

Adamantia Paizis

Curriculum Vitae

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Born in Milan on 30/11/1972. Nationality: Italian/Greek

EDUCATION

- Ph.D in Astrophysics (*INTEGRAL*¹ Science Data Centre, University of Geneva, Switzerland, 2004);
- International Certificate of Astronomy and Astrophysics (University of Geneva, Switzerland, 2002);
- Laurea in Physics (equivalent Master's degree): 110/110 Cum Laude (University of Milan, Italy, 1999).

EMPLOYMENT HISTORY

- 2010 – current: permanent position as scientific researcher at Istituto Nazionale di Astrofisica (INAF, Milano);
- 2005 – 2010: time-limited contract as scientific researcher (“Articolo 23”) at INAF, Milano;
- 1999 – 2005: fellowship “Italian participation at the *INTEGRAL Science Data Centre*”. Assigned to ISDC, Geneva.

ADDITIONAL FELLOWSHIPS / FUNDING OBTAINED AS PI

- Winner of the post-doctoral fellowship of the *Japan Society for the Promotion of Science* (JSPS) for a collaboration with Professor K. Ebisawa at the *Institute of Space and Astronautical Science* (ISAS, Japan). March-April 2008;
- PI of the research project that led to financial support from local funding (INAF-IASF Milano, DD N. 03/06) for the project “Study of LMXBs”. Period: 1 year (2006).

RESEARCH ACTIVITIES

- High energy astrophysics: data analysis and interpretation of X-ray binaries high energy emission; accretion onto compact objects (stellar mass black hole, neutron stars);
- Follow-up of *INTEGRAL* new sources in X-rays (*Chandra*, *RXTE*, *Swift*), radio (*ATCA*, *Ryle*), optical, NIR (*NTT*);
- Preparation and maintenance of an archive with data and the results from all *INTEGRAL* public data together with tools to browse and display the results (at disposal of the high energy group at IASF, Milano);

¹*INTERNATIONAL GAMMA RAY ASTROPHYSICS LABORATORY*

- Hardware: laboratory experience focussed on the calibration of an intensified CCD detector for astronomy;

PUBLICATIONS & PI-PROPOSALS

- 197 publications, among which 39 in refereed journals
- PI of 15 proposals to obtain *INTEGRAL* (AO: 4, 5, 6, 7), *Chandra* (AO: 5, 6, 7, 9, 10, 11) and *RXTE* (AO: 8, 9) proprietary data (2003- ongoing).

CONTRIBUTION TO INTERNATIONAL HIGH ENERGY MISSIONS

- ***INTEGRAL***
 - ✓ coordinator of the *INTEGRAL* Core Programme LMXB data analysis group (2002-2005);
 - ✓ part of the IBAS (*INTEGRAL* Burst Alert System) team (Milano, 2005 - ongoing) to detect in real time Gamma Rays Bursts (GRBs) by processing the telemetry coming from the spacecraft;
 - ✓ scientist on duty (Geneva, 2002 – 2005). The task consisted in monitoring *INTEGRAL* operations, sending alerts to the instrument teams and/or scientific community whenever unexpected events occurred, be they instrumental or from the sky (GRBs, new sources, Target of Opportunity etc);
 - ✓ member of the team responsible for the scientific validation and testing of the *INTEGRAL*/IBIS-ISGRI data analysis software (Geneva, 2002 – 2005);
 - ✓ co-writer of the *INTEGRAL*/IBIS-ISGRI Data Analysis Cookbook (version 5.0), released to the scientific community;
 - ✓ responsible of the *INTEGRAL* Observation Simulator (OSIM, 1999-2002): integration, testing. OSIM helped the scientific community to study the feasibility of *INTEGRAL* observations, as well as the testing of the scientific analysis software developed by the instrument teams and ISDC;
 - ✓ author of the OSIM user manual distributed to the scientific community;
 - ✓ coordinator of the hands-on session on OSIM at the “Observing with *INTEGRAL*” school, March 29th - April 1st 2000, Les Diablerets, Switzerland.
- ***Simbol -X***
 - ✓ member of the working group for the Ground Segment definition (Milano, 2008-2009);
 - ✓ co-author of the Simbol-X Ground Segment User Requirement and Interface Requirement Documents.
- ***EXIST***: member of the Transients Science Working Group (Milano, 2008 - ongoing);
- ***Chandra***: member of the Time Allocation Committee, AO 10 (Boston, June 2008)

INVITED SEMINARS

- Invited seminar at INAF/IASF, May 2009, Rome;
- Invited seminar at the Institute of Space and Astronautical Science (ISAS), March 2008, Tokyo, Japan;
- Invited seminar at the Department of Astronomy of the Kyoto University, March 2008, Kyoto, Japan;
- Invited seminar as *INTEGRAL/IBIS* expert at the “INTEGRAL Data Analysis Workshop”, November 2005, NASA/GSFC;
- Invited seminar as *INTEGRAL/IBIS* expert at the “INTEGRAL Data Analysis Workshop”, October 2005, INTEGRAL Science Data Centre, Geneva;

FORMATION AND OUTREACH ACTIVITIES

- Member of the Italian Regional Committee in the Olimpiads of Astronomy 2009;
- Member of the Italian Regional Committee in the Olimpiads of Astronomy 2010;
- Student formation:
 - ✓ Co-advisor for a Laurea thesis in Physics of L. Ducci (*Study of accreting Galactic binary systems using the Gamma Ray satellite INTEGRAL*; University of Milano, Defense: October 2007);
 - ✓ Advisor for a Laurea thesis in Physics of L. Mainardi (*Study of the high energy emission from neutron star LMXBs with INTEGRAL*; University of Milano, Defense: April 2009);
- Organizer of weekly scientific seminars (*Astro-Siesta*) involving all IASF-INAF Milano staff in order to share the available knowledge and stimulate collaborations within the different groups (on-going since January 2007). Speakers from National Council of Research and other research structures are invited, to have an overview of the on-going scientific activities in many fields;
- Organizer of monthly meetings (*Astro-Chat*) involving the high energy IASF-INAF, Milano, staff in order to enhance a systematic communication at all levels (science, available funding, conferences, student status, etc) within the group (November 2009 – ongoing);
- Participant to the day “Ricerca e comunicare”, January 2009, organized by the National Council of Research (CNR).

FOREIGN LANGUAGES

Italian: mother-tongue

Greek: mother-tongue

English: excellent spoken and written (*Certificate of Proficiency in English*, Cambridge ESOL Exam)

French: excellent spoken, average written.

Milano, July 5th, 2010