference at the BNF.
- Cocktail and conference dinner during the celebration of the 10<sup>th</sup> anniversary of launch.
- Tickets for Wednesday afternoon visiting tours:
  - *Musée du Louvre* or
  - *Musée d'Orsay* or
  - Tour on *Bateaux Mouche* or
  - Excursion walks in Paris.

Participants will have to pay for their accompanying persons at the social events at the moment of the registration payment.





## **Accommodations**

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A list of hotels close to the workshop venue is reported in the Accommodation page of the conference WEB site along with other general information.

Participants are invited to make their own reservation, well in advance of the conference period, since Paris is a very busy and touristic destination and a very important and popular event is expected to take place in Paris the week before the conference. No reservation will be handled by the LOC.

## **Workshop Proceedings**

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All contributions (invited, contributed oral and posters) will be refereed via the Science Advisory Committee (SAC). Refereed contributions will be published on-line via Proceedings of Science <http://pos.sissa.it>  
Scientific editors are F. Lebrun, A. Goldwurm and C. Winkler.

Further information and instructions to authors for the preparation of manuscripts will be provided in due course.

To guarantee publication of a contribution it must have been presented (orally or as a poster) by the lead author or by one of the co-authors during the workshop.

## **Sponsors**

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The workshop is jointly sponsored by:

- Centre National Etudes Spatiales (CNES)
- European Space Agency (ESA)
- Commissariat à l'Énergie Atomique et aux Énergies Alternatives (CEA): avec la Direction des Sciences de la Matière (DSM) et l'Institut sur les Lois Fondamentales de l'Univers (IRFU)
- Centre National de la Recherche Scientifique (CNRS)
- Campus Spatiale de l'Université Paris 7 *Denis Diderot*
- Domain d'Intérêt Majeur sur l'Astrophysique et les Conditions d'Apparence de la Vie (DIM ACAV) de l'Île de France
- Groupement De Recherche Phénomènes Cosmiques de Haute Énergie (GDR PCHE)
- Laboratoire AstroParticule et Cosmologie (APC) de Paris
- Laboratoire Astrophysique, Instrumentation et Modélisation (AIM) de Saclay
- Institut de Recherche en Astrophysique et Planétologie (IRAP) de Toulouse



**Scientific Advisory Committee (SAC)**

- =====
- François Lebrun (chair), APC and SAp/CEA, Paris, France
  - Angela Bazzano, INAF/IASF, Rome, Italy
  - Søren Brandt, DTU, Copenhagen, Denmark
  - Roland Diehl, MPE, Garching, Germany
  - Maurizio Falanga, ISSI, Bern, Switzerland
  - Neil Gehrels, NASA-GSFC, Greenbelt Md, USA
  - Andrea Goldwurm, APC and SAp/CEA, Paris, France
  - Sergei Grebenev, Space Research Institute, Moscow, Russia
  - Wim Hermsen, SRON, Utrecht, The Netherlands
  - Margarita Hernanz, IEEC-CSIC, Barcelona, Spain
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  - Peter Kretschmar, ESA-ESAC, Madrid, Spain
  - Miguel Mas-Hesse, INTA, Madrid, Spain
  - Mark McConnell, University of New Hampshire, Durham NH, USA
  - Giorgio Palumbo, University of Bologna, Italy
  - Konstantin Postnov, Sternberg Astronomical Institute, Moscow, Russia
  - Mikhail Revnivtsev, Space Research Institute, Moscow, Russia
  - Jean-Pierre Roques, IRAP, Toulouse, France
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  - Pietro Ubertini, INAF/IASF, Rome, Italy
  - Jacco Vink, SRON, Utrecht, The Netherlands
  - Roland Walter, ISDC, Geneva, Switzerland
  - Jörn Wilms, Universität Erlangen-Nürnberg, Germany
  - Christoph Winkler, ESA-ESTEC, Noordwijk, The Netherlands

**Local Organizing Committee (LOC)**

- =====
- Andrea Goldwurm (Chair)
  - Sarodia Vydelingum (Secretary)
  - Laurence Amen (CNES)
  - Volker Beckmann
  - Isabel Caballero
  - Elisabeth Jourdain
  - Olivier La Marle (CNES)
  - François Lebrun
  - Fabio Mattana
  - Jerome Rodriguez
  - Jean-Pierre Roques
  - Stéphane Schanne
  - Simona Soldi
  - Juan A. Zurita Heras



## Contact Addresses

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Workshop LOC E-mail: [IntegralWorkshop2012@apc.univ-paris7.fr](mailto:IntegralWorkshop2012@apc.univ-paris7.fr)

Workshop page: <http://IntegralWorkshop2012.in2p3.fr>

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## Celebration of the 10<sup>th</sup> anniversary of the INTEGRAL launch

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The celebration of the 10<sup>th</sup> anniversary of the launch of INTEGRAL will take place on the evening of Wednesday 17<sup>th</sup> October 2012 in the reception hall of the Town Hall of the 13<sup>th</sup> Arrondissement of Paris (*Salle de receptions de la Mairie du 13<sup>eme</sup> Arrondissement de Paris*), the Paris quarter that hosts the BNF and the University of Paris 7 Denis Diderot.

The celebration will include a cocktail and the gala dinner of the conference.

A public lecture (in French) for the citizens of Paris will be given by Dr. Jacques Paul in the 13<sup>th</sup> Arr. Town Hall on the evening of Thursday 18<sup>th</sup> October.





## Outreach Events

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An outreach manifestation associated to the workshop and sponsored by the Mayor of the 13<sup>th</sup> Arrondissement of Paris is organized for the citizens of Paris.

It will take place during the 15-19 October week in the premises of the Town Hall of the 13<sup>th</sup> Arr. of Paris (*Salle de Réceptions de la Mairie du 13<sup>eme</sup> Arrondissement de Paris et pièces adjacentes*), the Paris quarter that hosts the BNF and the University of Paris 7 Denis Diderot.

It will consist of

- An exposition of panels, models and experiments concerning gamma-ray astronomy in the room adjacent to the Town Hall Reception Hall during the whole week.
- A public lecture (in French) for the citizens of Paris by Dr. Jacques Paul in the Reception Hall on the evening of Thursday 18<sup>th</sup> October.

The Outreach Event is organized by the outreach teams of AIM, APC and CNES and in particular by:

L. Amen (CNES)

B. Cordier (AIM/IRFU)

A. Goldwurm (APC/IRFU)

C. Gouiffes (AIM/IRFU)

J.-L. Robert (APC/IN2P3)

