



María Dolores Caballero García

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Date of document: 18/01/2023

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Summary of CV

This section describes briefly a summary of your career in science, academic and research; the main scientific and technological achievements and goals in your line of research in the medium -and long- term. It also includes other important aspects or peculiarities.

My research work (since 2006) has mainly focused in the study of X-ray emission of compact objects (BH, i.e. black holes) both from an observational and a theoretical point of view. Previously, I obtained my master thesis in 2003 working in the development of the "Input Catalogue for the Optical Monitoring Camera on-board the INTEGRAL satellite". I obtained the PhD in 2008 (max. qualification Cum-Laude) working at the European Space Astronomy Centre in Madrid (ESA) and studying the hard X-ray emission from BHs (PhD thesis entitled "Study of galactic black holes with the INTEGRAL mission" with J. M. Mas-Hesse as my PhD thesis supervisor).

I have developed my career through **5 postdocs at U. of Cambridge (UK, 2008-2009), U. of Crete (Greece, 2010), O. Astronomico di Brera (Italy, 2011-2013) and at Prague (Czech Republic, 2014-2020)** first at the Czech Technical University and secondly at the Astronomical Institute of the Czech Academy of Sciences. During this time I have become an specialist in X-ray astronomy of accreting BHs (stellar, medium size and supermassive), with a special emphasis in the (X-ray spectroscopy and timing) analysis of their X-ray data from X-ray missions (INTEGRAL, XMM-Newton, Suzaku, Swift, etc.). As a result of this research I have > 200 publications with > 5000 citations from which **4 are in Nature and 3 in Nature Astronomy** (2009-2021), covering the topic of my current grant as a PI). In total **I have participated in > 10 projects** (funded by FP7 EU, STFC, INAF, GACR, ESA, CSIC, etc.) in 5 different countries (including Spain; U. of Barcelona and ESA-INTA-CSIC at Madrid) **acting as a PI in two of them**. I have given > 50 talks in international conferences, with > 10 Invited (including IAU and EAS). Currently I am back to Spain with a **Ramon y Cajal 2019 fellowship**.

I was the Principal Investigator (PI) of the 3 year-long GACR project, GA18-00533S (164000 euro/total) entitled "Reverberation from black hole accretion discs" funded by the Czech Grant Agency (GACR) to be held in Prague (ASU-CAS, Czech Republic) until Dec 2020 (starting date: 1 Jan 2018). With this grant I was extending my observational work helping in the development of a new code for the study of the physical processes occurring in the close vicinity of BHs, where effects due to General Relativity are important. This project led to a paper published in Nature Astronomy (2020).

I was also serving to the Study Science Team (SST, which is a group of leading experts in the field) of the pre-selected ESA M5 mission THESEUS where I was also Chair of its Science Working Group called "Time-domain Astronomy" during its phase A. Currently this mission is under Phase-II evaluation for the ESA M7 call.



Additionally I am participating in the optical follow-up of Gravitational Wave Source events detected by the LIGO/VIRGO experiment and in the understanding of physical processes leading the extreme X-ray emission from other highly energetic astrophysical transient events.
Teaching:

- Previous supervisor of Master Thesis work at VIU and current professor of the Master Universitario en Física y Matemáticas (FISyMAT), Universidad de Granada, (Spain).

Scientific production:

H-index: 22 (Scholar)

Total number of citations: 5429 (Scholar)

General quality indicators of scientific research

This section describes briefly the main quality indicators of scientific production (periods of research activity, experience in supervising doctoral theses, total citations, articles in journals of the first quartile, H index...). It also includes other important aspects or peculiarities.

- I am Principal Investigator (PI) of the (INTRAMURAL-CSIC) 2 year-project (100,000 euro/total) entitled “Mision THESEUS de ESA: desarrollo del proyecto” funded by the Spanish Research Council (CSIC) and the Instituto de Astrofisica de Andalucia (IAA) to be held in IAA (CSIC, Spain).
- I have participated in space missions (such as ESA's INTEGRAL gamma-ray observatory).
- **I was serving as member of the ESA Science Study Team for the THESEUS (M5) mission representing Spain during its phase A.** I was also Chair of the scientific Advisory Team of the “Transient High Energy Sky and Early Universe Surveyor” (THESEUS) in the Working Groups of “Time-domain Astronomy”. Currently this mission is under Phase-II evaluation for the ESA M7 call.
- I am also member of the “Open Ligo/VIRGO ElectroMagnetic (OpenLVEM) forum”, that is the consortium of observers/scientists for the observation and understanding of Gravitational Wave events (founded in Jan 2018).
- I am co-I of the world-wide network of robotic telescopes (BOOTES) led at IAA-CSIC (Spain).

Journal Peer-Reviewed Publications:

- I have authored or co-authored a total of 207 publications (84 in ISI and 50 in first quartile journals). In 51 of them I am acting as first author (with the first one being published in 2007). 15 of these research works which I am leading have been published in high-impact journals such as ApJ, MNRAS and A&A. I have co-authored 4 in Nature plus another 3 in Nature Astronomy. I have also participated in the publication on the discovery of the first electromagnetic counterpart of a Gravitational Wave event (Abbott et al., 2017).

Reviewer:

- I am reviewer of high-impact refereed publications such as the Astrophysical Journal (ApJ), Astronomy and Astrophysics (A&A), Monthly Notices of the Royal Astronomical Society (MNRAS) and Revista Mexicana de Astrofisica (RMxA) and in proceedings such as the Proceedings of Science (PoS), Astronomische Nachrichten (AN) and Acta Polytechnica (AcPol).



Conferences and participations:

- I have participated in a total of > 70 conferences and/or scientific events with contributions in the form of a talk/seminar for > 50 of them (>10 as an Invited Talk in international symposia).
- I have been member of the Scientific Organizing Committees for 5 international conferences (including COSPAR in 2016, EAS in 2019, AtroRobs in 2015-2019 and THESEUS Science Conference, 2020).

Editing of journals or proceedings:

- Co-editor for the proceedings of the 4th, 5th and 6th Workshops on Robotic Autonomous Observatories (AstroRob), all held in Spain in 2015, 2017 and 2019.

Teaching:

- Previous supervisor of a Master Thesis work at VIU and current professor of the Master Universitario en Física y Matemáticas (FISyMAT), Universidad de Granada, (Spain).

Scientific production:

H-index: 22 (Google scholar)

H1(as first author)=10

Total number of citations: 5429

María Dolores Caballero García

Surname(s): **Caballero García**
Name: **María Dolores**
ORCID: **0000-0001-7920-4564**
ResearcherID: **D-5659-2017**
Date of birth: **10/05/1978**
Gender: **Female**
Nationality: **Spain**
Country of birth: **Spain**
Aut. region/reg. of birth: **Catalonia**
Contact aut. region/reg.: **Andalusia**
Personal web page: **<https://orcid.org/0000-0001-7920-4564>**

Current professional situation

Employing entity: Spanish National Research Council (CSIC) **Type of entity:** Public Research Body

Department: Instituto de Astrofísica de Andalucía (IAA)

Professional category: Researcher (Ramon y Cajal)

Start date: 01/01/2021

Type of contract: Temporary employment contract **Dedication regime:** Full time

Primary (UNESCO code): 210000 - Astronomy & Astrophysics

Secondary (UNESCO code): 229000 - Physical High-Energy

Performed tasks: I am a scientific researcher (under the Ramon y Cajal programme) at Instituto de Astrofísica de Andalucía (IAA-CSIC). My field of research is the multi-wavelength study of collapsed stars (both theoretical and observational). I am involved in large facilities (LIGO/VIRGO, GTC, CAHA, OSN) and space instrumentation (SVOM, ASIM, XMM-Newton).

