



**Martin A. Guerrero Roncel**

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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.

Basic research in Astronomy and Astrophysics on the following topics:

- a) Formation and evolution of planetary nebulae.
- b) Interaction of evolved star stellar winds with circumstellar medium.
- c) Multi-wavelength study of interstellar bubbles.

I got my PhD in 1995 on the spatially-resolved study of the chemical abundances of planetary nebulae (Univ. La Laguna, Instituto de Astrofísica de Canarias IAC, Tenerife, Spain). Then I was hired by the IAC as a member of the Support Astronomer group at Observatorio de El Roque de los Muchachos (ORM, La Palma, Spain). In 1999 I moved to the University of Illinois at Urbana-Champaign (USA) where I stayed until 2003, when I moved to the Instituto de Astrofísica de Andalucía (IAA) of the Spanish Consejo Superior de Investigaciones Científicas (CSIC) with a Ramón y Cajal tenure-track position. This tenure-track position moved into a permanent position (Científico Titular) in July 2006, being promoted into the next level (Investigador Científico) in March 2010. I has been the Science Vice-director of the IAA from June 2013 until August 2016 .

My research focus on the multi-wavelength study of cosmic bubbles (planetary nebulae, Wolf-Rayet bubbles, HII regions) using infrared, optical, UV and X-ray observations. This research is made in a collaborative effort with international teams at USA, Australia, Hong Kong, Mexico, Germany and Taiwan. My expertise is frequently requested for the assessment of proposal at time allocation committees of first-class facilities such as HST, GTC 10m, ESO VLT, Chandra and XMM-Newton.



## 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.

H index = 33

Citations total number = 3800

Refereed papers in journals of the JCR = 140

**Martin A. Guerrero Roncel**

Surname(s): **Guerrero Roncel**  
 Name: **Martin A.**  
 DNI: **28588275B**  
 Date of birth: **11/01/1968**  
 Gender: **Male**  
 Land line phone: **(+34) 958230622**  
 Fax: **(+34) 958814530**  
 Email: **mar@iaa.es**

**Current professional situation****Employing entity:** Instituto de Astrofísica de Andalucía**Professional category:** Investigador Científico**Start date:** 27/03/2010**Type of contract:** Civil servant**Dedication regime:** Full time**Previous positions and activities**

	<b>Employing entity</b>	<b>Professional category</b>	<b>Start date</b>
<b>1</b>	Instituto de Astrofísica de Andalucía	Científico Titular	07/2006
<b>2</b>	Instituto de Astrofísica de Andalucía	Ramón y Cajal Fellowship	06/2003
<b>3</b>	Department of Astronomy, University of Illinois at Urbana-Champaign (USA)	Research Assistant	01/2002
<b>4</b>	Department of Astronomy, University of Illinois at Urbana-Champaign (USA)	Postdoctoral Research Assistant	01/2001
<b>5</b>	Department of Astronomy, University of Illinois at Urbana-Champaign (USA)	Post-doctoral fellowship (Ministerio de Educación y Ciencia)	01/1999
<b>6</b>	Instituto de Astrofísica de Canarias	Associated Scientist	10/1998
<b>7</b>	Instituto de Astrofísica de Canarias	Head of the ORM Support Astronomers Group	10/1997
<b>8</b>	Instituto de Astrofísica de Canarias	Support Astronomer at the ORM	10/1995
<b>9</b>	Instituto de Astrofísica de Canarias	Scientific Collaborator	10/1994
<b>10</b>	Instituto de Astrofísica de Canarias	Resident Astronomer	10/1991

**1** **Employing entity:** Instituto de Astrofísica de Andalucía **Type of entity:** State agency  
**Professional category:** Científico Titular  
**Start-End date:** 07/2006 - 03/2010 **Duration:** 3 years - 9 months

**2** **Employing entity:** Instituto de Astrofísica de Andalucía **Type of entity:** State agency  
**Professional category:** Ramón y Cajal Fellowship



- Start-End date:** 06/2003 - 07/2006 **Duration:** 3 years - 1 month
- 3** **Employing entity:** Department of Astronomy, University of Illinois at Urbana-Champaign (USA) **Type of entity:** University  
**Professional category:** Research Assistant  
**Start-End date:** 01/2002 - 05/2003 **Duration:** 1 year - 5 months
- 4** **Employing entity:** Department of Astronomy, University of Illinois at Urbana-Champaign (USA) **Type of entity:** University  
**Professional category:** Postdoctoral Research Assistant  
**Start-End date:** 01/2001 - 12/2001 **Duration:** 1 year
- 5** **Employing entity:** Department of Astronomy, University of Illinois at Urbana-Champaign (USA) **Type of entity:** University  
**Professional category:** Post-doctoral fellowship (Ministerio de Educación y Ciencia)  
**Start-End date:** 01/1999 - 12/2000 **Duration:** 2 years
- 6** **Employing entity:** Instituto de Astrofísica de Canarias **Type of entity:** Public Research Body  
**Professional category:** Associated Scientist  
**Start-End date:** 10/1998 - 12/1998 **Duration:** 2 months
- 7** **Employing entity:** Instituto de Astrofísica de Canarias **Type of entity:** Public Research Body  
**Professional category:** Head of the ORM Support Astronomers Group  
**Start-End date:** 10/1997 - 09/1998 **Duration:** 1 year
- 8** **Employing entity:** Instituto de Astrofísica de Canarias **Type of entity:** Public Research Body  
**Professional category:** Support Astronomer at the ORM  
**Start-End date:** 10/1995 - 09/1997 **Duration:** 2 years
- 9** **Employing entity:** Instituto de Astrofísica de Canarias **Type of entity:** Public Research Body  
**Professional category:** Scientific Collaborator  
**Start-End date:** 10/1994 - 09/1995 **Duration:** 1 year
- 10** **Employing entity:** Instituto de Astrofísica de Canarias **Type of entity:** Public Research Body  
**Professional category:** Resident Astronomer  
**Start-End date:** 10/1991 - 09/1994 **Duration:** 3 years



## Education

### University education

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

**University degree:** Higher degree

**Name of qualification:** Physics

**Degree awarding entity:** Universidad Complutense de Madrid **Type of entity:** University

**Date of qualification:** 06/1991

#### Doctorates

**Doctorate programme:** Astrophysics

**Degree awarding entity:** Universidad de La Laguna, Instituto de Astrofísica de Canarias **Type of entity:** University

**Date of degree:** 11/1995

### Language skills

Language	Listening skills	Reading skills	Spoken interaction	Speaking skills	Writing skills
French		C1	B1	B1	B1
Spanish		C1	C1	C1	C1
English		C1	C1	C1	C1

## Teaching experience

### General teaching experience

- Name of the course:** Técnicas Observacionales en Astrofísica  
**University degree:** Programa Máster FISyMAT  
**Start date:** 01/04/2018 **End date:** 15/06/2018  
**End date:** 06/2018  
**Entity:** Universidad de Granada **Type of entity:** University  
**Faculty, institute or centre:** Facultad de Ciencias
- Name of the course:** High Energy Astrophysics  
**University degree:** Fisymat PhD Program  
**Start date:** 19/04/2017 **End date:** 27/04/2017  
**End date:** 04/2017  
**Entity:** Universidad de Granada **Type of entity:** University



**Faculty, institute or centre:** Facultad de Ciencias

**3 Name of the course:** High Energy Astrophysics

**University degree:** Fisymat PhD Program

**Start date:** 10/02/2016

**End date:** 02/2016

**Entity:** Universidad de Granada

**Faculty, institute or centre:** Facultad de Ciencias

**End date:** 13/02/2016

**Type of entity:** University

**4 Name of the course:** High Energy Astrophysics

**University degree:** Fisymat PhD Program

**Start date:** 06/02/2015

**End date:** 02/2015

**Entity:** Universidad de Granada

**Faculty, institute or centre:** Facultad de Ciencias

**End date:** 20/02/2015

**Type of entity:** University

**5 Name of the course:** High Energy Astrophysics

**University degree:** Fisymat PhD Program

**Start date:** 11/12/2013

**End date:** 12/2013

**Entity:** Universidad de Granada

**Faculty, institute or centre:** Facultad de Ciencias

**End date:** 14/12/2013

**Type of entity:** University

**6 Name of the course:** High Energy Astrophysics

**University degree:** Fisymat PhD Program

**Start date:** 05/02/2013

**End date:** 02/2013

**Entity:** Universidad de Granada

**Faculty, institute or centre:** Facultad de Ciencias

**End date:** 14/02/2013

**Type of entity:** University

**7 Name of the course:** High Energy Astrophysics

**University degree:** Fisymat PhD Program

**Start date:** 13/02/2012

**End date:** 02/2012

**Entity:** Universidad de Granada

**Faculty, institute or centre:** Facultad de Ciencias

**End date:** 16/02/2012

**Type of entity:** University

**8 Name of the course:** High Energy Astrophysics

**University degree:** Fisymat PhD Program

**Start date:** 01/03/2011

**End date:** 03/2011

**Entity:** Universidad de Granada

**Faculty, institute or centre:** Facultad de Ciencias

**End date:** 18/03/2011

**Type of entity:** University

**9 Name of the course:** High Energy Astrophysics

**University degree:** Fisymat PhD Program

**Start date:** 13/04/2009

**End date:** 04/2009

**Entity:** Universidad de Granada

**Faculty, institute or centre:** Facultad de Ciencias

**End date:** 30/04/2009

**Type of entity:** University



- 10** **Name of the course:** High Energy Astrophysics  
**University degree:** Fisymat PhD Program  
**Start date:** 07/04/2008 **End date:** 23/04/2008  
**End date:** 04/2008  
**Entity:** Universidad de Granada **Type of entity:** University  
**Faculty, institute or centre:** Facultad de Ciencias
- 11** **Name of the course:** High Energy Astrophysics  
**University degree:** Fisymat PhD Program  
**Start date:** 16/04/2007 **End date:** 04/05/2007  
**End date:** 05/2007  
**Entity:** Universidad de Granada **Type of entity:** University  
**Faculty, institute or centre:** Facultad de Ciencias

### Experience supervising doctoral thesis and/or final year projects

- 1** **Project title:** X-RAY EMISSION FROM HOT BUBBLES IN NEBULAE AROUND EVOLVED STARS  
**Co-director of thesis:** Jane Sarah Arthur  
**Entity:** Universidad de Granada **Type of entity:** University  
**Student:** Jesus Alberto Toalá Sanz  
**Date of reading:** 24/10/2014
- 2** **Project title:** ESTUDIO DE NEBULOSAS PLANETARIAS CON EMISIÓN DIFUSA EN RAYOS X  
**Entity:** Universidad de Granada **Type of entity:** University  
**Student:** Nieves Ruiz Fernández  
**Date of reading:** 21/03/2014
- 3** **Project title:** NUEVOS MÉTODOS OBSERVACIONALES DE ESTRELLAS POST-AGB Y NEBULOSAS PLANETARIAS  
**Co-director of thesis:** Luis Felipe Miranda Palacios  
**Entity:** Universidad de Granada **Type of entity:** University  
**Student:** Mónica Wendolyn Blanco Cárdenas  
**Date of reading:** 24/01/2014





## 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:** Cosmic Bubbles: A Panchromatic View  
**Type of project:** Basic research (including archaeological digs, etc)  
**Degree of contribution:** Coordinator of total project, network or consortium  
**Entity where project took place:** Instituto de Astrofísica de Andalucía **Type of entity:** State agency  
**City of entity:** Granada, Andalusia, Spain  
**Name principal investigator (PI, Co-PI....):** Guerrero, M.A.  
**Nº of researchers:** 1  
**Funding entity or bodies:** Ministerio de Economía y Competitividad **Type of entity:** State agency  
**Type of participation:** Principal investigator  
**Name of the programme:** Programa de Astronomía y Astrofísica, AYA  
**Code according to the funding entity:** AYA2014-57280-P  
**Start-End date:** 01/2015 - 12/2017 **Duration:** 3 years  
**Total amount:** 102.000 €  
**Dedication regime:** Full time
- 2** **Name of the project:** Mapping the X-ray Emission from the Wolf-Rayet Bubble NGC 6888  
**Entity where project took place:** European Space Astronomy Centre  
**Name principal investigator (PI, Co-PI....):** Toalá, J.A.; Guerrero, M.A.  
**Nº of researchers:** 5  
**Funding entity or bodies:** NASA  
XMM-Newton Guest Observer Program  
**Start-End date:** 12/2014 - 12/2016 **Duration:** 11 months  
**Participating entity/entities:** Department of Astronomy; Instituto de Astrofísica de Andalucía ; University of Illinois (USA)
- 3** **Name of the project:** Witnessing the Nebular Expansion of Born-Again Planetary Nebulae  
**Entity where project took place:** NASA **Type of entity:** State agency  
**Name principal investigator (PI, Co-PI....):** Dr. Martín A. Guerrero  
**Nº of researchers:** 9  
**Funding entity or bodies:** NASA, Hubble Space Telescope Cycle 20 General Observer Program 12935  
**Start-End date:** 11/2012 - 11/2015  
**Participating entity/entities:** Department of Astronomy of the University of Illinois (USA); Instituto de Astrofísica de Andalucía



- 4** **Name of the project:** 'Rayos X y Emisión UV en Burbujas de Gas Caliente Formadas por Vientos Estelares'  
**Entity where project took place:** Instituto de Astrofísica de Andalucía **Type of entity:** State agency  
**City of entity:** Granada, Andalusia, Spain  
**Name principal investigator (PI, Co-PI....):** Dr. Martín A. Guerrero Roncel  
**Nº of researchers:** 2  
**Funding entity or bodies:** Ministerio de Ciencia e Innovación **Type of entity:** 1  
**City funding entity:** Madrid, Community of Madrid, Spain  
**Name of the programme:** Proyecto AYA  
**Code according to the funding entity:** 2011-29754-C03-02  
**Start-End date:** 01/2012 - 08/2015 **Duration:** 3 years - 8 months  
**Participating entity/entities:** Instituto de Astrofísica de Andalucía  
**Total amount:** 154.840 €  
**Dedication regime:** Full time
- 5** **Name of the project:** 'Peering into the Cat's Eye with STIS'  
**Entity where project took place:** NASA **Type of entity:** State agency  
**Name principal investigator (PI, Co-PI....):** Dr. Martín A. Guerrero  
**Nº of researchers:** 3  
**Funding entity or bodies:** NASA, Hubble Space Telescope General Observer Program 12509  
**Start-End date:** 06/2012 - 06/2015  
**Participating entity/entities:** Department of Astronomy of the University of Illinois (USA); Instituto de Astrofísica de Andalucía
- 6** **Name of the project:** 'Probing Shock-in Winds in the Central Star of the Planetary Nebula IC 4593'  
**Identify key words:** Physics astrophysics - Stars  
**Type of project:** Basic research (including archaeological digs, etc) **Geographical area:** Non EU International  
**Degree of contribution:** Scientific coordinator  
**Entity where project took place:** NASA  
**Name principal investigator (PI, Co-PI....):** Dr. Martín A. Guerrero  
**Nº of researchers:** 8  
**Funding entity or bodies:** NASA, Chandra X-ray Observatory General Observer Program 13200819  
**Type of participation:** Co-ordinator  
**Start-End date:** 01/2012 - 12/2012 **Duration:** 1 year  
**Participating entity/entities:** Department of Astronomy of the University of Illinois (USA); Instituto de Astrofísica de Andalucía ; Johns Hopkins University (USA); Macquarie University; Rochester Institute of Technology (USA); Sydney (Australia)  
**Total amount:** 21,25 €
- 7** **Name of the project:** 'A 30: A Case Study of Mass-Loading'  
**Entity where project took place:** NASA  
**Name principal investigator (PI, Co-PI....):** Prof. You-Hua Chu  
**Nº of researchers:** 5  
**Funding entity or bodies:** Chandra X-ray Observatory  
Cycle 12 Guest Observer Program



NASA

**Start date:** 12/2010

**Duration:** 11 months

**Participating entity/entities:** Department of Astronomy of the University of Illinois (USA); Department of Astronomy of the University of Potsdam (Germany); Instituto de Astrofísica de Andalucía

**Total amount:** 41.383 €

**8 Name of the project:** 'X-ray emission from the PN Abell 30 and its born-again central star'

**Entity where project took place:** NASA

**Name principal investigator (PI, Co-PI....):** Prof. Wolf-Rainer Hamann

**Nº of researchers:** 5

**Funding entity or bodies:**

NASA

XMM-Newton AO8 Guest Observer Program

**Start date:** 01/2010

**Duration:** 11 months

**Participating entity/entities:** Department of Astronomy of the University of Illinois (USA); Department of Astronomy of the University of Potsdam (Germany); Instituto de Astrofísica de Andalucía

**Total amount:** 29.367 €

**9 Name of the project:** 'Progressive star formation and energy feedback in the starburst

**Name principal investigator (PI, Co-PI....):** Dr. Lida Oskinova

**Nº of researchers:** 9

**Funding entity or bodies:**

Chandra X-ray Observatory

Cycle 11 Guest Observer Program

NASA

**Start date:** 12/2009

**Duration:** 11 months

**Participating entity/entities:** Department of Astronomy of the University of Illinois (USA); Department of Astronomy of the University of Potsdam (Germany); Instituto de Astrofísica de Andalucía

**Total amount:** 63.825 €

**10 Name of the project:** 'Discos, jets y vientos estelares en la formación de nebulosas planetarias y objetos asociados'

**Name principal investigator (PI, Co-PI....):** Dr. Martín A. Guerrero Roncel

**Nº of researchers:** 6

**Funding entity or bodies:**

MINISTERIO DE EDUCACION Y CIENCIA

Proyecto AYA 2008-01934

**Start date:** 01/2009

**Duration:** 2 years - 11 months

**Participating entity/entities:** Instituto de Astrofísica de Andalucía

**Total amount:** 66.500 €

**11 Name of the project:** 'X-ray Emission from the Hot White Dwarf KPD 0005+5106: Corona or Accretion?'

**Name principal investigator (PI, Co-PI....):** Prof. You-Hua Chu

**Nº of researchers:** 6

**Funding entity or bodies:**

Chandra X-ray Observatory

Cycle 9 Guest Observer Program



NASA

**Start date:** 12/2007

**Duration:** 11 months

**Participating entity/entities:** Department of Astronomy of the University of Illinois (USA); Instituto de Astrofísica de Andalucía

**Total amount:** 38.183 €

**12 Name of the project:** 'Estudio de formación de estrellas y planetas y últimos estadios de evolución estelar mediante técnicas interferométricas'

**Name principal investigator (PI, Co-PI....):** Dr. José Francisco Gómez

**Nº of researchers:** 12

**Funding entity or bodies:**

Junta de Andalucía

Proyecto FQM-1747

**Start date:** 01/2007

**Duration:** 2 years - 11 months

**Participating entity/entities:** Institut d'Estudis Espacials de Catalunya (IEEC); Instituto de Astrofísica de Andalucía ; Laboratorio de Astrofísica Espacial y Física Fundamental (LAEFF); Universidad de Granada

**Total amount:** 164.979,92 €

**13 Name of the project:** 'Hot Gas and Thermal Conduction in Planetary'

**Name principal investigator (PI, Co-PI....):** Dr. Robert A. Gruendl

**Nº of researchers:** 6

**Funding entity or bodies:**

Chandra X-ray Observatory

Guest Observer Program

NASA

**Start date:** 12/2006

**Duration:** 11 months

**Participating entity/entities:** Department of Astronomy; Instituto de Astrofísica de Andalucía ; University of Illinois (USA)

**Total amount:** 57.350 €

**14 Name of the project:** 'Hot Gas in The Eskimo Nebula: Shocked Fast Stellar Wind or Fast Collimated Outflows?'

**Name principal investigator (PI, Co-PI....):** Dr. Robert A. Gruendl

**Nº of researchers:** 8

**Funding entity or bodies:**

Chandra X-ray Observatory

Cycle 8

Guest Observer Program

NASA

**Start date:** 12/2006

**Duration:** 11 months

**Participating entity/entities:** Department of Astronomy; Instituto de Astrofísica de Andalucía ; University of Illinois (USA)

**Total amount:** 21.473 €



- 15 Name of the project:** 'RGS Observations of the Planetary Nebulae NGC 6543'  
**Name principal investigator (PI, Co-PI....):** Dr. Robert A. Gruendl  
**Nº of researchers:** 3  
**Funding entity or bodies:**  
NASA  
XMM-Newton Guest Observer Program NNG06GE67G  
**Start date:** 03/2006 **Duration:** 11 months  
**Participating entity/entities:** Department of Astronomy; Instituto de Astrofísica de Andalucía ; University of Illinois (USA)  
**Total amount:** 31.300 €
- 16 Name of the project:** 'Estudio de la Formación y Evolución de las Nebulosas Planetarias desde la Fase de Gigante hasta sus Últimas Fases Nebulares '  
**Name principal investigator (PI, Co-PI....):** Dr. Martín A. Guerrero Roncel  
**Nº of researchers:** 5  
**Funding entity or bodies:**  
MINISTERIO DE EDUCACION Y CIENCIA  
Proyecto AYA 2005-01495  
**Start date:** 01/2006 **Duration:** 2 years - 11 months  
**Participating entity/entities:** Instituto de Astrofísica de Andalucía  
**Total amount:** 60.000 €
- 17 Name of the project:** 'Radioastronomía'  
**Name principal investigator (PI, Co-PI....):** Dr. Antxon Alberdi Odriozola  
**Nº of researchers:** 10  
**Funding entity or bodies:**  
Junta de Andalucía  
Proyecto TIC 126  
**Start date:** 01/2006 **Duration:** 1 year - 11 months  
**Participating entity/entities:** Instituto de Astrofísica de Andalucía  
**Total amount:** 28.779,8 €
- 18 Name of the project:** 'Probing the AGB Stellar Dynamo in the Very Young Planetary Nebula K 3-35'  
**Name principal investigator (PI, Co-PI....):** Dr. Robert A. Gruendl  
**Nº of researchers:** 4  
**Funding entity or bodies:**  
NASA  
XMM-Newton Guest Observer Program NNG05GK69G  
**Start date:** 06/2005 **Duration:** 11 months  
**Participating entity/entities:** Department of Astronomy; University of Illinois (USA)  
**Total amount:** 20.500 €
- 19 Name of the project:** 'Radioastronomía'  
**Name principal investigator (PI, Co-PI....):** Dr. Antxon Alberdi Odriozola  
**Nº of researchers:** 7  
**Funding entity or bodies:**  
Junta de Andalucía



Proyecto TIC 126

**Start date:** 01/2005

**Duration:** 11 months

**Participating entity/entities:** Instituto de Astrofísica de Andalucía

**Total amount:** 10.578,75 €

**20 Name of the project:** 'XMM-Newton Mapping of the Wind-Blown Bubble S 308'

**Name principal investigator (PI, Co-PI....):** Prof. You-Hua Chu

**Nº of researchers:** 4

**Funding entity or bodies:**

Grant NNG 04GH99G

NASA

XMM-Newton Guest Observer Program

**Start date:** 05/2004

**Duration:** 1 year

**Participating entity/entities:** Department of Astronomy; University of Illinois (USA)

**Total amount:** 52.000 €

**21 Name of the project:** 'An X-ray Survey of Hot Gas in Planetary Nebulae'

**Name principal investigator (PI, Co-PI....):** Prof. You-Hua Chu

**Nº of researchers:** 4

**Funding entity or bodies:**

Grant NNG 04GE63G

NASA

XMM-Newton Guest Observer Program

**Start date:** 03/2004

**Duration:** 2 years

**Participating entity/entities:** Department of Astronomy; University of Illinois (USA)

**Total amount:** 53.000 €

**22 Name of the project:** 'Resolving the Conduction Front in the Bubble S 308'

**Name principal investigator (PI, Co-PI....):** Prof. You-Hua Chu

**Nº of researchers:** 5

**Funding entity or bodies:**

FUSE Guest Observer Program

Grant NNG 04GE54G

NASA

**Start date:** 03/2004

**Duration:** 2 years

**Participating entity/entities:** Department of Astronomy; University of Illinois (USA)

**Total amount:** 31.500 €

**23 Name of the project:** 'O VI Emission from Planetary Nebulae'

**Name principal investigator (PI, Co-PI....):** Dr. Martín A. Guerrero Roncel

**Nº of researchers:** 3

**Funding entity or bodies:**

FUSE Guest Observer Program

Grant NAG 5 – 13703

NASA



**Start date:** 04/2003

**Duration:** 11 months

**Participating entity/entities:** Department of Astronomy; University of Illinois (USA)

**Total amount:** 31.500 €

**24 Name of the project:** 'Hot Gas in the Circumstellar Bubble NGC 6888'

**Name principal investigator (PI, Co-PI....):** Dr. Robert A. Gruendl

**Nº of researchers:** 3

**Funding entity or bodies:**

Chandra X-ray Observatory Guest Observer Program

Grant SAO GO3-4023X

NASA

**Start date:** 03/2003

**Duration:** 1 year

**Participating entity/entities:** Department of Astronomy; University of Illinois (USA)

**Total amount:** 68.404 €

**25 Name of the project:** 'X-ray Emission from Wolf-Rayet Stars in the Magellanic Clouds'

**Name principal investigator (PI, Co-PI....):** Dr. Martín A. Guerrero Roncel

**Nº of researchers:** 6

**Funding entity or bodies:**

Chandra X-ray Observatory Archival Program

Grant SAO AR3-4001X

NASA

**Start date:** 12/2002

**Duration:** 1 year

**Participating entity/entities:** Department of Astronomy; University of Illinois (USA)

**Total amount:** 85.180 €

**26 Name of the project:** 'Medio Interestelar: Estudios de Alta Resolución de Discos y Jets en Objetos Jóvenes y Nebulosas Planetarias'

**Name principal investigator (PI, Co-PI....):** Dr. Luis F. Miranda Palacios

**Nº of researchers:** 8

**Funding entity or bodies:**

Ministerio de Ciencia y Tecnología

Proyecto AYA 2002-00376

**Start date:** 10/2002

**Duration:** 2 years - 11 months

**Participating entity/entities:** Instituto de Astrofísica de Andalucía

**Total amount:** 156.920 €

**27 Name of the project:** 'A ROSAT Survey for Hard X-ray from White Dwarfs'

**Name principal investigator (PI, Co-PI....):** Dr. You-Hua Chu

**Nº of researchers:** 4

**Funding entity or bodies:**

Astrophysical Data Program (ADP)