Identify key words: Physics & space science

Previous positions and activities

	Employing entity	Professional category	Start date
1	Astronomical Institute of the Czech Academy of Sciences	Senior Scientific Researcher	01/01/2018
2	Astronomical Institute of the Czech Academy of Sciences	Postdoctoral.	01/10/2015
3	Czech Technical University in Prague, Faculty of Electrical Engineering	Postdoctoral	22/04/2014
4	Osservatorio Astronomico di Brera	Postdoctoral	01/09/2011
5	Department of physics at University of Crete	Postdoctoral	01/10/2010
6	Institute of astronomy at University of Cambridge	Postdoctoral	01/03/2008

	Employing entity	Professional category	Start date
7	Laboratorio de Astrofísica Espacial y Física Fundamental	Predoctoral	01/09/2003

- Employing entity:** Astronomical Institute of the Czech Academy of Sciences
Professional category: Senior Scientific Researcher
Start-End date: 01/01/2018 - 31/12/2020
Duration: 3 years
Type of entity: R&D Centre
- Employing entity:** Astronomical Institute of the Czech Academy of Sciences
Professional category: Postdoctoral.
Start-End date: 01/10/2015 - 31/12/2017
Duration: 2 years - 3 months
Type of entity: R&D Centre
- Employing entity:** Czech Technical University in Prague, Faculty of Electrical Engineering
Professional category: Postdoctoral
Start-End date: 22/04/2014 - 30/09/2015
Duration: 1 year - 5 months
Type of entity: University
- Employing entity:** Osservatorio Astronomico di Brera
Professional category: Postdoctoral
Start-End date: 01/09/2011 - 31/08/2013
Duration: 2 years
Type of entity: R&D Centre
- Employing entity:** Department of physics at University of Crete
Professional category: Postdoctoral
Start-End date: 01/10/2010 - 28/02/2011
Duration: 8 months
Type of entity: University
- Employing entity:** Institute of astronomy at University of Cambridge
Professional category: Postdoctoral
Start-End date: 01/03/2008 - 30/09/2009
Duration: 18 months
Type of entity: University
- Employing entity:** Laboratorio de Astrofísica Espacial y Física Fundamental
Professional category: Predoctoral
Start-End date: 01/09/2003 - 31/08/2007
Duration: 4 years
Type of entity: Public Research Body



Education

University education

1st and 2nd cycle studies and pre-Bologna degrees

- 1** **University degree:** Higher degree
Name of qualification: Ramon y Cajal fellowship
Degree awarding entity: Ministerio de Ciencia e Innovación. Investigación
Date of qualification: 01/01/2021
Type of entity: Spanish Research Council
- 2** **University degree:** Higher degree
Name of qualification: Attestation of V5B (Senior Scientific Researcher) Academic level (within V3A-V6)
Degree awarding entity: Astronomical Institute of the Czech Academy of Sciences
Date of qualification: 16/10/2017
- 3** **University degree:** Higher degree
Name of qualification: Attestation of V5A (Scientific Researcher) Academic level (within V3A-V6)
Degree awarding entity: Astronomical Institute of the Czech Academy of Sciences
Date of qualification: 25/11/2015
- 4** **University degree:** Doctorate
Name of qualification: Tesis doctoral (PhD)
Degree awarding entity: Universitat de Barcelona
Date of qualification: 27/06/2008
Type of entity: University
- 5** **University degree:** Master
Name of qualification: Diploma de estudios avanzados (Máster en Astrofísica en el Dpto. de Astronomía y Meteorología de la UB)
Degree awarding entity: Universitat de Barcelona
Date of qualification: 15/09/2003
Type of entity: University
- 6** **University degree:** Higher degree
Name of qualification: Licenciado en Ciencias Físicas
Degree awarding entity: Universitat de Barcelona
Date of qualification: 27/09/2001
Type of entity: University

Doctorates

Doctorate programme: Astronomía y meteorología

Degree awarding entity: Universitat de Barcelona

Type of entity: University

Date of degree: 08/07/2008

Language skills

Language	Listening skills	Reading skills	Spoken interaction	Speaking skills	Writing skills
Czech	A1	A1	A1	A1	A1
Catalan	C1	C1	C1	C1	C1
Spanish	C1	C1	C1	C1	C1
English	C1	C1	C1	C1	C1
Italian	C1	C1	C1	C1	C1

Teaching experience

Experience supervising doctoral thesis and/or final year projects

- Project title:** Supervisor of the Master Thesis entitled “Fase de explotación de datos de la red de telescopios robóticos BOOTES”

Entity: Valencian International University (VIU) **Type of entity:** University Centres and Structures and Associated Bodies

Student: David López Bellón

Date of reading: 01/06/2022
- Project title:** Professor at the Course of “Técnicas observacionales en Astrofísica”

Entity: Máster Universitario en Física y Matemáticas (FISyMAT), Universidad de Granada, (Spain).

Date of reading: 01/01/2022
- Project title:** Member of the thesis panel of 4 Master Thesis Works

Entity: Master Universitario de Astronomía y Astrofísica from Valencia's International U. (VIU)

Date of reading: 20/12/2016
- Project title:** Member of the thesis panel of 8 Master Thesis Works

Entity: Master Universitario de Astronomía y Astrofísica from Valencia's International U. (VIU)

Date of reading: 16/12/2015
- Project title:** Summer School FEL (Faculty of Electronics – Czech Technical University)

Entity: Masarykova Kolej, Prague (Czech Republic)

Date of reading: 21/09/2015
- Project title:** Course of Accretion onto black holes (Master in Astrophysics) during 20-22th Dec. 2010

Entity: Universitat Autònoma de Barcelona **Type of entity:** University

Date of reading: 22/12/2010



- 7** **Project title:** Supervisor of the PartIII project (equivalente a proyecto fin de carrera)
Entity: University of Cambridge **Type of entity:** University
Student: Yan Yi Li
Date of reading: 01/06/2009

Scientific and technological experience

Scientific or technological activities

R&D projects funded through competitive calls of public or private entities

- 1** **Name of the project:** Spanish Network on Gravitational Waves (REDONGRA)
Entity where project took place: IFAE/UAB **Type of entity:** R&D Centre
City of entity: Cerdanyola del Vallès, Catalonia, Spain
Name principal investigator (PI, Co-PI....): MARIO MARTINEZ PEREZ
Nº of researchers: 10
Start-End date: 01/10/2022 - 01/10/2024
Total amount: 40.000 €
- 2** **Name of the project:** Principal Investigator (PI) of the (INTRAMURAL-CSIC) project entitled "Misión THESEUS de ESA: desarrollo del proyecto"
Entity where project took place: Spanish National Research Council **Type of entity:** Public Research Body
City of entity: Granada, Andalusia, Spain
Name principal investigator (PI, Co-PI....): Maria Caballero Garcia
Nº of researchers: 2
Start-End date: 01/09/2021 - 30/09/2023
Total amount: 100.000 €
- 3** **Name of the project:** Principal Investigator (PI) of the project entitled "Reverberation from black hole accretion discs"
Entity where project took place: Astronomical Institute of the Czech Academy of Sciences
City of entity: Czech Republic
Name principal investigator (PI, Co-PI....): Maria D. Caballero-Garcia; Michal Dovciak; Michal Bursa
Nº of researchers: 3
Funding entity or bodies: Grant Agency of the Czech Republic
City funding entity: Czech Republic
Start-End date: 01/01/2018 - 31/12/2020
Total amount: 160.000 €
- 4** **Name of the project:** La red global BOOTES para investigación astrofísica y detección de basura espacial y participación española en la misión SVOM
Entity where project took place: Instituto de Astrofísica de Andalucía **Type of entity:** State agency
Funding entity or bodies:



Ministerio de Economía y Competitividad

Start-End date: 01/01/2016 - 31/12/2018

Total amount: 122.000 €

5 Name of the project: EU FP7-SPACE research project “ Strong Gravity”

Entity where project took place: Several countries/institutions across Europe and coordinated in the Czech Republic.

Nº of researchers: 50

Start-End date: 01/01/2013 - 31/12/2017

Total amount: 2.600.000 €

6 Name of the project: European social fund within the framework of realizing the project “Support of inter-sectoral mobility and quality enhancement of research teams at Czech Technical University in Prague”

Entity where project took place: Czech Technical University in Prague, Faculty of Electrical Engineering

Type of entity: University

City of entity: Prague, Praha, Czech Republic

Nº of researchers: 50

Funding entity or bodies:

European social fund.