Grant NAG 5-13076

NASA

**Start date:** 07/2002

**Duration:** 11 months

**Participating entity/entities:** Department of Astronomy; University of Illinois (USA)



**Total amount:** 47.000 €

- 28 Name of the project:** 'O VI Emission from the Cat's Eye Nebula'  
**Name principal investigator (PI, Co-PI....):** Dr. Martín A. Guerrero Roncel  
**Nº of researchers:** 3  
**Funding entity or bodies:**  
FUSE Guest Observer Program  
Grant NAG 5 – 12255  
NASA  
**Start date:** 06/2002 **Duration:** 1 year  
**Participating entity/entities:** Department of Astronomy; University of Illinois (USA)  
**Total amount:** 52.400 €
- 29 Name of the project:** 'Hot gas in planetary nebulae'  
**Name principal investigator (PI, Co-PI....):** Dr. Robert A. Gruendl  
**Nº of researchers:** 3  
**Funding entity or bodies:**  
FUSE Guest Observer Program  
Grant NAG 5 – 10182  
NASA  
**Start date:** 02/2001 **Duration:** 1 year - 11 months  
**Participating entity/entities:** Department of Astronomy; University of Illinois (USA)  
**Total amount:** 59.700 €
- 30 Name of the project:** 'Hot gas in wind-blown bubbles'  
**Name principal investigator (PI, Co-PI....):** Prof. You-Hua Chu  
**Nº of researchers:** 5  
**Funding entity or bodies:**  
Grant NAG 5 – 10037  
NASA  
XMM-Newton Guest Observer Program  
**Start date:** 10/2000 **Duration:** 1 year - 11 months  
**Participating entity/entities:** Department of Astronomy; University of Illinois (USA)  
**Total amount:** 39.695 €
- 31 Name of the project:** 'NGC 7009: Testing the Wind-Wind Interaction Formation of Planetary Nebulae'  
**Name principal investigator (PI, Co-PI....):** Prof. You-Hua Chu  
**Nº of researchers:** 3  
**Funding entity or bodies:**  
Grant NAG 5 – 10042  
NASA  
XMM-Newton Guest Observer Program  
**Start date:** 10/2000 **Duration:** 1 year - 11 months  
**Participating entity/entities:** Department of Astronomy; University of Illinois (USA)  
**Total amount:** 43.662 €





- 32** **Name of the project:** 'Shocked Stellar Winds in Planetary Nebulae'  
**Name principal investigator (PI, Co-PI....):** Prof. You-Hua Chu  
**Nº of researchers:** 5  
**Funding entity or bodies:**  
Chandra X-ray Observatory  
Grant GO 0--1004X  
**Start date:** 12/1999 **Duration:** 1 year - 5 months  
**Participating entity/entities:** Department of Astronomy; University of Illinois (USA)  
**Total amount:** 81.000 €
- 33** **Name of the project:** 'Nebulosas Planetarias Anulares'  
**Name principal investigator (PI, Co-PI....):** Dra. Minia Manteiga  
**Nº of researchers:** 14  
**Funding entity or bodies:**  
DGYCIT  
proyecto PB97 – 1435 – C02 – 01  
**Start date:** 10/1998 **Duration:** 2 years - 11 months  
**Participating entity/entities:** Agencia Española de Cooperación Internacional; Instituto de Astrofísica de Canarias; Isaac Newton Group; Nordic Optical Telescope; Universidad de La Laguna  
**Total amount:** 30.000 €
- 34** **Name of the project:** 'Últimos Estadios de la Evolución Estelar'  
**Name principal investigator (PI, Co-PI....):** Dr. Antonio Mampaso Recio  
**Nº of researchers:** 11  
**Funding entity or bodies:**  
DGYCIT  
proyecto PB94--1108  
**Start date:** 1995 **Duration:** 3 years  
**Participating entity/entities:** Instituto de Astrofísica de Canarias  
**Total amount:** 54.000 €
- 35** **Name of the project:** 'Evolución Estelar Post-AGB'  
**Name principal investigator (PI, Co-PI....):** Dr. Pedro García Lario  
**Nº of researchers:** 8  
**Funding entity or bodies:**  
DGYCIT  
proyecto PB94--1274  
**Start date:** 1994 **Duration:** 3 years  
**Participating entity/entities:** European Space Astronomy Centre; INTA; Instituto de Astrofísica de Canarias; Laboratorio de Astrofísica Espacial y Física Fundamental; Planetario de Madrid  
**Total amount:** 27.045 €



## Scientific and technological activities

### Scientific production

#### Publications, scientific and technical documents

- 1** Jesús A Toalá; Gerardo Ramos Larios; Martín A. Guerrero Roncel; Helge Todt. Hidden IR structures in NGC 40: signpost of an ancient born-again event. *Monthly Notices of the Royal Astronomical Society*. 485, pp. 3360 - 3369. 05/2019.

**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** No
- 2** Edgar Santamaría; Martín A. Guerrero Roncel; Gerardo Ramos Larios. Measuring the expansion and age of the nova shell IPHASX J210204.7 + 471015. *Monthly Notices of the Royal Astronomical Society*. 483, pp. 3773 - 3780. 01/2019.

**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** Yes
- 3** G. Orosz; José Francisco Gómez; H. Imai; Martín A. Guerrero Roncel. Rapidly evolving episodic outflow in IRAS 18113-2503: clues to the ejection mechanism of the fastest water fountain. *Monthly Notices of the Royal Astronomical Society*. 482, pp. L40 - L45. 01/2019.

**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** No
- 4** Roberto Ortiz; Martín A. Guerrero Roncel; Roberto D. D. Costa. Ultraviolet and optical spectroscopy of AGB stars showing UV excess. *Monthly Notices of the Royal Astronomical Society*. 482, pp. 4697 - 4712. 01/2019.

**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** No
- 5** Jesús A. Toalá Sanz; Lida Oskinova; Wolf-Rainer Hamann. On the Apparent Absence of Wolf-Rayet+Neutron Star Systems: The Curious Case of WR124. *The Astrophysical Journal Letters*. 896, pp. 11 - +5. 12/2018.

**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** No
- 6** Carolina Kehrig; José Manuel Vílchez Medina; Martín A. Guerrero Roncel. The extended He II  $\lambda$ 4686 emission in the extremely metal-poor galaxy SBS 0335 - 052E seen with MUSE. *Monthly Notices of the Royal Astronomical Society*. 480, pp. 1081 - 1095. 10/2018.

**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** No
- 7** M.A. Guerrero; X. Fang. The inside-out planetary nebula around a born-again star. *Nature Astronomy*. 2, pp. 784 - 789. 08/2018.

**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** No
- 8** X. Fang; Y. Zhang; S. Kwok; C.-H. Hsia; W. Chau; G. Ramos-Larios; M.A. Guerrero. Extended Structures of Planetary Nebulae Detected in H $\alpha$  Emission. *The Astrophysical Journal*. 859, pp. 92 - +23. 06/2018.

**Type of production:** Scientific paper **Format:** Journal



**Corresponding author:** No

- 9** A. González-Galán; L.M. Oskinova; S.B. Popov; F. Haberl; M. Kühnel; J. Gallagher; M.P.E. Schurch; M.A. Guerrero. A multiwavelength study of SXP 1062, the long-period X-ray pulsar associated with a supernova remnant. *Monthly Notices of the Royal Astronomical Society*. 475, pp. 2809 - 2821. 04/2018.  
**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** No
- 10** M.A. Guerrero; L. Sabin; G. Tovmassian; E. Santamaría; R. Michel; G. Ramos-Larios; A. Alarie; C. Morisset; L.C. Bermúdez Bustamante; C.P. González; N.J. Wright. Discovery of a New Classical Nova Shell Around a Nova-like Cataclysmic Variable. *The Astrophysical Journal*. 857, pp. 80 - +18. 04/2018.  
**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** Yes
- 11** G. Ramos-Larios; M.A. Guerrero; A. Nigoche-Netro; L. Olguín; M.A. Gómez-Muñoz; L. Sabin; R. Vázquez; S. Akra; J.-C. Ramírez Vélez; M. Chávez. The interaction of the halo around the butterfly planetary nebula NGC 650-1 with the interstellar medium. *Monthly Notices of the Royal Astronomical Society*. 475, pp. 932 - 941. 03/2018.  
**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** No
- 12** X. Fang; R. García-Benito; M.A. Guerrero; Y. Zhang; X. Liu; C. Morisset; A.I. Karakas; M.M. Miller Bertolami; H. Yuan; A. Cabrera-Lavers. Chemical Abundances of Planetary Nebulae in the Substructures of M31. II. The Extended Sample and a Comparison Study with the Outer-disk Group. *The Astrophysical Journal*. 853, pp. 50 - +33. 01/2018.  
**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** No
- 13** Ramos-Larios, G.; Guerrero, M. A.; Sabin, L.; Santamaria, E. Pushing the limits: detecting H<sub>2</sub> emission from faint bipolar planetary nebulae in the IPHAS sample. *Monthly Notices of the Royal Astronomical Society (MNRAS)*. 470, pp. 3707 - 3719. 09/2017.  
**Type of production:** Scientific paper  
**Corresponding author:** No
- 14** Toalá, J.A.; Guerrero, M.A.; Chu, Y.-H.; Arthur, S.J.; Tafoya, D. X-ray emission from the Wolf-Rayet bubble NGC 6888 - II. XMM-Newton EPIC observations. *Monthly Notices of the Royal Astronomical Society (MNRAS)*. 456, pp. 4305 - 4314. 09/2017.  
**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** No
- 15** Sabin, L.; Gómez-Muñoz, M. A.; Guerrero, M. A.; Zavala, S.; Ramos-Larios, G.; Vázquez, R.; Corral, L.; Blanco Cárdenas, M. W.; Guillén, P. F.; Olguín, L.; Morisset, C.; Navarro, S. Catching a Grown-Up Starfish Planetary Nebula: I. Morpho-Kinematical study of PC 22. *Monthly Notices of the Royal Astronomical Society (MNRAS)*. 467, pp. 3056 - 3065. 05/2017.  
**Type of production:** Scientific paper  
**Corresponding author:** No
- 16** Tafoya, D.; Toalá, J.A.; Vlemmings, W. H. T.; Guerrero, M.A.; De Beck, E.; González, M.; Kimeswenger, S.; Zijlstra, A. A.; Sánchez-Monge, Á.; Treviño-Morales, S. P. (sub)Millimeter Emission Lines of Molecules in Born-again Stars. *Astronomy & Astrophysics*. 600, pp. A23 - +7. 04/2017.  
**Type of production:** Scientific paper  
**Corresponding author:** No



- 17** Ramos-Larios, G.; Santamaría, E.; Guerrero, M.A.; Marquez-Lugo, R.A.; Sabin, L.; Toalá, J.A. Rings and arcs around evolved stars - I. Fingerprints of the last gasps in the formation process of planetary nebulae. *Monthly Notices of the Royal Astronomical Society (MNRAS)*. 462, pp. 610 - 635. 10/2016.  
**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** No
- 18** Ortiz, R.; Guerrero, M.A. Ultraviolet emission from main-sequence companions of AGB stars. *Monthly Notices of the Royal Astronomical Society (MNRAS)*. 461, pp. 3036 - 3046. 09/2016.  
**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** No
- 19** Mata, H.; Ramos-Larios, G.; Guerrero, M.A.; Nigoche-Netro, A.; Toalá, J.A.; Fang, X.; Rubio, G.; Kemp, S.N.; Navarro, S.G.; Corral, L.J. Spitzer mid-infrared spectroscopic observations of planetary nebulae. *Monthly Notices of the Royal Astronomical Society (MNRAS)*. 459, pp. 841 - 835. 06/2016.  
**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** No
- 20** Fang, X.; Guerrero, M.A.; Toalá, J.A.; Chu, Y.-H.; Gruendl, R.A. HST STIS Observations of the Mixing Layer in the Cat's Eye Nebula. *The Astrophysical Journal Letters (ApJL)*. 822, pp. L19 - +5. 05/2016.  
**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** No
- 21** Toalá, J.A.; Marston, A.; Guerrero, M.A.; Chu, Y.-H.; R.A. Gruendl. X-Ray Observations of Bow Shocks around Runaway O Stars. The Case of  $\zeta$  Oph and BD+43°3654. *The Astrophysical Journal (ApJ)*. 846, pp. 76 - 87. 04/2016.  
**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** No
- 22** Toalá, J.A.; Guerrero, M.A.; Chu, Y.-H.; Arthur, S.J.; Tafoya, D.; Gruendl, R.A. X-Ray emission from the Wolf-Rayet bubble NGC 6888 - II. XMM-Newton EPIC observations. *Monthly Notices of the Royal Astronomical Society (MNRAS)*. 456, pp. 4305 - 4314. 03/2016.  
**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** No
- 23** X. Fang; R. Garcia-Benito; M.A. Guerrero; X. Liu; H. Yuan; Y. Zhang; B. Zhang. CHEMICAL ABUNDANCES of PLANETARY NEBULAE in the SUBSTRUCTURES of M31. *The Astrophysical Journal (ApJ)*. 815, pp. 69 - +22. 12/2015. Available on-line at: <http://www.scopus.com/inward/record.url?eid=2-s2.0-84951275631&partnerID=MN8TOARS>.  
**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** No
- 24** R.A. Marquez-Lugo; M.A. Guerrero; G. Ramos-Larios; L.F. Miranda. The excitation mechanism of H<sub>2</sub> in bipolar planetary nebulae. *Monthly Notices of the Royal Astronomical Society (MNRAS)*. 453, pp. 1888 - 1897. 10/2015. Available on-line at: <http://www.scopus.com/inward/record.url?eid=2-s2.0-84942475031&partnerID=MN8TOARS>.  
**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** Yes
- 25** X. Fang; M.A. Guerrero; L.F. Miranda; A. Riera; P.F. Velázquez; A.C. Raga. Hu 1-2: A metal-poor bipolar planetary nebula with fast collimated outflows. *Monthly Notices of the Royal Astronomical Society (MNRAS)*. 452, pp. 2445 - 2462. 09/2015. Available on-line at: <http://www.scopus.com/inward/record.url?eid=2-s2.0-84945901094&partnerID=MN8TOARS>.  
**Type of production:** Scientific paper **Format:** Journal



**Corresponding author:** No

- 26** J.F. Gómez; J.R. Rizzo; O. Suárez; A. Palau; L.F. Miranda; M.A. Guerrero; G. Ramos-Larios; J.M. Torrelles. A search for water maser emission toward obscured post-AGB star and planetary nebula candidates. *Astronomy & Astrophysics (A&A)*. 578, pp. 119 - +15. 06/2015. Available on-line at: <<http://www.scopus.com/inward/record.url?eid=2-s2.0-84934937971&partnerID=MN8TOARS>>.  
**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** No
- 27** O. Suárez; J.F. Gómez; P. Bendjoya; L.F. Miranda; M.A. Guerrero; L. Uscanga; J.A. Green; J.R. Rizzo; G. Ramos-Larios. TIME-VARIABLE NON-THERMAL EMISSION in the PLANETARY NEBULA IRAS 15103-5754. *The Astrophysical Journal (ApJ)*. 806, pp. 105 - 112. 06/2015. Available on-line at: <<http://www.scopus.com/inward/record.url?eid=2-s2.0-84934998709&partnerID=MN8TOARS>>.  
**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** No
- 28** J.A. Toalá; M.A. Guerrero; G. Ramos-Larios; V. Guzmán. WISE morphological study of Wolf-Rayet nebulae. *Astronomy & Astrophysics (A&A)*. 578, pp. 66 - 76. 06/2015. Available on-line at: <<http://www.scopus.com/inward/record.url?eid=2-s2.0-84930959083&partnerID=MN8TOARS>>.  
**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** No
- 29** R. Montez Jr.; J.H. Kastner; B. Balick; E. Behar; E. Blackman; V. Bujarrabal; Y.-H. Chu; R.L.M. Corradi; O. De Marco; A. Frank; M. Freeman; D.J. Frew; M.A. Guerrero; D. Jones; J.A. Lopez; B. Miszalski; J. Nordhaus; Q.A. Parker; R. Sahai; C. Sandin; D. Schonberner; N. Soker; J.L. Sokoloski; M. Steffen; J.A. Toalá; T. Ueta; E. Villaver; A. Zijlstra. The chandra planetary nebula survey (chanplaNS). III. X-ray emission from the central stars of planetary nebulae. *The Astrophysical Journal (ApJ)*. 800, pp. 8 - 26. 02/2015. Available on-line at: <<http://www.scopus.com/inward/record.url?eid=2-s2.0-84922578628&partnerID=MN8TOARS>>.  
**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** No
- 30** J.F. Gómez; O. Suárez; P. Bendjoya; J.R. Rizzo; L.F. Miranda; J.A. Green; L. Uscanga; E. García-García; E. Lagadec; M.A. Guerrero; G. Ramos-Larios. The first "water fountain" collimated outflow in a planetary nebula. *The Astrophysical Journal (ApJ)*. 799, pp. 186 - 193. 02/2015. Available on-line at: <<http://www.scopus.com/inward/record.url?eid=2-s2.0-84922570641&partnerID=MN8TOARS>>.  
**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** No
- 31** M.A. Guerrero; J.A. Toalá; Y.-H. Chu; R.A. Gruendl. XMM-Newton RGS observations of the cat's eye nebula. *Astronomy & Astrophysics (A&A)*. 574, pp. 1 - 5. 02/2015. Available on-line at: <<http://www.scopus.com/inward/record.url?eid=2-s2.0-84921344786&partnerID=MN8TOARS>>.  
**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** Yes
- 32** G. Rubio; R. Vázquez; G. Ramos-Larios; M.A. Guerrero; L. Olgún; P.F. Guillén; H. Mata. NGC 6309, a planetary nebula that shifted from round to multipolar. *Monthly Notices of the Royal Astronomical Society (MNRAS)*. 446, pp. 1931 - 1938. 01/2015. Available on-line at: <<http://www.scopus.com/inward/record.url?eid=2-s2.0-84939486310&partnerID=MN8TOARS>>.  
**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** No



- 33** J.A. Toalá; M.A. Guerrero; Y.-H. Chu; R.A. Gruendl. On the diffuse X-ray emission from the wolf-rayet bubble NGC 2359. *Monthly Notices of the Royal Astronomical Society (MNRAS)*. 446, pp. 1083 - 1089. 01/2015. Available on-line at: <<http://www.scopus.com/inward/record.url?eid=2-s2.0-84924440665&partnerID=MN8TOARS>>.  
**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** No
- 34** J.A. Toalá; M.A. Guerrero; H. Todt; W.-R. Hamann; Y.-H. Chu; R.A. Gruendl; D. Schönberner; L.M. Oskinova; R.A. Marquez-Lugo; X. Fang; G. Ramos-Larios. The born-again planetary nebula A78: An x-ray twin of A30. *The Astrophysical Journal (ApJ)*. 799, pp. 67 - 76. 01/2015. Available on-line at: <<http://www.scopus.com/inward/record.url?eid=2-s2.0-84921462056&partnerID=MN8TOARS>>.  
**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** No
- 35** X. Fang; M.A. Guerrero; R.A. Marquez-Lugo; J.A. Toalá; S.J. Arthur; Y.-H. Chu; W.P. Blair; R.A. Gruendl; W.-R. Hamann; L.M. Oskinova; H. Todt. Expansion of hydrogen-poor knots in the born-again planetary nebulae A30 and A78. *The Astrophysical Journal (ApJ)*. 797, pp. 100 - 110. 12/2014. Available on-line at: <<http://www.scopus.com/inward/record.url?eid=2-s2.0-84916241415&partnerID=MN8TOARS>>.  
**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** No
- 36** L. Sabin; Q.A. Parker; R.L.M. Corradi; L. Guzman-Ramirez; R.A.H. Morris; A.A. Zijlstra; I.S. Bojčić; D.J. Frew; M. Guerrero; M. Stupar; M.J. Barlow; F. Cortés Mora; J.E. Drew; R. Greimel; P. Groot; J.M. Irwin; M.J. Irwin; A. Mampaso; B. Miszalski; L. Olgún; S. Phillipps; M.S. García; K. Viironen; N.J. Wright. First release of the IPHAS catalogue of new extended planetary nebulae. *Monthly Notices of the Royal Astronomical Society (MNRAS)*. 443, pp. 3388 - 3401. 10/2014. Available on-line at: <<http://www.scopus.com/inward/record.url?eid=2-s2.0-84907300424&partnerID=MN8TOARS>>.  
**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** No
- 37** R. Montez; M. Freeman; R. Montez; J.H. Kastner; B. Balick; D.J. Frew; D. Jones; B. Miszalski; R. Sahai; E. Blackman; Y.-H. Chu; O. De Marco; A. Frank; M.A. Guerrero; J.A. Lopez; A. Zijlstra; V. Bujarrabal; R.L.M. Corradi; J. Nordhaus; Q.A. Parker; C. Sandin; D. Schönberner; N. Soker; J.L. Sokoloski; M. Steffen; J.A. Toalá; T. Ueta; E. Villaver. The Chandra Planetary Nebula Survey (CHANPLANS). II. X-ray emission from compact planetary nebulae. *The Astrophysical Journal (ApJ)*. 794, pp. 99 - 111. 10/2014. Available on-line at: <<http://www.scopus.com/inward/record.url?eid=2-s2.0-84907705547&partnerID=MN8TOARS>>.  
**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** No
- 38** M.W. Blanco Cárdenas; H.U. Käufl; M.A. Guerrero; L.F. Miranda; A. Seifahrt. CRIRES-VLT high-resolution spectro-astrometry as a tool in the search for disks inside the cores of planetary nebulae. *Astronomy & Astrophysics (A&A)*. 566, pp. 133 - +5. 06/2014. Available on-line at: <<http://www.scopus.com/inward/record.url?eid=2-s2.0-84903154992&partnerID=MN8TOARS>>.  
**Type of production:** Scientific paper **Format:** Journal
- 39** J.A. Toalá; M.A. Guerrero; R.A. Gruendl; Y.-H. Chu. X-ray emission from the wolf-rayet bubble NGC 6888. I. Chandra ACIS-S observations. *The Astronomical Journal (AJ)*. 147, pp. 30 - 37. 02/2014. Available on-line at: <<http://www.scopus.com/inward/record.url?eid=2-s2.0-84892709913&partnerID=MN8TOARS>>.  
**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** No
- 40** M.W. Blanco; M.A. Guerrero; L.F. Miranda; E. Lagadec; O. Suárez. Near-and mid-IR morphology of the water maser emitting planetary nebula K 3-35. *Astronomy & Astrophysics (A&A)*. 561, pp. 81 - 88. 01/2014. Available on-line at: <<http://www.scopus.com/inward/record.url?eid=2-s2.0-84891712044&partnerID=MN8TOARS>>.  
**Type of production:** Scientific paper **Format:** Journal

**Corresponding author:** No

- 41** J.A. Toalá; M.A. Guerrero. Absence of hot gas within the Wolf-Rayet bubble around WR16. *Astronomy & Astrophysics (A&A)*. 559, pp. A52 - +6. 11/2013. Available on-line at: <<http://www.scopus.com/inward/record.url?eid=2-s2.0-84902460133&partnerID=MN8TOARS>>.  
**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** No
- 42** M.A. Guerrero; J.A. Toalá; J.J. Medina; V. Luridiana; L.F. Miranda; A. Riera; P.F. Velázquez. Unveiling shocks in planetary nebulae. *Astronomy & Astrophysics (A&A)*. 557, pp. A121 - +12. 09/2013. Available on-line at: <<http://www.scopus.com/inward/record.url?eid=2-s2.0-84884482874&partnerID=MN8TOARS>>.  
**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** Yes
- 43** M.A. Guerrero; O. De Marco. Analysis of far-UV data of central stars of planetary nebulae: Occurrence and variability of stellar winds. *Astronomy & Astrophysics (A&A)*. 553, pp. A126 - +23. 05/2013. Available on-line at: <<http://www.scopus.com/inward/record.url?eid=2-s2.0-84878335150&partnerID=MN8TOARS>>.  
**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** Yes
- 44** P.M. Williams; Y.-H. Chu; R.A. Gruendl; M.A. Guerrero. Variable dust formation by the colliding-wind wolf-rayet system HD 36402 in the large magellanic cloud. *Monthly Notices of the Royal Astronomical Society (MNRAS)*. 431, pp. 1160 - 1166. 05/2013. Available on-line at: <<http://www.scopus.com/inward/record.url?eid=2-s2.0-84876862546&partnerID=MN8TOARS>>.  
**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** No
- 45** Ruiz, N; Chu, Y.-H; Gruendl, R.A; Guerrero, M.A; Jacob, R; Schönberner, D; Steffen, M. Detection of Diffuse X-Ray Emission from Planetary Nebulae with Nebular O VI. *The Astrophysical Journal (ApJ)*. 767, pp. 35 - 45. 04/2013.  
**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** Yes
- 46** Oskinova, L.M; Sun, W; Evans, C.J; Hénault-Brunet, V; Chu, Y.-H; Gallagher, J.S; III, Guerrero, M.A; Gruendl, R.A; Güdel, M.; Silich, S; Chen, Y; Nazé, Y; Hainich, R; Reyes-Iturbide, J. Discovery of X-Ray Emission from Young Suns in the Small Magellanic Cloud. *The Astrophysical Journal (ApJ)*. 765, pp. 73 - 84. 03/2013.  
**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** No
- 47** M.A. Guerrero; L.F. Miranda; G. Ramos-Larios; R. Vázquez. Kn 26, a new quadrupolar planetary nebula. *Astronomy & Astrophysics (A&A)*. 551, pp. A53 - +8. 03/2013.  
**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** Yes
- 48** M.W. Blanco; M.A. Guerrero; G. Ramos-Larios; L.F. Miranda; E. Lagadec; O. Suárez; J.F. Gómez. VISIR-VLT high resolution study of the extended emission of four obscured post-AGB candidates. *Astronomy & Astrophysics (A&A)*. 551, pp. A64 - +9. 03/2013.  
**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** No
- 49** R.A. Márquez-Lugo; G. Ramos-Larios; M.A. Guerrero; R. Vázquez. On the relationship between the H<sub>2</sub> emission and the physical structure of planetary nebulae. *Monthly Notices of the Royal Astronomical Society (MNRAS)*. 429, pp. 973 - 986. 02/2013.  
**Type of production:** Scientific paper **Format:** Journal