Type of entity: Public Research Body

Start-End date: 21/04/2014 - 30/09/2015

7 Name of the project: INAF International Fellowship

Entity where project took place: Osservatorio Astronomico di Brera

City of entity: Merate, Lombardia, Italy

Name principal investigator (PI, Co-PI....): Maria D. Caballero Garcia; Tomaso Belloni

Nº of researchers: 2

Start-End date: 01/09/2011 - 31/08/2013

Total amount: 60.000 €

8 Name of the project: EU FP7-Capacities funded grant

Entity where project took place: University of Crete **Type of entity:** University

City of entity: Heraklion, Kriti, Greece

Start-End date: 01/10/2010 - 28/02/2011

9 Name of the project: STFC rolling grant

Entity where project took place: University of Cambridge

Type of entity: University

City of entity: Cambridge, United Kingdom

Start-End date: 01/03/2008 - 30/09/2009

10 Name of the project: Desarrollo, operación y explotación de los satélites espaciales: INTEGRAL-OMC, BEPICO-MIX y PLATO

Entity where project took place: Laboratorio de Astrofísica Espacial y Física Fundamental

Type of entity: Public Research Body

City of entity: Community of Madrid, Spain

Start-End date: 01/01/2008 - 01/03/2008

- 11** **Name of the project:** International Gamma-Ray Astrophysical Laboratory: Fase operacional de la Camara optica OMC (ESP2005-07714-C03-03)
Entity where project took place: Laboratorio de Astrofísica Espacial y Física Fundamental
City of entity: Community of Madrid, Spain
Start-End date: 01/01/2005 - 01/01/2008
Type of entity: Public Research Body
- 12** **Name of the project:** International Gamma-Ray Astrophysical Laboratory: Fase operacional de la Camara optica OMC (ESP2002-04124-C03-01)
Entity where project took place: Laboratorio de Astrofísica Espacial y Física Fundamental
City of entity: Community of Madrid, Spain
Start-End date: 01/09/2003 - 01/01/2005
Type of entity: Public Research Body
- 13** **Name of the project:** GAIA : Desarrollo del proyecto
Entity where project took place: Universitat de Barcelona
City of entity: Barcelona, Catalonia, Spain
Start-End date: 01/09/2001 - 01/01/2004
Type of entity: University
- 14** **Name of the project:** Convenio para la definición y realización del plan piloto para la evaluación y reducción de la contaminación lumínica en Catalunya
Entity where project took place: Universitat de Barcelona
City of entity: Barcelona, Catalonia, Spain
Start-End date: 01/09/2001 - 01/01/2002
Type of entity: University

R&D non-competitive contracts, agreements or projects with public or private entities

- 1** **Name of the project:** Member of the Science Study Team for the preselected ESA-M5 THESEUS mission representing Spain.
Degree of contribution: Coordinator of total project, network or consortium
Name principal investigator (PI, Co-PI....): María
Nº of researchers: 200
- 2** **Name of the project:** UMA proposal to ESA AO/1-11022/21/NL/GLC/my. Wide-Field Telescope Array (WTA)
Degree of contribution: Researcher
Nº of researchers: 8
Funding entity or bodies: European Space Agency (ESA)
Total amount: 150.000 €
Type of entity: State agency

Scientific and technological activities

Scientific production

Publications, scientific and technical documents

- 1** E. Troja et al.. A long gamma-ray burst from a merger of compact objects. NATURE. (arXiv:2209.03363), 09/2022.
Type of production: Scientific paper **Format:** Journal
Corresponding author: No
- 2** I. Perez-Garcia; et al.. Detection with the BOOTES Network of the current outburst in the dwarf-nova ASASSN-14fc. The Astronomer's Telegram. 15374, 05/2022.
Type of production: Scientific paper **Format:** Scientific and technical document or report
Corresponding author: No
- 3** Y. Hu; et al.. GRB 220430A: CAHA 2.2m telescope optical limit. GRB Coordinates Network. 31980, 05/2022.
Type of production: Scientific paper **Format:** Journal
Corresponding author: No
- 4** Y. Hu; et al.. GRB 220501A: BOOTES-1 optical upper limit. GRB Coordinates Network. 31990, 05/2022.
Type of production: Scientific paper **Format:** Scientific and technical document or report
Corresponding author: No
- 5** Y. Hu; et al.. GRB 220506A: BOOTES-5/JGT optical upper limit. GRB Coordinates Network. 32008, 05/2022.
Type of production: Scientific paper
Corresponding author: No
- 6** Y. Hu. GRB 220511A: BOOTES-2/TELMA optical upper limit. GRB Coordinates Network. 32027, 05/2022.
Type of production: Scientific paper **Format:** Scientific and technical document or report
Corresponding author: No
- 7** Y. Hu; et al.. GRB 220521A: BOOTES-2/TELMA and CAHA 2.2m telescope optical upper limit. GRB Coordinates Network. 32107, 05/2022.
Type of production: Scientific paper **Format:** Scientific and technical document or report
Corresponding author: No
- 8** M. D. Caballero-Garcia; et al.. Prompt emission analysis of luminous GRB 210619B observed with $\text{\textbackslashtextbackslashtextbackslashhit Fermi}$ and ASIM: a transition between thermal to non-thermal outflow?. MNRAS (in press). arXiv:2205.07790, 05/2022.
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
- 9** Y. Hu; et al.. GRB 220403B: 1.5m OSN optical observation. GRB Coordinates Network. 31841, 04/2022.
Type of production: Scientific paper **Format:** Scientific and technical document or report
Corresponding author: No



- 10** Y. Hu; et al.. GRB 220408A: BOOTES-5/JGT optical afterglow detection. GRB Coordinates Network. 31859, 04/2022.
Type of production: Scientific paper **Format:** Scientific and technical document or report
Corresponding author: No
- 11** Y. Hu; et al.. GRB 220412A: BOOTES-network optical upper limits. GRB Coordinates Network. 31901, 04/2022.
Type of production: Scientific paper **Format:** Scientific and technical document or report
Corresponding author: No
- 12** Y. Hu; et al.. GRB 220412B: BOOTES-1 optical upper limit. GRB Coordinates Network. 04/2022.
Type of production: Scientific paper **Format:** Scientific and technical document or report
Corresponding author: No
- 13** R. Gupta; et al.. Probing into emission mechanisms of GRB 190530A using time-resolved spectra and polarization studies: synchrotron origin?. MNRAS. 511 - 1694, 04/2022.
Type of production: Scientific paper **Format:** Journal
Corresponding author: No
- 14** Y. Hu; et al.. GRB 220302A: BOOTES-5/JGT optical upper limit. GRB Coordinates Network. 31669, 03/2022.
Type of production: Scientific paper **Format:** Scientific and technical document or report
Corresponding author: No
- 15** Y. Hu; et al.. GRB 220210A: 1.5m OSN optical upper limit. GRB Coordinates Network. 31581, 02/2022.
Type of production: Scientific paper **Format:** Scientific and technical document or report
Corresponding author: No
- 16** I. Carrasco-Garcia; et al.. GRB 220210A: BOOTES-5/JGT optical afterglow candidate. GRB Coordinates Network. 31573, 02/2022.
Type of production: Scientific paper **Format:** Scientific and technical document or report
Corresponding author: No
- 17** Y. Hu; et al.. GRB 220218A: BOOTES-5/JGT optical upper limit. GRB Coordinates Network. 31613, 02/2022.
Type of production: Scientific paper **Format:** Scientific and technical document or report
Corresponding author: No
- 18** Y. Hu; et al.. ZTF22aabjpxh/AT2022cva: 1.5m OSN optical observation. GRB Coordinates Network. 31639, 02/2022.
Type of production: Scientific paper **Format:** Scientific and technical document or report
Corresponding author: No
- 19** Hou-Jun Lu; et al.. GRB 211227A as a Peculiar Long Gamma-Ray Burst from a Compact Star Merger. ApJ. 931 - 23, 01/2022.
Type of production: Scientific paper **Format:** Journal
Corresponding author: No
- 20** M. D. Caballero-Garcia; et al.. GRB 220101A: 2.2m CAHA (+CAFOS) first day optical detection. GRB Coordinates Network. 31388, 01/2022.
Type of production: Scientific paper **Format:** Scientific and technical document or report
Corresponding author: Yes