**Corresponding author:** Yes

- 50** G. Ramos-Larios; M.A. Guerrero; O. Suárez; L.F. Miranda; J.F. Gómez. Searching Heavily Obscured Post-AGB Stars and Planetary Nebulae II. Near IR Observations of IRAS Sources. *Astronomy & Astrophysics (A&A)*. 545, pp. A20 - 60. 09/2012.  
**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** Yes
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**Type of production:** Scientific paper **Format:** Journal
- 120** Gorosabel; J.; Castro-Tirado; A. J.; Pedersen; H.; Greiner; J.; Thompson; D.; Guerrero; M. A.; Oscoz; A.; Sabalisk; N.; Villaver; E.; Lund; N. Optical and Near-Infrared Observations of the GRB 970616 Error Box. Astronomy & Astrophysics Supplement Series (A&AS). 138, pp. 455 - 456. 1999.  
**Type of production:** Scientific paper **Format:** Journal
- 121** Guerrero; M. A.; Vázquez; R.; López; J. A. The Kinematics of Point-Symmetric Planetary Nebulae. The Astronomical Journal (AJ). 117, pp. 967 - 973. 1999.  
**Type of production:** Scientific paper **Format:** Journal
- 122** Guerrero; M. A.; Manchado; A. A Precessing Collimated Outflow in the Quadrupolar Planetary Nebula NGC 6881. The Astrophysical Journal (ApJ). 508, pp. 262 - 267. 1998.  
**Type of production:** Scientific paper **Format:** Journal
- 123** Guerrero; M. A.; Villaver; E.; Manchado; A. On the Kinematics of Multiple Shell Planetary Nebulae. I. Data and Expansion Velocity. The Astrophysical Journal (ApJ). 507, pp. 889 - 908. 1998.  
**Type of production:** Scientific paper **Format:** Journal
- 124** Miranda; L.; Torrelles; J.; Guerrero; M. A.; Aaquist; O. B.; Eiroa; C. The Nature and Structure of the Emission Line Nebula K 3-35: A Very Young Planetary Nebula with Precessing Bipolar Jets?. Monthly Notices of the Royal Astronomical Society (MNRAS). 298, pp. 243 - 250. 1998.  
**Type of production:** Scientific paper **Format:** Journal



- 125** Guerrero; M. A.; Machado; A.; Chu; Y.-H. Chemical Abundances and Kinematics of the Ring Nebula and Its Halos. *The Astrophysical Journal (ApJ)*. 487, pp. 328 - 345. 1997.  
**Type of production:** Scientific paper      **Format:** Journal
- 126** Méndez; R. H.; Guerrero; M. A.; Freeman; K. C.; Arnaboldi; M.; Kudritzki; R. P.; Hopp; U.; Capaccioli; M.; Ford; H. More Evidence for a Population of Intracluster Planetary Nebulae in the Virgo Cluster. *The Astrophysical Journal Letters (ApJL)*. 491, pp. 23 - 26. 1997.  
**Type of production:** Scientific paper      **Format:** Journal
- 127** Corradi; R. L. M.; Guerrero; M. A.; Machado; A.; Mampaso; A. Multiple Collimated Outflows in a Planetary Nebula?. *New Astronomy (NewA)*. 2, pp. 461 - 470. 1997.  
**Type of production:** Scientific paper      **Format:** Journal
- 128** Handler; G.; Méndez; R. H.; Medupe; R.; Costero; R.; Birch; P. V.; Álvarez; M.; Sullivan; D. J.; Kurtz; D. W.; Herrero; A.; Guerrero; M. A.; Ciardullo; R.; Breger; M. Photometric Multisite Observations of IC 418. *Astronomy & Astrophysics (A&A)*. 320, pp. 125 - 135. 1997.  
**Type of production:** Scientific paper      **Format:** Journal
- 129** Guerrero; M. A. Spatially Resolved Study of Chemical Abundances in Planetary Nebulae. *The Publications of the Astronomical Society of the Pacific (PASP)*. 109, pp. 71 - 71. 1997.  
**Type of production:** Scientific paper      **Format:** Journal
- 130** Guerrero; M. A.; Machado; A.; Serra-Ricart; M. K 4-55: A Bipolar Planetary Nebula Seen Pole-on. *The Astrophysical Journal (ApJ)*. 456, pp. 651 - 661. 1996.  
**Type of production:** Scientific paper      **Format:** Journal
- 131** Guerrero; M. A.; Machado; A.; Stanghellini; L.; Herrero; A. M 1-46: A Case Study on Multiple Shell Planetary Nebula Formation. *The Astrophysical Journal (ApJ)*. 464, pp. 847 - 856. 1996.  
**Type of production:** Scientific paper      **Format:** Journal
- 132** Machado; A.; Stanghellini; L.; Guerrero; M. A. Quadrupolar Planetary Nebulae, a new Morphological Class. *The Astrophysical Journal Letters (ApJL)*. 466, pp. 95 - 98. 1996.  
**Type of production:** Scientific paper      **Format:** Journal
- 133** Guerrero; M. A.; Machado; A. The Chemical Abundances of the Hydrogen-poor Planetary Nebulae A 30 and A 58. *The Astrophysical Journal (ApJ)*. 471, pp. 711 - 722. 1996.  
**Type of production:** Scientific paper      **Format:** Journal
- 134** Guerrero; M. A.; Stanghellini; L.; Machado; A. Extreme Nitrogen Enrichment in the Asymmetrical Planetary Nebula M 1-75. *The Astrophysical Journal Letters (ApJL)*. 444, pp. 49 - 52. 1995.  
**Type of production:** Scientific paper      **Format:** Journal
- 135** Machado, A.; Guerrero, M.A.; Stanghellini, L.; Serra-Ricart, M. The IAC Morphological Catalog of Northern Galactic Planetary Nebulae. *Publicaciones del Instituto de Astrofísica de Canarias*. pp. 1 - 150. La Lagunal Instituto de Astrofísica de Canarias, 1996.  
**Type of production:** Scientific book or monograph      **Format:** Book  
**Relevant publication:** Yes



## Works submitted to national or international conferences

- 1** **Title of the work:** GTC OSIRIS and the peculiar physics of the born-again planetary nebula HuBi 1  
**Name of the conference:** VI GTC Scientific Meeting  
**Corresponding author:** Yes  
**City of event:** Valencia, Valencian Community, Spain  
**Date of event:** 12/12/2018  
**End date:** 14/12/2018  
**Organising entity:** Universitat de València      **Type of entity:** University  
Martin Guerrero. "GTC OSIRIS and the peculiar physics of the born-again planetary nebula HuBi 1".
- 2** **Title of the work:** The X-ray Emission from Planetary Nebulae: Where, When and Why  
**Name of the conference:** APN VII: Asymmetrical Planetary Nebulae VII  
**Corresponding author:** Yes  
**City of event:** Hong-Kong, Hong Kong  
**Date of event:** 04/12/2017  
**End date:** 08/12/2017  
**Organising entity:** University of Hong-Kong      **Type of entity:** University  
"The X-ray Emission from Planetary Nebulae: Where, When and Why".
- 3** **Title of the work:** Abundances and gradients in M31  
**Name of the conference:** IAUS 323: Planetary Nebulae: Multi-Wavelength Probes of Stellar and Galactic Evolution  
**Corresponding author:** No  
**City of event:** Beijing, China  
**Date of event:** 10/10/2016  
**End date:** 14/10/2016  
**Organising entity:** International Astronomical Union  
Fang, X.; Guerrero, M.A.
- 4** **Title of the work:** Revealing the location of the mixing layer in a hot bubble  
**Name of the conference:** IAUS 323: Planetary Nebulae: Multi-Wavelength Probes of Stellar and Galactic Evolution  
**Corresponding author:** Yes  
**City of event:** Beijing, China  
**Date of event:** 10/10/2016  
**End date:** 14/10/2016  
**Organising entity:** International Astronomical Union  
Guerrero, M.A.
- 5** **Title of the work:** [WN] central stars of planetary nebulae  
**Name of the conference:** IAUS 323: Planetary Nebulae: Multi-Wavelength Probes of Stellar and Galactic Evolution  
**Corresponding author:** No  
**City of event:** Beijing, China  
**Date of event:** 10/10/2016  
**End date:** 14/10/2016  
**Organising entity:** International Astronomical Union  
Todt, H.; Miszalski, B.; Toalá, J.A.; Guerrero, M.A.





- 6** **Title of the work:** Revealing the location of the mixing layer in a hot bubble  
**Name of the conference:** XII Scientific Meeting of the Spanish Astronomical Society  
**Corresponding author:** Yes  
**City of event:** Bilbao, Basque Country, Spain  
**Date of event:** 18/07/2016  
**End date:** 22/07/2016  
**Organising entity:** Sociedad Española de Astronomía (SEA)  
Guerrero, M.A.
- 7** **Title of the work:** The First Water Fountain in a Planetary Nebula with Synchrotron Emission  
**Name of the conference:** The Physics of Evolved Stars: A Conference Dedicated to the Memory of Olivier Chesneau  
**Corresponding author:** No  
**City of event:** Nice, France  
**Date of event:** 08/06/2015  
**End date:** 12/06/2015  
**City organizing entity:** Nice Observatory,  
**Type of contribution:** Scientific book or monograph  
Suarez, O.; Gomez, J.F.; Bendjoya, P.; Miranda, L.F.; Guerrero, M.A.; Uscanga, L., Green, J.A.; Rizzo, J.R.; Ramos-Larios, G. "EAS Publications Series". 71, pp. 91 - 94. 12/2015.
- 8** **Title of the work:** Diffuse X-ray Emission within Wolf-Rayet Nebulae  
**Name of the conference:** Wolf-Rayet Stars  
**Corresponding author:** No  
**City of event:** Potsdam, Germany  
**Date of event:** 01/06/2015  
**End date:** 05/06/2015  
**Organising entity:** Potsdam Universitat  
Toala, J.A.; Guerrero, M.A.; Chu, Y.-H.; Arthur, S.J.; Gruendl, R.A. "Wolf-Rayet Stars: Proceedings of an International Workshop held in Potsdam, Germany, 1-5 June 2015. Edited by Wolf-Rainer Hamann, Andreas Sander, Helge Todt. Universitat Potsdam, 2015., p.333-336". pp. 333 - 336.
- 9** **Title of the work:** Planetary nebulae and Their Central Stars in X-rays  
**Name of the conference:** Wolf-Rayet Stars  
**Corresponding author:** Yes  
**City of event:** Potsdam, Germany  
**Date of event:** 01/06/2015  
**End date:** 05/06/2015  
**Organising entity:** Potsdam Universitat  
Guerrero, M.A. "Wolf-Rayet Stars: Proceedings of an International Workshop held in Potsdam, Germany, 1-5 June 2015. Edited by Wolf-Rainer Hamann, Andreas Sander, Helge Todt. Universitat Potsdam, 2015., p.263-266". pp. 263 - 266.
- 10** **Title of the work:** The Born-again Planetary Nebulae Abell 30 and Abell 78  
**Name of the conference:** 19th European Workshop on White Dwarfs  
**Corresponding author:** No  
**City of event:** Montreal, Canada  
**Date of event:** 11/08/2014  
**End date:** 15/08/2014  
**Type of contribution:** Scientific book or monograph



Todt, H.; Guerrero, M.A.; Fang, X.; Arthur, J.S.; Toala, J.A.; Blair, W.P.; Chu, Y.-H.; Gruendl, R.A.; Hamann, W.-R.; Oskinova, L.; Ruiz, N.; Steffen, M.; Schoenberner, D. "19th European Workshop on White Dwarfs". 493, pp. 141 - 141. 06/2015.

- 11** **Title of the work:** Hubble Space Telescope Observations of New Rings in AGB Stars, PPN and PN  
**Name of the conference:** Why Galaxies Care about AGB Stars III: A Closer Look in Space and Time  
**Corresponding author:** No  
**City of event:** Vienna, Austria  
**Date of event:** 28/07/2014  
**End date:** 01/08/2014  
**Organising entity:** International Astronomical Union  
**City organizing entity:** Vienna, Austria  
**Type of contribution:** Scientific book or monograph  
G. Ramos-Larios; E. Santamaría; M.A. Guerrero; L. Sabin. "Why Galaxies Care about AGB Stars III: A Closer Look in Space and Time". 497, pp. 401 - 401. 08/2015.
- 12** **Title of the work:** New findings on the X-ray emission from Wolf-Rayet nebulae  
**Name of the conference:** The X-ray Universe 2014  
**Corresponding author:** No  
**City of event:** Dublin, Ireland  
**Date of event:** 16/06/2014  
**End date:** 19/06/2014  
**Organising entity:** European Space Agency  
**Type of contribution:** Scientific book or monograph  
Toala, J.; Guerrero, M.A.; Chu, Y.-H.; Gruendl, R.A.; Arthur, S.J. "The X-ray Universe 2014". pp. 197 - 197. 07/2014.
- 13** **Title of the work:** CRILES-VLT spectro-astrometry: a new tool to search for disks and compact structures at the innermost regions of PNe  
**Name of the conference:** Asymmetrical Planetary Nebulae VI  
**Corresponding author:** No  
**City of event:** Playa del Carmen, Mexico  
**Date of event:** 04/11/2013  
**End date:** 08/11/2013  
**Type of contribution:** Scientific book or monograph  
Blanco Cardenas, M.; Kaufl, H.U.; Guerrero, M.A.; Miranda, L.F. "Asymmetrical Planetary Nebulae VI Conference". pp. 7 - 7. 04/2014.
- 14** **Title of the work:** Discovery of New Morphological Structures in NGC 6309  
**Name of the conference:** Asymmetrical Planetary Nebulae VI  
**Corresponding author:** No  
**City of event:** Playa del Carmen, Mexico  
**Date of event:** 04/11/2013  
**End date:** 08/11/2013  
**Type of contribution:** Scientific book or monograph  
Rubio, G.; Vazquez, R.; Ramos-Larios, G.; Guerrero, M.A.; Olguín, L.; Mata, H. "Asymmetrical Planetary Nebulae VI Conference". pp. 84 - 84. 04/2014.
- 15** **Title of the work:** First Release of the IPHAS Catalogue of Extended Planetary Nebulae  
**Name of the conference:** Asymmetrical Planetary Nebulae VI  
**Corresponding author:** No  
**City of event:** Playa del Carmen, Mexico



**Date of event:** 04/11/2013

**End date:** 08/11/2013

**Type of contribution:** Scientific book or monograph

Sabin, L.; Parker, Q.; Corradi, R.L.M.; Zijlstra, A., Morris, R.A.H.; Guzman-Ramirez, L.; Guerrero, M.A., Mampaso, A.; Frew, D."Asymmetrical Planetary Nebulae VI Conference". pp. 85 - 85. 04/2014.

**16 Title of the work:** H2 excitation temperature through mid-infrared Spitzer spectroscopy of PNe

**Name of the conference:** Asymmetrical Planetary Nebulae VI

**Corresponding author:** No

**City of event:** Playa del Carmen, Mexico

**Date of event:** 04/11/2013

**End date:** 08/11/2013

**Type of contribution:** Scientific book or monograph

Mata, H.; Ramos-Larios, G.; Guzman-Jimenez, V., Guerrero, M.A.; Rubio, G.M; Toala, J.A."Asymmetrical Planetary Nebulae VI Conference". pp. 58 - 58. 04/2014.

**17 Title of the work:** New Faint Ring-Like Structures Found in Planetary Nebulae

**Name of the conference:** Asymmetrical Planetary Nebulae VI

**Corresponding author:** No

**City of event:** Playa del Carmen, Mexico

**Date of event:** 04/11/2013

**End date:** 08/11/2013

**Type of contribution:** Scientific book or monograph

Ramos-Larios, G.; Santamaría, E.; Marquez-Lugo, A., Guerrero, M.A.; Sabin, L."Asymmetrical Planetary Nebulae VI Conference". pp. 73 - 73. 04/2014.

**18 Title of the work:** Water masers as tracers of post-AGB evolution

**Name of the conference:** Asymmetrical Planetary Nebulae VI

**Corresponding author:** No

**City of event:** Playa del Carmen, Mexico

**Date of event:** 04/11/2013

**End date:** 08/11/2013

**Type of contribution:** Scientific book or monograph

Suarez, O.; Gomez, J.F.; Bendjoya, P.; Miranda, L.F., Guerrero, M.A.; Ramos-Larios, G.; Uscanga, L., Rizzo, R."Asymmetrical Planetary Nebulae VI Conference". pp. 100 - 100. 04/2014.

**19 Title of the work:** What is happening to IRAS 15103-5754?

**Name of the conference:** Asymmetrical Planetary Nebulae VI

**Corresponding author:** No

**City of event:** Playa del Carmen, Mexico

**Date of event:** 04/11/2013

**End date:** 08/11/2013

**Type of contribution:** Scientific book or monograph

Bendjoya, P.; Suarez, O.; Gomez, J.F.; Guerrero, M.A., Miranda, L.F.; Green, J.; Uscanga, L.; Rizzo, J.R., Ramos-Larios, G."Asymmetrical Planetary Nebulae VI Conference". pp. 5 - 5. 04/2014.

**20 Title of the work:** Witnessing the Expansion of Born-Again Planetary Nebulae

**Name of the conference:** Asymmetrical Planetary Nebulae VI

**Corresponding author:** Yes

**City of event:** Playa del Carmen, Mexico

**Date of event:** 04/11/2013



**End date:** 08/11/2013

**Type of contribution:** Scientific book or monograph

Guerrero, M.A.; Fang, X.; Arthur, J.S.; Blair, W.P., Chu, Y.H.; Gruendl, R.A., Hamann, W.R.; Oskinova, L., Ruij, N.; Toala, J.A.; Todt, H."Asymmetrical Planetary Nebulae VI Conference". pp. 35 - 35. 04/2014.

**21 Title of the work:** The slow X-ray pulsar SXP 1062 and associated supernova remnant in the Wing of the Small Magellanic Cloud

**Name of the conference:** IAU Symposium 291, Neutron Stars and Pulsars: Challenges and Opportunities after 80 years

**Type of event:** Conference

**Corresponding author:** No

**City of event:** Beijing, China

**Date of event:** 20/08/2012

**End date:** 31/08/2012

**Organising entity:** International Astronomical Union (IAU)

**Type of contribution:** Scientific book or monograph

Oskinova, L.-M.; Guerrero, M.-A.; H{enault-Brunet, V., Sun, W.; Chu, Y.-H.; Evans, C.; Gallagher, J.-S., Gruendl, R.-A.; Reyes-Iturbide, J."Neutron Stars and Pulsars: Challenges and Opportunities after 80 years". 291, pp. 459 - 461. 03/2013.

**22 Title of the work:** WISE Morphological Study of Wolf-Rayet Nebulae

**Name of the conference:** IAU XXVIII General Assembly

**Type of event:** Conference

**Type of participation:** 'Participatory - poster

**City of event:** Beijing, China,

**Date of event:** 20/08/2012

**Organising entity:** IAU

Guerrero; Toalá; Ramos-Larios; Guzmán.

**23 Title of the work:** The Hot Gas Content of the Wolf-Rayet Bubbles NGC 6888 and S 308

**Name of the conference:** IAU XXVIII General Assembly

**Type of participation:** 'Participatory - poster

**City of event:** Beijing, China,

**Date of event:** 20/08/2012

**End date:** 31/08/2012

**Organising entity:** IAU

Guerrero, M.A.; Toalá, J.; Chu, Y.-H.; Gruendl, R.A.; Arthur, S.J.; Smith, R.C.; Snowden, S.L.

**24 Title of the work:** X-ray Emission from the Born-Again Planetary Nebula Abell 30

**Name of the conference:** X Scientific Meeting of the Spanish Astronomical Society (SEA)

**Type of event:** Conference

**Corresponding author:** Yes

**City of event:** Valencia, Valencian Community, Spain

**Date of event:** 09/07/2012

**End date:** 13/07/2012

**Organising entity:** Sociedad Española de Astronomía (SEA)

**Type of contribution:** Scientific book or monograph

M.-A. {Guerrero}. "Highlights of Spanish Astrophysics VII". pp. 566 - 570.



- 25** **Title of the work:** Charge-exchange reactions in the planetary nebula Abell 30?  
**Name of the conference:** X Reunión Científica de la Sociedad Española de Astronomía  
**City of event:** Valencia, España,  
**Date of event:** 09/07/2012  
**End date:** 13/07/2012  
**Organising entity:** Sociedad Española de Astronomía  
**Type of entity:** Associations and Groups  
Guerrero, M.A.
- 26** **Title of the work:** The first months in the lifetime of the newly born jet associated to Swift J1644+57  
**Name of the conference:** X Scientific Meeting of the Spanish Astronomical Society  
**Corresponding author:** No  
**City of event:** Valencia, Valencian Community, Spain  
**Date of event:** 09/07/2012  
**End date:** 13/07/2012  
**Organising entity:** Sociedad Española de Astronomía (SEA)  
Castro-Tirado, A.J.; Gomez, J.L.; Agudo, I.; Guerrero, M.A.; Bremer, M.; J.-M. and{Gorosabel} J. {Winters}; R. {Sánchez-Ramírez}; S. and{Jelinek} M. {Guziy}; J.-C. {Tello}; D. and{Reyes-Ilturbide} J. {Pérez-Ramírez}; I.-H. {Park}; S. {Jeong}; A.-S. {Pozanenko}. "Highlights of Spanish Astrophysics VII".
- 27** **Title of the work:** UV Survey of Central Stars of Planetary Nebulae. Occurrence and Variability of Stellar Winds  
**Name of the conference:** X Reunión Científica de la Sociedad Española de Astronomía  
**Type of participation:** 'Participatory - poster  
**City of event:** Valencia, España,  
**Date of event:** 09/07/2012  
**End date:** 13/07/2012  
**Organising entity:** Sociedad Española de Astronomía  
**Type of entity:** Associations and Groups  
Guerrero, M.A.; De Marco, O.
- 28** **Title of the work:** Unveiling the Sculpting Process of Planetary Nebulae with the Very Large Telescope  
**Name of the conference:** X Reunión Científica de la Sociedad Española de Astronomía  
**City of event:** Valencia, España,  
**Date of event:** 09/07/2012  
**End date:** 13/07/2012  
**Organising entity:** Sociedad Española de Astronomía  
**Type of entity:** Associations and Groups  
Blanco, M.W.; Guerrero, M.A.; Miranda, L.F.2007.
- 29** **Title of the work:** X-ray Emission from Wolf-Rayet Nebulae  
**Name of the conference:** X Reunión Científica de la Sociedad Española de Astronomía  
**Type of participation:** 'Participatory - poster  
**City of event:** Valencia, España,  
**Date of event:** 09/07/2012  
**End date:** 13/07/2012  
**Organising entity:** Sociedad Española de Astronomía  
**Type of entity:** Associations and Groups  
Toalá, J.A.; Guerrero, M.A.



- 30** **Title of the work:** GRB070610: Flares from a peculiar Galactic source  
**Name of the conference:** GAMMA-RAY BURSTS 2007: Proceedings of the Santa Fe Conference.  
**Type of event:** Conference  
**Type of participation:** 'Participatory - poster  
**City of event:** Santa Fe,  
**Date of event:** 05/09/2011  
Postigo, A. De Ugarte, Castro-Tirado, A. J.; Gorosabel, J., Fatkhullin, T. A.; Sokolov, V. V., Jelínek, M.; Sluse, D., Ferrero, P.; Kann, D. A., Klose, S., Bremer, M., Winters, J. M., Nurenberger, D., Pérez-Ramírez, D., Guerrero, M."AIP Conference Proceedings,". 1000,, pp. 337. 05/09/2011.
- 31** **Title of the work:** Ablation and Wind-Mass Loading in the Central Star of the Born-Again Planetary Nebula A 30  
**Name of the conference:** IAU Symposium 283, Planetary Nebulae, an Eye to the Future  
**Type of participation:** 'Participatory - poster  
**City of event:** Puerto de la Cruz,  
**Date of event:** 25/07/2011  
**End date:** 29/07/2011  
**Organising entity:** International Astronomical Union **Type of entity:** Associations and Groups  
Guerrero; M. A.; Chu; Y.-H.; Hamann; W.-R.; Oskinova; L.; Schönberner; D.; Todt; H.; Steffen; M.; Ruiz; N.; Gruendl; R.A.; Blair; W.
- 32** **Title of the work:** Detection of Diffuse X-ray Emission from PNe with Nebular O VI Emission or Absorption  
**Name of the conference:** IAU Symposium 283, Planetary Nebulae, an Eye to the Future  
**Type of participation:** 'Participatory - poster  
**City of event:** Puerto de la Cruz,  
**Date of event:** 25/07/2011  
**End date:** 29/07/2011  
**Organising entity:** International Astronomical Union **Type of entity:** Associations and Groups  
Guerrero; M. A.; Gruendl; R.A.; Chu; Y.-H.; Schönberner; D.; Steffen; M.; Ruiz; N.
- 33** **Title of the work:** Kn 26: a Textbook Case Hourglass Planetary Nebula with a Twist  
**Name of the conference:** IAU Symposium 283, Planetary Nebulae, an Eye to the Future  
**Type of participation:** 'Participatory - poster  
**City of event:** Puerto de la Cruz,  
**Date of event:** 25/07/2011  
**End date:** 29/07/2011  
**Organising entity:** International Astronomical Union **Type of entity:** Associations and Groups  
Guerrero; M. A.; Vázquez; R.; Miranda; L.F.; Ramos-Larios; G.
- 34** **Title of the work:** Morphological and Kinematical Analysis of the Planetary Nebula Hu 1-2 and Its Irradiated Bow-Shocks  
**Name of the conference:** IAU Symposium 283, Planetary Nebulae, an Eye to the Future  
**Type of participation:** 'Participatory - poster  
**City of event:** Puerto de la Cruz,  
**Date of event:** 25/07/2011  
**End date:** 29/07/2011  
**Organising entity:** International Astronomical Union **Type of entity:** Associations and Groups  
Miranda; L.F.; Blanco; M.; Guerrero; M. A.; Riera; A.