- 21** A. J. Castro-Tirado; et al.. GRB 220107A: 6m BTA spectroscopic redshift. GRB Coordinates Network. 31423, 01/2022.
Type of production: Scientific paper **Format:** Scientific and technical document or report
Corresponding author: No
- 22** A. Castro Tirado; et al.. Extreme oscillations in the main peak of a magnetar giant flare. Nature. 600 - 621, 23/12/2021.
Type of production: Scientific paper **Format:** Journal
Corresponding author: No
- 23** Y. Hu; et al.. GRB 211221A: BOOTES-4/MET optical upper limit. GRB Coordinates Network. 31279, 12/2021.
Type of production: Scientific paper **Format:** Scientific and technical document or report
Corresponding author: No
- 24** Y. Hu; et al.. GRB 211223C: BOOTES-4/MET optical upper limit. GRB Coordinates Network. 31295, 12/2021.
Type of production: Scientific paper **Format:** Scientific and technical document or report
Corresponding author: No
- 25** Y. Hu; et al.. GRB 211227A: BOOTES-2/TELMA optical upper limit. GRB Coordinates Network. 31318, 12/2021.
Type of production: Scientific paper **Format:** Scientific and technical document or report
Corresponding author: No
- 26** Y. Hu; et al.. GRB 210930A: CAHA 2.2m telescope optical limit. GRB Coordinates Network. 30909, 10/2021.
Type of production: Scientific paper **Format:** Scientific and technical document or report
Corresponding author: No
- 27** Y. Hu; et al.. GRB 211023A: 1.5m OSN optical observation. GRB Coordinates Network. 30990, 10/2021.
Type of production: Scientific paper **Format:** Scientific and technical document or report
Corresponding author: No
- 28** Y. Hu; et al.. GRB 211023B: BOOTES-4/MET and 1.5m OSN optical upper limit. GRB Coordinates Network. 30976, 10/2021.
Type of production: Scientific paper **Format:** Scientific and technical document or report
Corresponding author: No
- 29** I. Perez-Garcia; et al.. Observations with the BOOTES Network of the current outburst in the dwarf-nova SW UMa. The Astronomer's Telegram. 14960, 10/2021.
Type of production: Scientific paper **Format:** Scientific and technical document or report
Corresponding author: No
- 30** Y. Hu; et al.. GRB 210912A: BOOTES-5/JGT optical afterglow candidate. GRB Coordinates Network. 30823, 09/2021.
Type of production: Scientific paper **Format:** Scientific and technical document or report
Corresponding author: No
- 31** Y. Hu; et al.. GRB 210919A: BOOTES-2/TELMA optical upper limit. GRB Coordinates Network. 30848, 09/2021.
Type of production: Scientific paper
Corresponding author: No

- 32** A. F. Vleev; et al.. Optical Spectroscopy of Candidates in the LIGO/Virgo Binary Merger Error Boxes. Revista Mexicana de Astronomia y Astrofisica Conference Series. 53 - 83, 09/2021.
Type of production: Scientific paper **Format:** Journal
Corresponding author: No
- 33** Y. Hu. The BOOTES Network in the Gravitational Wave Era. Revista Mexicana de Astronomia y Astrofisica Conference Series. 53 - 75, 09/2021.
Type of production: Scientific paper **Format:** Journal
Corresponding author: No
- 34** R. Gupta; et al.. GRB 140102A: insight into prompt spectral evolution and early optical afterglow emission. MNRAS. 505 - 4086, 08/2021.
Type of production: Scientific paper **Format:** Journal
Corresponding author: No
- 35** Y. Hu; et al.. 10.4 m GTC observations of the nearby VHE-detected GRB 190829A/SN 2019oyw. A&A.646 - 50, 02/2021.
Type of production: Scientific paper **Format:** Journal
- 36** et al.; Shreya Anand. Optical follow-up of the neutron star-black hole mergers S200105ae and S200115j. Nature Astronomy. 5, pp. 46 - 53. 01/01/2021.
Type of production: Scientific paper **Format:** Journal
Corresponding author: No
- 37** E. S. Kammoun; et al.. UV/Optical Disk Thermal Reverberation in Active Galactic Nuclei: An In-depth Study with an Analytic Prescription for Time-lag Spectra. ApJ.907 - 20, 01/2021.
Type of production: Scientific paper **Format:** Journal
Corresponding author: No
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Corresponding author: No
- 124** J. A. Acosta-Pulido; et al.. The Spanish Square Kilometre Array White Book. Book of 289 pages, published in Sociedad Española de Astronomía. 06/2015.
Type of production: Scientific book or monograph **Format:** Book
Corresponding author: No
- 125** Mission Requirement Document v1.0. THESEUS Transient high energy sky and early universe surveyor Mission Requirements Document (MRD). ESA-TSS-EST-MIS-RS-001, 06/2019.
Type of production: Scientific-technical report **Format:** Scientific and technical document or report
Corresponding author: Yes
- 126** Maria D. Caballero Garcia; Iossif Papadakis; Marco Ajello; Fabrizio Nicastro. Hard X-ray spectral variability of the brightest Seyfert AGN with SWIFT/BAT. "The X-ray Universe 2011, Presentations of the Conference held in Berlin, Germany, 27-30 June 2011. 08/2011.
Type of production: Presentation **Format:** Book
- 127** Maria D. Caballero-Garcia; Jon M. Miller; V. Beckmann; S. Soldi. Decrease in flux of H 1743-322 and preliminary spectral fit results. ATel. 1798, 10/2008.
Type of production: Astronomer Telegram **Format:** Scientific and technical document or report
- 128** C. Ricci; Maria D. Caballero-Garcia; V. Beckmann; J. M. Miller; E. Kuulkers. H1743-322 in stable outburst phase. ATel. 1779, 10/2008.
Type of production: Astronomer Telegram **Format:** Scientific and technical document or report
- 129** C. Ricci; S. Soldi; V. Beckmann; J. M. Miller; Maria D. Caballero-Garcia; E. Kuulkers. IGR J17375-3022: a new hard X-ray transient detected by INTEGRAL. ATel. 1781, 10/2008.
Type of production: Astronomer Telegram **Format:** Scientific and technical document or report
- 130** Maria D. Caballero Garcia; Jon M. Miller; C. Ferrigno; V. Beckmann. Transition of H 1743-322 to the HIMS/SIMS confirmed and preliminary spectral fit results. ATel. 1813, 10/2008.
Type of production: Astronomer Telegram **Format:** Scientific and technical document or report
Corresponding author: Yes

- 131** V. Beckmann; S. Soldi; D. Eckert; C. Ferrigno; G. Belanger; E. Kuulkers; Maria D. Caballero-Garcia; et al.. XTE J1701-407 INTEGRAL and Swift observations. ATel. 1791, 10/2008.
Type of production: Astronomer Telegram **Format:** Scientific and technical document or report
- 132** M. D. Caballero-Garcia; J. M. Miller; E. Kuulkers; M. Diaz Trigo. Fifth set of INTEGRAL observations of GX339-4: preliminary spectral fit results. ATel. 1050, 04/2007.
Type of production: Astronomer Telegram **Format:** Scientific and technical document or report
Corresponding author: Yes
- 133** J. M. Miller; M. D. Caballero-Garcia; E. Kuulkers; M. Diaz Trigo. IGR J17394-4638 is actually 4U 1735-44. ATel. 1052, 04/2007.
Type of production: Astronomer Telegram **Format:** Scientific and technical document or report
Corresponding author: No
- 134** M. D. Caballero-Garcia; J. M. Miller; E. Kuulkers; M. Diaz Trigo. IGR J17394-4638: a new X-ray transient detected by INTEGRAL. ATel. 1048, 04/2007.
Type of production: Astronomer Telegram **Format:** Scientific and technical document or report
Corresponding author: Yes
- 135** J. M. Miller; E. Kuulkers; M. D. Caballero-Garcia; M. Diaz Trigo. Swift Observations of IGR J17394-4638. ATel. 1049, 04/2007.
Type of production: Astronomer Telegram **Format:** Scientific and technical document or report
Corresponding author: No
- 136** M. D. Caballero-Garcia; J. M. Miller; E. Kuulkers; M. Diaz Trigo. Fourth set of INTEGRAL observations of GX339-4: preliminary spectral fit results. ATel. 1032, 03/2007.
Type of production: Astronomer Telegram **Format:** Scientific and technical document or report
Corresponding author: Yes
- 137** M. D. Caballero-Garcia; J. M. Miller; E. Kuulkers; M. Diaz Trigo. Third set of INTEGRAL observations of GX 339-4: preliminary spectral fit results. ATel. 1029, 03/2007.
Type of production: Astronomer Telegram **Format:** Scientific and technical document or report
- 138** S. Soldi; J. M. Miller; E. Kuulkers; M. D. Caballero-Garcia; M. Diaz Trigo. INTEGRAL TOO observations of GX 339-4. ATel. 986, 02/2007.
Type of production: Astronomer Telegram **Format:** Scientific and technical document or report
Corresponding author: No
- 139** S. Soldi; S. Shaw; J. M. Miller; E. Kuulkers; M. D. Caballero-Garcia; M. Diaz Trigo. IGR J16558-4150: a new hard X-ray transient detected by INTEGRAL. ATel. 987, 02/2007.
Type of production: Astronomer Telegram **Format:** Scientific and technical document or report
Corresponding author: No
- 140** M. D. Caballero-Garcia; J. M. Miller; E. Kuulkers; M. Diaz Trigo. INTEGRAL observations of GX339-4: preliminary spectral fit results. ATel. 1000, 02/2007.
Type of production: Astronomer Telegram **Format:** Scientific and technical document or report
Corresponding author: Yes
- 141** M. D. Caballero-Garcia; J. M. Miller; E. Kuulkers; M. Diaz Trigo. Second set of INTEGRAL observations of GX339-4: preliminary spectral fit results. ATel. 1012, 02/2007.
Type of production: Astronomer Telegram **Format:** Scientific and technical document or report

- 142** J. M. Miller; E. Kuullkers; M. D. Caballero-Garcia; M. Diaz Trigo. INTEGRAL Campaign on GX 339-4. ATel. 980, 01/2007.
Type of production: Astronomer Telegram **Format:** Scientific and technical document or report
Corresponding author: No

Works submitted to national or international conferences

- 1** **Title of the work:** Multi-Messenger observations of the Fermi-LAT blazar 4FGL J0658.6+0636 consistent with an IceCube high-energy neutrino
Name of the conference: 37th International Cosmic Ray Conference. 12-23 July 2021. Berlin, Germany - Online, published March 18, 2022
Corresponding author: No
Date of event: 03/2022
R. de Menezes; et al. "Online at <https://pos.sissa.it/cgi-bin/reader/conf.cgi?confid=395, id.955>".
- 2** **Title of the work:** Experimental Astronomy
Name of the conference: The THESEUS space mission: science goals, requirements and mission concept
Date of event: 08/11/2021
L. Amati et al. (including MCG). "The THESEUS space mission: science goals, requirements and mission concept".
- 3** **Title of the work:** Experimental Astronomy
Name of the conference: Time domain astronomy with the THESEUS satellite
Date of event: 08/11/2021
S. Mereghetti; S. Balman; Caballero-Garcia M.; et al. "Time domain astronomy with the THESEUS satellite".
- 4** **Title of the work:** Revealing nature of GRB 210205A, ZTF21aaeyldq (AT2021any), and follow-up observations with the 4K \times 4K CCD Imager+3.6m DOT
Name of the conference: Accepted for Special Issue of Journal of Astrophysics and Astronomy, 2022, Astrophysical jets and observational facilities: National perspective, 05 -09 April 2021, ARIES Nainital
Corresponding author: No
Date of event: 04/2021
R. Gupta; et al.
- 5** **Title of the work:** THESEUS ASSESSMENT STUDY REPORT (YELLOW BOOK)
Name of the conference: THESEUS Transient High-Energy Sky and Early Universe Surveyor
Date of event: 18/02/2021
Organising entity: European Space Agency
SST (including MCG). "THESEUS Transient High-Energy Sky and Early Universe Surveyor".
- 6** **Title of the work:** Time domain astrophysics of X and gamma-ray sources with Theseus
Name of the conference: 43rd COSPAR Scientific Assembly
Date of event: 01/2021
S. Mereghetti; et al. "2021cosp...43E1274M".
- 7** **Title of the work:** X-ray transients with THESEUS
Name of the conference: THESEUS conference 2020
City of event: Malaga, Spain
Date of event: 12/05/2020
End date: 15/05/2020

Organising entity: Consejo Superior de Investigaciones Científicas

Type of entity: State agency

- 8** **Title of the work:** X-ray reverberation in AGN: clues onto the extended corona
Name of the conference: 12TH INTERNATIONAL WORKSHOP ON ASTRONOMICAL X-RAY OPTICS
City of event: Prague, Czech Republic
Date of event: 02/12/2019
End date: 06/12/2019
- 9** **Title of the work:** X-ray reverberation in AGN: towards an extended corona
Name of the conference: FROM THE DOLOMITES TO THE EVENT HORIZON: SLEDGING DOWN THE BLACK HOLE POTENTIAL WELL
City of event: Sexten, Italy
Date of event: 01/07/2019
End date: 05/07/2019
- 10** **Title of the work:** THESEUS: synergies with next generation of large observatories
Name of the conference: EWASS19
City of event: Lyon, France
Date of event: 24/06/2019
End date: 25/06/2019
Organising entity: European Week of Astronomy and Space Science
- 11** **Title of the work:** X-ray Reverberation Observational Modelling in Active Galactic Nuclei
Name of the conference: Accretion Processes in Cosmic Sources II
City of event: Saint Petersburg, Russia
Date of event: 03/09/2018
End date: 08/09/2018
M. D. Caballero-Garcia; et al."Invited talk".
- 12** **Title of the work:** On the search of the elusive Intermediate Mass Black Holes
Name of the conference: Fifth Workshop on Robotic Autonomous Observatories (ASTROROB) (<http://astrorob.iaa.es>)
Corresponding author: Yes
City of event: Mazagon (Huelva), Spain
Date of event: 16/10/2017
End date: 20/10/2017
Maria Caballero-Garcia; Michal Dovciak; Vladimir Karas; Sergei Fabrika; Alberto Castro-Tirado; Michal Bursa. "On the search of the elusive Intermediate Mass Black Holes".
- 13** **Title of the work:** Results from the use of the X-ray reverberation model KYNREFREV in XSPEC (II)
Name of the conference: From the Dolomites to the event horizon: sledging down the black hole potential well (<http://www.sexten-cfa.eu/en/conferences/2017/details/83-from-the-dolomites-to-the-event-horizonsledging-down-the-black-hole-potential-well.html>)
Corresponding author: Yes
City of event: Sexten, Italy
Date of event: 10/07/2017
End date: 14/07/2017
Maria Caballero-Garcia; Michal Dovciak; Iossif Papadakis; Anastasios Epitropakis; Vladimir Karas. "Results from the use of the X-ray reverberation model KYNREFREV in XSPEC".