- 35** **Title of the work:** Observations of Central Stars and Their Winds from X-ray Observations  
**Name of the conference:** IAU Symposium 283, Planetary Nebulae, an Eye to the Future  
**City of event:** Puerto de la Cruz,  
**Date of event:** 25/07/2011  
**End date:** 29/07/2011  
**Organising entity:** International Astronomical Union **Type of entity:** Associations and Groups  
Guerrero, M.A.
- 36** **Title of the work:** VISIR-VLT Images of the Water-Maser Emitting Planetary Nebula K 3-35  
**Name of the conference:** IAU Symposium 283, Planetary Nebulae, an Eye to the Future  
**Type of participation:** 'Participatory - poster  
**City of event:** Puerto de la Cruz,  
**Date of event:** 25/07/2011  
**End date:** 29/07/2011  
**Organising entity:** International Astronomical Union **Type of entity:** Associations and Groups  
Blanco; M.; Guerrero; M. A.; Lagadec; E.; Miranda; L.F.; Suárez; O.
- 37** **Title of the work:** Weak and Extended Molecular Hydrogen in NGC 6369  
**Name of the conference:** IAU Symposium 283, Planetary Nebulae, an Eye to the Future  
**Type of participation:** 'Participatory - poster  
**City of event:** Puerto de la Cruz,  
**Date of event:** 25/07/2011  
**End date:** 29/07/2011  
**Organising entity:** International Astronomical Union **Type of entity:** Associations and Groups  
Ramos-Larios; G.; Guerrero; M. A.; Vázquez; R.; Phillips; J.P.
- 38** **Title of the work:** Hard X-ray Emission from Central Stars of Planetary Nebulae  
**Name of the conference:** X-ray Universe 2011  
**City of event:** Berlín, Alemania,  
**Date of event:** 27/06/2011  
**End date:** 30/06/2011  
**Organising entity:** European Space Agency **Type of entity:** State agency  
Guerrero, M.A.
- 39** **Title of the work:** A FUSE View of the Stellar Winds of the Central Stars of Planetary Nebulae  
**Name of the conference:** Legacies of the Macquarie/AOO/Strasbourg H-alpha Planetary Nebula Project  
**Type of participation:** 'Participatory - poster  
**City of event:** Sydney, Australia,  
**Date of event:** 16/02/2009  
**End date:** 18/02/2009  
Ramos-Larios, G.; Guerrero, M.A.; Massa, D.2002.
- 40** **Title of the work:** Searching heavily obscured post-AGB stars and Planetary Nebulae  
**Name of the conference:** Legacies of the Macquarie/AOO/Strasbourg H-alpha Planetary Nebula Project  
**City of event:** Sydney, Australia,  
**Date of event:** 16/02/2009  
**End date:** 18/02/2009  
Guerrero, M.A.2002.



- 41** **Title of the work:** XMM-Newton Survey for X-ray Emission from Galactic Planetary Nebulae  
**Name of the conference:** X-ray Universe 2008  
**Type of participation:** 'Participatory - poster  
**City of event:** Granada, España,  
**Date of event:** 26/05/2008  
**End date:** 30/05/2008  
**Organising entity:** European Space Agency      **Type of entity:** State agency  
Ruiz; N.; Guerrero; M. A.; Chu; Y.-H.; Gruendl; R.A.2005.
- 42** **Title of the work:** Emisión en Rayos X de Nebulosas Planetarias  
**Name of the conference:** XI Reunión Regional de Occidente en Astronomía  
**City of event:** Chapala,  
**Date of event:** 28/11/2007  
**End date:** 30/11/2007  
Guerrero, M.A."En prensa". 2011.
- 43** **Title of the work:** A New Diagnostic for Fast Outflows in Planetary Nebulae  
**Name of the conference:** Asymmetrical Planetary Nebulae IV  
**Type of participation:** 'Participatory - poster  
**City of event:** La Palma, Spain,  
**Date of event:** 18/06/2007  
**End date:** 22/06/2007  
Medina; J. J.; Guerrero; M. A.; Luridiana; V.; Miranda; L. F.; Riera; A.; and Velázquez; P."En prensa". 2006.
- 44** **Title of the work:** Identification of New Planetary Nebulae  
**Name of the conference:** Asymmetrical Planetary Nebulae IV  
**Type of participation:** 'Participatory - poster  
**City of event:** La Palma, Spain,  
**Date of event:** 18/06/2007  
**End date:** 22/06/2007  
Miranda; L. F.; Pereira; C. B.; and Guerrero; M. A."En prensa". 2006.
- 45** **Title of the work:** Morphological and Spectroscopic Análisis of the Planetary Nebula K 3-35  
**Name of the conference:** Asymmetrical Planetary Nebulae IV  
**Type of participation:** 'Participatory - poster  
**City of event:** La Palma, Spain,  
**Date of event:** 18/06/2007  
**End date:** 22/06/2007  
Miranda; L. F.; Luridiana; V.; Guerrero; M. A.; Márquez; I.; Masegosa; J.; and Pérez; E."En prensa". 2006.
- 46** **Title of the work:** The H2 Amazing Life of the Planetary Nebula NGC 6881  
**Name of the conference:** Asymmetrical Planetary Nebulae IV  
**Type of participation:** 'Participatory - poster  
**City of event:** La Palma, Spain,  
**Date of event:** 18/06/2007  
**End date:** 22/06/2007  
Ramos-Larios; G.; Guerrero; M. A.; and Miranda; L. F."En prensa". 2006.
- 47** **Title of the work:** X-ray Emission from Planetary Nebulae with Fast Collimated Outflows  
**Name of the conference:** Asymmetrical Planetary Nebulae IV  
**City of event:** La Palma, Spain,





**Date of event:** 18/06/2007

**End date:** 22/06/2007

Guerrero; M. A.; Ruiz; N.; Chu; Y.-H.; and Gruendl; R. A."En prensa". 2006.

- 48** **Title of the work:** X-ray Observations of Planetary Nebulae and Wolf-Rayet Bubbles  
**Name of the conference:** XEUS – Visions of the Extreme Universe  
**Type of participation:** 'Participatory - poster  
**City of event:** Imperial Collage,  
**Date of event:** 02/04/2007  
**End date:** 04/04/2007  
Guerrero, M.A."En prensa". 02/04/2004.
- 49** **Title of the work:** XMM-Newton RGS detection of emission lines of O VII and N VI in the X-ray spectrum of the Cat's Eye Nebula  
**Name of the conference:** VII reunión científica de la Sociedad Española de Astronomía  
**Type of participation:** 'Participatory - poster  
**City of event:** Barcelona,  
**Date of event:** 12/09/2006  
**End date:** 15/09/2006  
**Organising entity:** Sociedad Española de Astronomía **Type of entity:** Associations and Groups  
Guerrero; M. A.; Chu; Y.-H.; Gruendl; R. A."En prensa". 2009.
- 50** **Title of the work:** Imaging and Long-Slit Spectroscopy of Compact Planetary Nebulae with Collimated Outflows  
**Name of the conference:** IAU Symposium 234, Planetary Nebular in our Galaxy and Beyond  
**Type of participation:** 'Participatory - poster  
**City of event:** Waikoloa,  
**Date of event:** 03/04/2006  
**End date:** 07/04/2006  
**Organising entity:** International Astronomical Union **Type of entity:** Associations and Groups  
Miranda; L. F.; Guerrero; M. A."Proceedings of the Internacional Astronomical Union, Vol. 2, Symp. 234 (Cambridge University Press, Ed. M.J. Barlow & R.H. Méndez)", pp. 461 - 462. 03/07/2004.
- 51** **Title of the work:** Kinematical análisis of bipolar planetary nebulae  
**Name of the conference:** IAU Symposium 234, Planetary Nebular in our Galaxy and Beyond  
**Type of participation:** 'Participatory - poster  
**City of event:** Waikoloa,  
**Date of event:** 03/04/2006  
**End date:** 07/04/2006  
**Organising entity:** International Astronomical Union **Type of entity:** Associations and Groups  
Dobrincic; M.; Villaver; E.; Guerrero; M. A.; Manchado; A."Proceedings of the Internacional Astronomical Union, Vol. 2, Symp. 234 (Cambridge University Press, Ed. M.J. Barlow & R.H. Méndez)", pp. 387 - 388. 03/07/2004.
- 52** **Title of the work:** Planetary nebulae and their central Stars in the X-ray and EUV regions  
**Name of the conference:** IAU Symposium 234, Planetary Nebular in our Galaxy and Beyond  
**City of event:** Waikoloa,  
**Date of event:** 03/04/2006  
**End date:** 07/04/2006  
**Organising entity:** International Astronomical Union **Type of entity:** Associations and Groups



Guerrero; M. A. "Proceedings of the Internacional Astronomical Union, Vol. 2, Symp. 234 (Cambridge University Press, Ed. M.J. Barlow & R.H. Méndez)," pp. 153 - 160. 03/07/2004.

**53 Title of the work:** The X-ray Planetary Nebulae database

**Name of the conference:** IAU Symposium 234, Planetary Nebular in our Galaxy and Beyond

**Type of participation:** 'Participatory - poster

**City of event:** Waikoloa,

**Date of event:** 03/04/2006

**End date:** 07/04/2006

**Organising entity:** International Astronomical Union **Type of entity:** Associations and Groups

Guerrero; M. A.; Chu; Y.-H.; Gruendl; R. A. "Proceedings of the Internacional Astronomical Union, Vol. 2, Symp. 234 (Cambridge University Press, Ed. M.J. Barlow & R.H. Méndez)," pp. 411 - 412. 03/07/2004.

**54 Title of the work:** The physical structure of NGC 3242

**Name of the conference:** IAU Symposium 234, Planetary Nebular in our Galaxy and Beyond

**Type of participation:** 'Participatory - poster

**City of event:** Waikoloa,

**Date of event:** 03/04/2006

**End date:** 07/04/2006

**Organising entity:** International Astronomical Union **Type of entity:** Associations and Groups

Ruiz; N.; Guerrero; M. A.; Chu; Y.-H.; Gruendl; R. A.; Kwitter; K. B.; Meixner; M. "Proceedings of the Internacional Astronomical Union, Vol. 2, Symp. 234 (Cambridge University Press, Ed. M.J. Barlow & R.H. Méndez)," pp. 497 - 498. 03/07/2004.

**55 Title of the work:** Hot gas in wind-blown bubbles

**Name of the conference:** The X-ray Universe 2005

**Type of participation:** 'Participatory - poster

**City of event:** San Lorenzo de el Escorial,

**Date of event:** 26/09/2005

**End date:** 30/09/2005

**Organising entity:** European Space Agency

**Type of entity:** State agency

**City organizing entity:** Granada,

Chu; Y.-H.; Gruendl; R. A.; Guerrero; M. A. "ESA SP-604, 2006, vol. 1," pp. 363 - 364. 2009.

**56 Title of the work:** New high resolution X-ray studies of Magellanic Cloud supernova remnants

**Name of the conference:** The X-ray Universe 2005

**Type of participation:** 'Participatory - poster

**City of event:** San Lorenzo de El Escorial,

**Date of event:** 26/09/2005

**End date:** 30/09/2005

**Organising entity:** European Space Agency

**Type of entity:** State agency

Williams; R. N. M.; Chu; Y.-H.; Chen; C.-H.; Gruendl; R. A.; Dickel; J. R.; Seward; F. D.; Guerrero; M. A.; Shelton; R. "ESA SP-604, 2006, vol. 1," pp. 375 - 376. 2009.

**57 Title of the work:** The X-ray planetary nebulae database

**Name of the conference:** The X-ray Universe 2005

**Type of participation:** 'Participatory - poster

**City of event:** San Lorenzo de el Escorial,

**Date of event:** 26/09/2005

**End date:** 30/09/2005

**Organising entity:** European Space Agency

**Type of entity:** State agency



**City organizing entity:** Granada,

Guerrero; M. A.; Chu; Y.-H.; Gruendl; R. A."ESA SP-604, 2006, vol. 1,". pp. 85 - 86. 2009.

**58 Title of the work:** X-Ray Survey of Wolf-Rayet Stars in the Magellanic Clouds

**Name of the conference:** 2005 JENAM Workshop on Massive Stars and High-Energy Emission from OB Associations"

**City of event:** Liège, Bélgica,

**Date of event:** 05/07/2005

**End date:** 06/07/2005

Guerrero; M. A. Chu; Y.-H."Proceedings of "Massive Stars and High-Energy Emission in OB Associations", Eds. G. Rauw, Y. Nazé, R. Blomme, and E. Gosset, 2005,". pp. 13 - 20. 05/06/2007.

**59 Title of the work:** X-Ray and UV Observations of Hot Gas in Planetary Nebulae

**Name of the conference:** Planetary Nebulae as Astronomical Tools

**City of event:** Gdansk, Polonia,

**Date of event:** 28/06/2005

**End date:** 02/07/2005

Guerrero; M. A.; Chu; Y.-H.; Gruendl; R. A."AIP Conference Proceedings, 2005, vol. 804,". pp. 157 - 160. 28/06/2005.

**60 Title of the work:** X-Ray Observations of Hot Gas in Planetary Nebulae

**Name of the conference:** Stellar End Products Workshop

**City of event:** Granada, España,

**Date of event:** 04/2005

Guerrero; M. A.; Chu; Y.-H.; Gruendl; R. A."Memorie della Società Astronomica Italiana, 2005, vol. 76,". pp. 449 - 456. 04/2005.

**61 Title of the work:** S 308: A Textbook Example of Wolf-Rayet Bubbles

**Name of the conference:** 205 Reunión de la American Astronomical Society (AAS)

**Type of participation:** 'Participatory - poster

**City of event:** San Diego,

**Date of event:** 01/2005

Chu; Y.-H.; Gruendl; R. A.; Guerrero; M. A.; Garcia-Segura; G.; Snowden; S. L."2004, American Astronomical Society Meeting 205, 138.01". 01/2005.

**62 Title of the work:** The Supernova Remnant and Superbubble Components of the Complex

**Name of the conference:** 205 Reunión de la American Astronomical Society (AAS)

**Type of participation:** 'Participatory - poster

**City of event:** San Diego,

**Date of event:** 01/2005

Williams; R. N.; Chu; Y.-H.; Dickel; J. R.; Gruendl; R. A.; Dunne; B. C.; Guerrero; M. A.; Seward; F. D.; Hobbs; G."2004, American Astronomical Society Meeting 205, 70.05". 01/2005.