- 14 Title of the work:** Results from the use of the relativistic and slim disc model SLIMULX in XSPEC
Name of the conference: Accreting Black holes at their extremes (S12 symposium at EWASS 2017). (<http://eas.unige.ch/EWASS2017/session.jsp?id=S12>)
Corresponding author: Yes
City of event: Prague, Czech Republic
Date of event: 29/06/2017
End date: 30/06/2017
Maria Caballero-Garcia; Michal Bursa; Michal Dovciak; Sergei Fabrika; Alberto Castro-Tirado; Vladimir Karas. "First results from the use of the relativistic and slim disc model SLIMULX in XSPEC".
- 15 Title of the work:** Results from the use of the X-ray reverberation model KYNREFREV in XSPEC
Name of the conference: The X-ray Universe 2017 (<https://www.cosmos.esa.int/web/xmm-newton/2017-symposium>)
Corresponding author: Yes
City of event: Rome, Italy
Date of event: 06/06/2017
End date: 09/06/2017
Maria Caballero-Garcia; Michal Dovciak; Iossif Papadakis; Anastasios Epitropakis; Jiri Svoboda; Erin Kara; Vladimir Karas. "KYNREFREV - implementation of an X-ray reverberation model in XSPEC".
- 16 Title of the work:** First results from the use of the relativistic and slim disc model SLIMULX in XSPEC
Name of the conference: 14th INTEGRAL/BART Workshop, IBWS (<http://www.ibws.cz>)
Corresponding author: Yes
City of event: Karlovy Vary, Czech Republic
Date of event: 03/04/2017
End date: 07/04/2017
Maria Caballero-Garcia; Michal Bursa; Michal Dovciak; Sergei Fabrika; Alberto Castro-Tirado; Vladimir Karas. "First results from the use of the relativistic and slim disc model SLIMULX in XSPEC".
- 17 Title of the work:** First results from the use of the X-ray reverberation model in XSPEC
Name of the conference: 9TH INTERNATIONAL WORKSHOP ON ASTRONOMICAL X-RAY OPTICS
City of event: Prague, Czech Republic
Date of event: 05/12/2016
End date: 08/12/2016
M. D. Caballero Garcia. "Talk".
- 18 Title of the work:** The very first results from the use of the X-ray reverberation model in XSPEC
Name of the conference: Relativistic Astrophysics Group of the Institute of Physics of the Silesian University in Opava "RAGtime18"
City of event: Opava, Czech Republic
Date of event: 17/10/2016
End date: 19/10/2016
M. D. Caballero Garcia. "Talk".
- 19 Title of the work:** Implementation of an X-ray reverberation model in XSPEC
Name of the conference: Workshop 2016 "Accretion Processes in Cosmic Sources"
City of event: Saint Petersburg (Invited talk and Chair), Russia
Date of event: 05/09/2016
End date: 10/09/2016
M. D. Caballero Garcia. "Invited talk and chair".



- 20** **Title of the work:** Implementing an X-ray reverberation model in XSPEC
Name of the conference: EWASS 2016. X-rays from AGN: looking into the central engine
City of event: Athens, Greece
Date of event: 07/07/2016
End date: 08/07/2016
M. D. Caballero Garcia. "Talk."
- 21** **Title of the work:** Implementing an X-ray reverberation model in XSPEC
Name of the conference: 13th INTEGRAL/BART Workshop, IBWS
City of event: Karlovy Vary, Czech Republic
Date of event: 18/04/2016
End date: 21/04/2016
M. D. Caballero Garcia. "Talk and Chair."
- 22** **Title of the work:** KYNREFREV - implementation of an X-ray reverberation model in XSPEC
Name of the conference: Strong gravity consortium meeting
City of event: Warsaw, Poland
Date of event: 13/04/2016
End date: 15/04/2016
Organising entity: CAMCK
M. D. Caballero Garcia. "Talk."
- 23** **Title of the work:** Implementing an X-ray reverberation model in XSPEC
Name of the conference: The X-ray Spectral-Timing Revolution
City of event: Leiden, Holland
Date of event: 01/02/2016
End date: 05/02/2016
Organising entity: The Lorentz Center
M. D. Caballero Garcia. "Invited talk."
- 24** **Title of the work:** Astrophysics of exotic stars: neutron stars in Be X-ray binaries
Name of the conference: 8TH INTERNATIONAL WORKSHOP ON ASTRONOMICAL X-RAY OPTICS.
(<http://axro.cz>)
City of event: Prague, Czech Republic
Date of event: 07/12/2015
End date: 10/12/2015
"Talk."
- 25** **Title of the work:** Astrophysics of exotic stars: from solar-like to neutron stars
Name of the conference: Ústav teoretické fyziky a astrofyziky, Masarykova univerzita
City of event: Brno, Czech Republic
Date of event: 12/10/2015
"Seminar."
- 26** **Title of the work:** Astrophysics of exotic stars (I): "extreme" solar-like stars
Name of the conference: Fourth Workshop on Robotic Autonomous Observatories (ASTROROB15;
<http://astrorob.iaa.es>)
City of event: Torremolinos, Spain
Date of event: 28/09/2015
End date: 02/10/2015
"Talk."

- 27** **Title of the work:** X-ray timing and spectral studies from Ultra-Luminous X-ray sources
Name of the conference: The Extremes of Black Hole Accretion
City of event: Madrid, Spain
Date of event: 08/06/2015
End date: 10/06/2015
Organising entity: AGENCE SPATIALE EUROPEENE ESA - ESAC
"Poster."
- 28** **Title of the work:** The Be/X-ray binary system V0332+53: A Short Review
Name of the conference: FRASCATI Workshop 15: multi-frequency behaviour of high-energy cosmic sources -XI (<http://workshop2015.iaps.inaf.it/>)
City of event: Palermo (Invited Talk), Italy
Date of event: 25/05/2015
End date: 30/05/2015
"Invited talk."
- 29** **Title of the work:** Initial follow-up of optical transients using BOOTES (part II)
Name of the conference: 12th INTEGRAL/BART Workshop, IBWS (<http://www.ibws.cz>)
City of event: Karlovy Vary, Czech Republic
Date of event: 20/04/2015
End date: 24/04/2015
"Talk."
- 30** **Title of the work:** The X-ray spectral and timing behaviour of the accreting pulsar V0332+53
Name of the conference: 7TH INTERNATIONAL WORKSHOP ON ASTRONOMICAL X-RAY OPTICS. (<http://axro.cz>)
City of event: Prague, Czech Republic
Date of event: 08/12/2014
End date: 11/12/2014
"Talk."
- 31** **Title of the work:** Early optical follow-up of DG CVn during its 2014 super-flare
Name of the conference: Swift: 10 years of discovery.
City of event: Rome, Italy
Date of event: 02/12/2014
End date: 05/12/2014
Organising entity: Rome, Italy, at the Sapienza University, Faculty of Arts and Humanities.(Rome, Italy). (<http://www.brera.inaf.it/Swift10/>).
"Poster."
- 32** **Title of the work:** X-ray timing and spectral studies from middle-weight black holes
Name of the conference: Relativistic Astrophysics Group, Astronomical Institute of the Academy of Sciences (Prague, Czech Republic).
City of event: Prague, Czech Republic
Date of event: 26/05/2014
"Colloquium."
- 33** **Title of the work:** Initial follow-up of optical transients with COLORES using the BOOTES network
Name of the conference: 11th INTEGRAL/BART Workshop, IBWS
Type of participation: Participatory - oral communication



City of event: Karlovy Vary, Czech Republic

Date of event: 22/04/2014

End date: 25/04/2014

M. D. Caballero-Garcia; M. Jelinek; A. Castro-Tirado; R. Hudec; R. Cunniffe; O. Rabaza; L. Sabau-Graziati.
"Initial follow-up of optical transients with COLORES using the BOOTES network."

34 Title of the work: X-ray timing and spectral studies from Ultra-luminous X-ray sources (II)

Name of the conference: Spanish X-ray Astronomy 2013

Type of participation: Participatory - oral communication

City of event: Barcelona, Catalonia, Spain

Date of event: 17/06/2013

End date: 19/06/2013

Organising entity: ICE-CSIC

35 Title of the work: X-ray timing and spectral studies from Ultra-Luminous X-ray sources (I)

Name of the conference: Spectral/timing properties of accreting objects: from X-ray binaries to AGN

Type of participation: Participatory - poster

City of event: Madrid, Community of Madrid, Spain

Date of event: 03/06/2013

End date: 05/06/2013

Organising entity: AGENCE SPATIALE EUROPEENE ESA - ESAC

M. D. Caballero-Garcia.

36 Title of the work: Black Holes in Ultra-Luminous X-ray sources: X-ray Timing versus Spectroscopy II

Name of the conference: IEEC Weekly Colloquium (<http://www.ice.csic.es/weekly.php>)

Type of participation: Participatory - invited/keynote talk

City of event: Barcelona, Spain

Date of event: 13/11/2012

M. D. Caballero-Garcia.

37 Title of the work: Black Holes in Ultra-Luminous X-ray sources: X-ray Timing versus Spectroscopy I

Name of the conference: IAU Symposium 290, FEEDING COMPACT OBJECTS: Accretion on All Scales

Type of participation: Participatory - oral communication

City of event: Beijing, China

Date of event: 20/08/2012

End date: 24/08/2012

Organising entity: International Astronomical Union (<http://iaus290.bao.ac.cn/index.html>)

38 Title of the work: Black holes in Binary Systems, Ultra-Luminous X-ray Sources and Active Galactic Nuclei: the spectraltiming approach

Name of the conference: Astronomy Group at University of Southampton

Type of participation: Participatory - invited/keynote talk

City of event: Southampton, United Kingdom

Date of event: 11/04/2012

M. D. Caballero-Garcia. "<http://www.astro.soton.ac.uk/~seminars/11-04-12.html>".

39 Title of the work: NGC55 ULX: evidence for a super-accreting black hole?

Name of the conference: VII CONGRESSO NAZIONALE "ASTROFISICA DEGLI OGGETTI COMPATTI" (CNOC VII).

Type of participation: Participatory - oral communication

City of event: Bormio, Italy



Date of event: 13/12/2011

End date: 16/12/2011

Organising entity: INAF (http://www.brera.inaf.it/utenti/campana/cnoc7/cnoc7/cnoc7_program_short.pdf)
M. D. Caballero-Garcia.

40 Title of the work: Black holes in Binary Systems, Ultra-Luminous X-ray Sources and Active Galactic Nuclei: are they so different? II

Name of the conference: Osservatorio di Brera, sede at Brera (Milan, Italy).

Type of participation: Participatory - invited/keynote talk

Date of event: 30/11/2011

M. D. Caballero-Garcia.

"<http://www.brera.inaf.it/interroga/dbServer?cmd=abstractSeminario&oid=30043161>".

41 Title of the work: Black holes in Binary Systems, Ultra-Luminous X-ray Sources and Active Galactic Nuclei: are they so different?

Name of the conference: Visitor of the Osservatorio di Brera, sede at Merate (Milan, Italy).

Type of participation: Participatory - invited/keynote talk

Date of event: 03/07/2011

End date: 09/07/2011

"<http://www.mi.astro.it/interroga/dbServer?cmd=abstractSeminario&oid=29082183&closebutton=true>".

42 Title of the work: Hard X-ray spectral variability of the brightest Seyfert AGNs with SWIFT/BAT

Name of the conference: The X-ray Universe 2011. A conference organised by the XMM-Newton Science Operations Centre

Type of participation: Participatory - oral communication

City of event: Berlin, Germany

Date of event: 27/06/2011

End date: 30/06/2011

M. D. Caballero-Garcia; I. E. Papadakis; M. Ajello; F. Nicastro.

"http://xmm.esac.esa.int/external/xmm_science/workshops/2011symposium/#topicG".

43 Title of the work: Hard X-ray spectral variability of the brightest Seyfert AGNs with SWIFT/BAT

Name of the conference: IAA at Athens (Greece). http://www.astro.noa.gr/Research/iaa_seminars_gr.htm

Type of participation: Participatory - invited/keynote talk

Date of event: 11/05/2011

44 Title of the work: Accretion onto black holes: is the relativistic Fe K alpha line ubiquitous?

Name of the conference: Department of Astronomia i Meteorologia, Universitat de Barcelona. Talk in the seminars of the Department, Barcelona (Spain). <http://www.am.ub.es/activitats.html>

Type of participation: Participatory - invited/keynote talk

Date of event: 28/02/2011

M. D. Caballero-Garcia.

45 Title of the work: Accretion onto black holes: is the relativistic Fe K alpha line ubiquitous?

Name of the conference: Department of Physics, University of Crete.

Type of participation: Participatory - invited/keynote talk

Date of event: 08/12/2010

M. D. Caballero-Garcia.



- 46** **Title of the work:** Relativistic X-ray disc reflection in Ultra-Luminous X-ray sources
Name of the conference: High Energy View of Accreting Objects: AGN and X-ray Binaries
Type of participation: 'Participatory - poster
City of event: Agios Nikolaos, Greece
Date of event: 05/10/2010
End date: 14/10/2010
M. D. Caballero-Garcia; R. C. Reis; A. C. Fabian.
- 47** **Title of the work:** Relativistic X-ray disc reflection in Ultra-Luminous X-ray sources
Name of the conference: Ultra-Luminous X-ray sources and Middle Weight Black Holes
Type of participation: 'Participatory - poster
City of event: Madrid, Spain
Date of event: 24/05/2010
End date: 26/05/2010
M. D. Caballero-Garcia; A. C. Fabian; R. C. Reis; J. M. Miller.
"(http://xmm.esac.esa.int/external/xmm_science/workshops/2010_science/).".
- 48** **Title of the work:** Insights on accretion to black holes by INTEGRAL and XMM-Newton
Type of participation: Participatory - invited/keynote talk
City of event: Paris, France
Date of event: 16/03/2010
Organising entity: APC – Astroparticule et Cosmologie
M. D. Caballero-Garcia.
- 49** **Title of the work:** X-ray reflection in a sample of X-ray bright Ultraluminous X-ray sources
Name of the conference: New results in X-ray Astronomy
Type of participation: Participatory - oral communication
Date of event: 16/09/2009
End date: 16/09/2009
M. D. Caballero-Garcia; A. C. Fabian.
- 50** **Title of the work:** The high-energy emission from GX 339-4 as seen with INTEGRAL and XMM-Newton
Name of the conference: An INTEGRAL view of compact objects (7th INTEGRAL Workshop)
Type of participation: Participatory - oral communication
City of event: Copenhagen, Denmark
Date of event: 08/09/2008
End date: 11/09/2008
M. D. Caballero-Garcia; J. M. Miller. "PoS for publication in the 7th INTEGRAL workshop - An INTEGRAL View of Compact Objects Proceedings".
- 51** **Title of the work:** The high-energy emission from black holes
Name of the conference: Putting Gravity to Work
Type of participation: 'Participatory - poster
City of event: Cambridge, United Kingdom
Date of event: 21/07/2008
End date: 25/07/2008
M. D. Caballero-Garcia.
- 52** **Title of the work:** High Energy Sources Monitored with OMC
Name of the conference: VIII reunion cientifica de la SEA
Type of participation: 'Participatory - poster



City of event: Santander, Spain

Date of event: 07/07/2008

End date: 11/07/2008

D. Risquez; A. Domingo; M. D. Caballero-Garcia; J. Alfonso-Garzon; j. M. Mas-Hesse. "Highlights of Spanish Astrophysics V " Proceedings of the VIII Scientific Meeting of the Spanish Astronomical Society (SEA) held in Santander, July 7-11, 2008. Springer".

53 Title of the work: High energy emission from microquasars (with black hole)

Name of the conference: VIII reunion cientifica de la SEA

Type of participation: Participatory - oral communication

City of event: Santander, Spain

Date of event: 07/07/2008

End date: 11/07/2008

M. D. Caballero-Garcia. "Highlights of Spanish Astrophysics V " Proceedings of the VIII Scientific Meeting of the Spanish Astronomical Society (SEA) held in Santander, July 7-11, 2008. Springer".

54 Title of the work: The INTEGRAL-OMC Scientific Archive

Name of the conference: VIII reunion cientifica de la SEA

Type of participation: Participatory - poster

City of event: Santander, Spain

Date of event: 07/07/2008

End date: 11/07/2008

A. Domingo; R. Gutierrez-Sanchez; D. Risquez; M. D. Caballero-Garcia; J. M. Mas-Hesse; E. Solano. "Highlights of Spanish Astrophysics V " Proceedings of the VIII Scientific Meeting of the Spanish Astronomical Society (SEA) held in Santander, July 7-11, 2008. Springer".

55 Title of the work: The high energy emission from black holes

Name of the conference: X-rays from Nearby Galaxies

City of event: Madrid, Spain

Date of event: 05/09/2007

End date: 07/09/2007

M. D. Caballero-Garcia; J. M. Miller; E. Kuulkers. "MPE report".

56 Title of the work: A deep view into the black holes high energy emission

Name of the conference: XMM-Newton: The Next Decade

Type of participation: Participatory - poster

City of event: Madrid, Spain

Date of event: 04/06/2007

End date: 06/06/2007

M. D. Caballero-Garcia; J. M. Miller; E. Kuulkers; M. Diaz Trigo.

57 Title of the work: XMM-Newton and INTEGRAL spectroscopy of the microquasar GRO J1655-40 during its 2005 outburst

Type of participation: Participatory - poster

Date of event: 2007

M. Diaz Trigo; A. N. Parmar; J. M. Miller; E. Kuulkers; M. D. Caballero-Garcia. "American Institute of Physics Conference Series, 924, 877".

58 Title of the work: ToO observations of GRO J1655-40 during outburst

Name of the conference: The 6th INTEGRAL Workshop: the obscured Universe

Type of participation: Participatory - poster



City of event: Moscow, Russia

Date of event: 02/07/2006

End date: 08/07/2006

M. D. Caballero-Garcia; E. Kuulkers; P. Kretschmar; A. Domingo; J. M. Miller; J. M. Mas-Hesse.

59 Title of the work: INTEGRAL/OMC: optical counterparts of ROSAT sources

Name of the conference: The X-ray Universe 2005

Type of participation: 'Participatory - poster

City of event: El Escorial, Spain

Date of event: 26/09/2005

End date: 30/09/2005

M. D. Caballero-Garcia; A. Domingo; D. Risquez; J. M. Mas-Hesse. "Proceedings of The X-ray Universe 2005. ESA SP-604".

60 Title of the work: OMC-INTEGRAL: optical observations of X-ray binaries

Name of the conference: Joint European and National Astronomical Meeting (JENAM)

Type of participation: Participatory - oral communication

City of event: Granda, Spain

Date of event: 13/09/2004

End date: 17/09/2004

M. D. Caballero-Garcia; A. Domingo; D. Risquez; J. M. Mas-Hesse; A. Gimenez; F. Figueras; C. Jordi. "The many scales in the universe. JENAM 2004 Astrophysics Reviews. Ed.: Springer".

61 Title of the work: OMC: The Optical Monitoring Camera onboard INTEGRAL

Name of the conference: Joint European and National Astronomical Meeting (JENAM).

Type of participation: 'Participatory - poster

City of event: Granada., Spain

Date of event: 13/09/2004

End date: 17/09/2004

J. M. Mas-Hesse; A. Gimenez; J. L. Culhane; C. Jamar; B. McBreen; J. Torra; R. Hudec; F. Fabregat; E. Meurs; J. P. Swings; A. Domingo; E. Diaz; E. de Miguel; P. Cabo; et al.; M. D. Caballero. "The many scales in the universe. JENAM 2004 Astrophysics Reviews. Ed.: Springer".

62 Title of the work: Optically variable sources monitored by the OMC

Name of the conference: Joint European and National Astronomical Meeting (JENAM)

Type of participation: 'Participatory - poster

City of event: Granada, Spain

Date of event: 13/09/2004

End date: 17/09/2004

A. Domingo; D. Risquez; M. D. Caballero; J. M. Mas-Hesse; A. Gimenez; R. Gutierrez; E. Solano; L. Sarro. "The many scales in the universe. JENAM 2004 Astrophysics Reviews. Ed.: Springer".

63 Title of the work: OMC-INTEGRAL: optical observations of X-ray sources

Name of the conference: The 5th INTEGRAL Workshop: The Integral Universe

City of event: Munich, Germany

Date of event: 16/02/2004

End date: 20/02/2004

M. D. Caballero; A. Domingo; D. Risquez; J. M. Mas-Hesse; A. Gimenez; F. Figueras; C. Jordi. "Proceedings of The 5th INTEGRAL Workshop: The Integral Universe. ESA SP-552".

- 64** **Title of the work:** OMC: An optical monitoring camera for INTEGRAL
Name of the conference: The 5th INTEGRAL Workshop: The Integral Universe
Type of participation: 'Participatory - poster
City of event: Munich, Germany
Date of event: 16/02/2004
End date: 20/02/2004
J. M. Mas-Hesse; A. Gimenez; J. L. Culhane; C. Jamar; B. McBreen; J. Torra; R. Hudec; J. Fabregat; J. P. Swings; A. Domingo; M. D. Caballero; E. Meurs; D. Risquez. "Proceedings of The 5th INTEGRAL Workshop: The Integral Universe. ESA SP-552".
- 65** **Title of the work:** Optically variable sources monitored by the OMC
Name of the conference: The 5th INTEGRAL Workshop: The Integral Universe
Type of participation: 'Participatory - poster
City of event: Munich, Germany
Date of event: 16/02/2004
End date: 20/02/2004
A. Domingo; D. Risquez; M. D. Caballero; J. M. Mas-Hesse; A. Gimenez; R. Gutierrez; E. Solano; L. Sarro. "Proceedings of The 5th INTEGRAL Workshop: The Integral Universe. ESA SP-552".
- 66** **Title of the work:** The Input Catalogue for the OMC camera on-board INTEGRAL
Name of the conference: Quinta reunión científica de la Sociedad Española de Astronomía (SEA).
Type of participation: 'Participatory - poster
City of event: Toledo, Spain
Date of event: 09/09/2003
End date: 13/09/2003
A. Domingo; F. Figueras; J. M. Mas-Hesse; J. Torra; C. Jordi; M. D. Caballero.

R&D management and participation in scientific committees

Scientific, technical and/or assessment committees

- 1** **Committee title:** Chair of its Science Working Group (SWG) "Time-domain Astronomy" for the THESEUS mission.
Primary (UNESCO code): 210000 - Astronomy & Astrophysics
Secondary (UNESCO code): 250000 - Earth and space sciences
Affiliation entity: Instituto de Astrofísica de Andalucía **Type of entity:** State agency
City affiliation entity: Granada,
Start-End date: 01/01/2020 - 30/06/2021
- 2** **Committee title:** Server to the ESA Science Study Team for THESEUS M5 call ESA mission
Primary (UNESCO code): 229000 - Physical High-Energy
Tertiary (UNESCO code): 219900 - Other astronomical specialities
Affiliation entity: Instituto de Astrofísica de Andalucía **Type of entity:** State agency
City affiliation entity: Granada, Spain
Start-End date: 01/09/2018 - 01/06/2021

- 3** **Committee title:** SOC for the conference "Gamma-RayBursts: Observations and theory of the prompt and afterglow emission processes and their progenitors"
City affiliation entity: Turkey
Start-End date: 30/07/2016 - 07/08/2016

Organization of R&D activities

- 1** **Title of the activity:** SOC of the "THESEUS CONFERENCE 2020" meeting
Convening entity: Consejo Superior de Investigaciones Científicas
Type of entity: State agency
Start-End date: 12/05/2020 - 15/05/2020
- 2** **Title of the activity:** VI Workshop on Robotic Autonomous Observatories
Geographical area: European Union
Convening entity: Consejo Superior de Investigaciones Científicas
Type of entity: State agency
City convening entity: Torremolinos, Malaga, Andalusia, Spain
Start-End date: 30/09/2019 - 04/10/2019
- 3** **Title of the activity:** V Workshop on Robotic Autonomous Observatories
Type of activity: Workshop Geographical area: Non EU International
Convening entity: Consejo Superior de Investigaciones Científicas
Type of entity: State agency
City convening entity: Huelva, Andalusia, Spain
Start-End date: 16/10/2017 - 20/01/2017
Duration: 5 days

Other achievements

Stays in public or private R&D centres

- 1** **Entity:** Department of Physics at U. of Crete
Faculty, institute or centre: Department of physics.
City of entity: Heraklion, Kriti, Greece
Start-End date: 01/07/2018 - 31/07/2018
Duration: 1 month
Goals of the stay: Guest
Provable tasks: Collaboration visit.
- 2** **Entity:** Department of Astronomy at University of Southampton
City of entity: Southampton, United Kingdom
Start-End date: 04/2012 - 04/2012
Duration: 5 days
Goals of the stay: Guest
Provable tasks: Colaboration
- 3** **Entity:** Department of Physics at University of Michigan
City of entity: Ann Arbor, United States of America
Start-End date: 12/2007 - 12/2007
Duration: 15 days
Goals of the stay: Guest

Provable tasks: Colaborador