**63 Title of the work:** XMM-Newton Detection of Hot Gas in Two Evolved Elliptical Nebulae: the Eskimo Nebula and the Ghost of Jupiter

**Name of the conference:** 205 Reunión de la American Astronomical Society (AAS)

**Type of participation:** 'Participatory - poster

**City of event:** San Diego,

**Date of event:** 01/2005

Guerrero; M. A.; Chu; Y.-H.; Gruendl; R. A.; Meixner; M."2004, American Astronomical Society Meeting 205, 138.04". 01/2005.



- 64** **Title of the work:** XMM-Newton Observations of Hot Gas in Two Bipolar Planetary Nebulae: NGC 2346 and NGC 7026  
**Name of the conference:** 205 Reunión de la American Astronomical Society (AAS)  
**Type of participation:** 'Participatory - poster  
**City of event:** San Diego,  
**Date of event:** 01/2005  
Gruendl; R. A.; Chu; Y.-H.; Guerrero; M. A."2004, American Astronomical Society Meeting 205, 138.05". 01/2005.
- 65** **Title of the work:** X-Ray Nature of the LINER Nuclear Sources  
**Name of the conference:** Multiband Approach to AGN  
**Type of participation:** 'Participatory - poster  
**City of event:** Bonn, Germany,  
**Date of event:** 10/2004  
González-Martín; O.; Masegosa; J.; Márquez; I.; Dultzin-Hacyan; D.; Guerrero; M. A."Memorie della Società Astronomica Italiana, 2005, vol. 76,". pp. 91 - 92. 10/2004.
- 66** **Title of the work:** X-Ray Emission from Planetary Nebulae  
**Name of the conference:** The Many Scales in the Universe – JENAM 2004  
**City of event:** Granada, España,  
**Date of event:** 09/2004  
Guerrero; M. A.; Chu; Y.-H.; Gruendl; R. A."Astrophysics and Space Science Library, Kluwer Academic". s, en prensa, 09/2004.
- 67** **Title of the work:** O VI in planetary nebulae  
**Name of the conference:** Astrophysics in the Far Ultraviolet: Five Years of Discovery with FUSE  
**City of event:** Victoria,  
**Date of event:** 02/08/2004  
**End date:** 06/08/2004  
Gruendl; R. A.; Chu; Y.-H.; Guerrero; M. A."ASP Conference Series, 2006, vol. 348, p. 316". 02/06/2008.
- 68** **Title of the work:** Hot Gas in Planetary Nebulae  
**Name of the conference:** III Asymmetrical Planetary Nebulae  
**City of event:** Seattle,  
**Date of event:** 08/2003  
Chu; Y.-H.; Gruendl; R. A.; Guerrero; M. A."Publications of the Astronomical Society of the Pacific, Conference Series, Vol. 313,". pp. 254 - 258. 08/2003.
- 69** **Title of the work:** Imaging and Spectroscopy of NGC 6778  
**Name of the conference:** III Asymmetrical Planetary Nebulae  
**Type of participation:** 'Participatory - poster  
**City of event:** Seattle,  
**Date of event:** 08/2003  
Maestro; V.; Guerrero; M. A.; Miranda; L. F."Publications of the Astronomical Society of the Pacific, Conference Series, Vol. 127-130". 08/2003.
- 70** **Title of the work:** Multiple Point-Symmetric Ejections in IC 4634  
**Name of the conference:** III Asymmetrical Planetary Nebulae  
**Type of participation:** 'Participatory - poster  
**City of event:** Seattle,  
**Date of event:** 08/2003



Guerrero; M. A.; Miranda; L. F.; Chu; Y.-H. "Publications of the Astronomical Society of the Pacific, Conference Series, Vol. 313,". pp. 30 - 31. 08/2003.

- 71** **Title of the work:** X-Ray Observations of Planetary Nebulae  
**Name of the conference:** III Asymmetrical Planetary Nebulae  
**City of event:** Seattle,  
**Date of event:** 08/2003

Guerrero; M. A.; Chu; Y.-H.; Gruendl; R. A. "Publications of the Astronomical Society of the Pacific, Conference Series, Vol. 313,". pp. 259 - 264. 08/2003.

- 72** **Title of the work:** Bubbles and Superbubbles  
**Name of the conference:** How does the Galaxy Work? A Galactic Tertulia with Don Cox and Don Reynolds  
**City of event:** Granada, España,  
**Date of event:** 06/2003

Chu; Y.-H.; Guerrero; M. A.; Gruendl; R. A. "Astrophysics and Space Science Library, Kluwer Academic". pp. 165 - 172. s, Vol. 315,, 06/2003.

- 73** **Title of the work:** Chandra Archive of Nearby Galaxies. I. Normal Galaxies  
**Name of the conference:** 202 Reunión de la American Astronomical Society (AAS)  
**Type of participation:** 'Participatory - poster  
**City of event:** Nashville,  
**Date of event:** 06/2003

Chen; C.-H. R.; Wang; S.; Guerrero; M. A.; Chu; Y.-H. "2003, American Astronomical Society Meeting 202, 40.11". 06/2003.

- 74** **Title of the work:** Chandra Archive of Nearby Galaxies. I. Normal Galaxies  
**Name of the conference:** How does the Galaxy Work? A Galactic Tertulia with Don Cox and Don Reynolds  
**Type of participation:** 'Participatory - poster  
**City of event:** Granada, España,  
**Date of event:** 06/2003

Chen; C.-H. R.; Wang; S.; Guerrero; M. A.; Chu; Y.-H. "Astrophysics and Space Science Library, Kluwer Academic". pp. 186. s, Vol. 315,, 06/2003.

- 75** **Title of the work:** Chandra Archive of Nearby Galaxies. II. Galaxies with Nuclear Activity  
**Name of the conference:** 202 Reunión de la American Astronomical Society (AAS)  
**Type of participation:** 'Participatory - poster  
**City of event:** Nashville,  
**Date of event:** 06/2003

Wang; S.; Chen; C.-H. R.; Guerrero; M. A.; Chu; Y.-H. "2003, American Astronomical Society Meeting 202, 40.12". 06/2003.

- 76** **Title of the work:** Chandra Archive of Nearby Galaxies. II. Galaxies with Nuclear Activity  
**Name of the conference:** How does the Galaxy Work? A Galactic Tertulia with Don Cox and Don Reynolds  
**Type of participation:** 'Participatory - poster  
**City of event:** Granada, España,  
**Date of event:** 06/2003

Wang; S.; Chen; C.-H. R.; Guerrero; M. A.; Chu; Y.-H. "Astrophysics and Space Science Library, Kluwer Academic". pp. 189. s, Vol. 315,, 06/2003.



- 77** **Title of the work:** Hot Gas in Wolf-Rayet Bubbles. I. XMM-Newton Observations of S 308  
**Name of the conference:** 202 Reunión de la American Astronomical Society (AAS)  
**Type of participation:** 'Participatory - poster  
**City of event:** Nashville,  
**Date of event:** 06/2003  
Chu; Y.-H.; Guerrero; M. A.; Gruendl; R. A.; Garcia-Segura; G.; Wendker; H."2003, American Astronomical Society Meeting 202, 32.15". 06/2003.
- 78** **Title of the work:** Hot Gas in Wolf-Rayet Bubbles. II. Chandra Observations of NGC 6888  
**Name of the conference:** 202 Reunión de la American Astronomical Society (AAS)  
**Type of participation:** 'Participatory - poster  
**City of event:** Nashville,  
**Date of event:** 06/2003  
Gruendl; R. A.; Guerrero; M. A.; Chu; Y.-H."2003, American Astronomical Society Meeting 202, 32.16". 06/2003.
- 79** **Title of the work:** A Chandra Study of the Merger in Abell 2319  
**Name of the conference:** 203 Reunión de la American Astronomical Society (AAS)  
**Type of participation:** 'Participatory - poster  
**City of event:** Atlanta,  
**Date of event:** 2003  
O'Hara; T. B.; Mohr; J. J.; Guerrero; M. A."2003, American Astronomical Society Meeting 203, 47.07". 2003.
- 80** **Title of the work:** GLMP 621: a Binary Planetary Nebula  
**Name of the conference:** The Eight Texas-Mexico Conference on Astrophysics  
**City of event:** México D. F., México,  
**Date of event:** 2003  
Riera; A.; García-Lario; P.; Manchado; A.; Suárez; O.; García-Hernández; A.; Guerrero; M. A."2003, Revista Mexicana de Astronomía y Astrofísica (Serie de Conferencias), Vol. 18,". pp. 97 - 99. 2003.
- 81** **Title of the work:** Hard X-ray Emission from White Dwarfs  
**Name of the conference:** 201 Reunión de la American Astronomical Society (AAS)  
**Type of participation:** 'Participatory - poster  
**City of event:** Seattle,  
**Date of event:** 2003  
Chu; Y.-H.; Dodd; C. J.; Gillani; K.; Gruendl; R. A.; Guerrero; M. A.; Maxham; A. L.; O'Dwyer; I. J."2002, American Astronomical Society Meeting 201, 119.10". 2003. Available on-line at: <bink, R. F.>.
- 82** **Title of the work:** Mz 3: a Polypolar Nebula in the Making  
**Name of the conference:** 201 Reunión de la American Astronomical Society (AAS)  
**Type of participation:** 'Participatory - poster  
**City of event:** Seattle,  
**Date of event:** 2003  
Guerrero; M. A.; Miranda; L. F.; Chu; Y.-H."2002, American Astronomical Society Meeting 201, 89.09". 2003.
- 83** **Title of the work:** Precessing Collimated Outflows in Planetary Nebulae  
**Name of the conference:** 201 Reunión de la American Astronomical Society (AAS)  
**City of event:** Seattle,  
**Date of event:** 2003



Guerrero; M. A.; Chu; Y.-H.; Miranda; L. F."2002, American Astronomical Society Meeting 201, 22.03". 2003.

- 84** **Title of the work:** A Test of the Standard Structure Evolution Model using Archival Chandra Data  
**Name of the conference:** Reunión de la American Physical Society (APS)  
**City of event:** Albuquerque,  
**Date of event:** 2002  
Mohr; J.; Guerrero; M. A.2002.
- 85** **Title of the work:** An Inside-Out View of Bubbles  
**Name of the conference:** Winds, Bubbles, and Explosions: a conference to honor John Dyson  
**City of event:** Pátzcuaro,  
**Date of event:** 2002  
Chu; Y.-H.; Gruendl; R. A.; Guerrero; M. A."2003, Revista Mexicana de Astronomía y Astrofísica, (Serie de Conferencias), Vol. 15,". pp. 62 - 67. 2002.
- 86** **Title of the work:** De-Centered Central Stars of Planetary Nebulae  
**Name of the conference:** 199 Reunión de la American Astronomical Society (AAS)  
**Type of participation:** 'Participatory - poster  
**City of event:** Washington,  
**Date of event:** 2002  
McLean; A.; Guerrero; M. A.; Gruendl; R. A.; Chu; Y.-H."2001, American Astronomical Society Meeting 199, 136.02". 2002.
- 87** **Title of the work:** Observations of the Jet-Like Structure Associated with the Binary Planetary Nebula GLMP 621  
**Name of the conference:** Winds, Bubbles, and Explosions: a conference to honor John Dyson  
**Type of participation:** 'Participatory - poster  
**City of event:** Pátzcuaro,  
**Date of event:** 2002  
Riera; A.; García-Lario; P.; Manchado; A.; Suárez; O.; García-Hernández; A.; Guerrero; M. A."2003, Revista Mexicana de Astronomía y Astrofísica, (Serie de Conferencias) Vol. 15,". pp. 82 - 82. 2002.
- 88** **Title of the work:** De-Centered Central Stars of Planetary Nebulae  
**Name of the conference:** IAU Symposium No. 209, Planetary Nebular: Their Evolution and Role in the Universe  
**Type of participation:** 'Participatory - poster  
**City of event:** Canberra, Australia,  
**Date of event:** 2001  
McLean; A.; Guerrero; M. A.; Gruendl; R. A.; Chu; Y.-H."2003, The Astronomical Society of the Pacific Conference Series (ASP Conf. Ser.), Vo. 209,". pp. 541 - 542. 2001.
- 89** **Title of the work:** X-ray and UV Views of Hot Gas in Planetary Nebulae  
**Name of the conference:** IAU Symposium No. 209, Planetary Nebulae: Their Evolution and Role in the Universe  
**City of event:** Canberra, Australia,  
**Date of event:** 2001  
Chu; Y.-H.; Guerrero; M. A.; Gruendl; R. A."The Astronomical Society of the Pacific Conference Series (ASP Conf. Ser.), Vol. 209,". pp. 415 - 423. 2001.



- 90** **Title of the work:** XMM-Newton Detection of Extended X-ray Emisión from the Saturn Nebula  
**Name of the conference:** IAU Symposium No. 209, Planetary Nebulae: Their Evolution and Role in the Universe  
**Type of participation:** 'Participatory - poster  
**City of event:** Canberra, Australia,  
**Date of event:** 2001  
Guerrero; M. A.; Chu; Y.-H.; Gruendl; R. A."2003, The Astronomical Society of the Pacific Conference Series (ASP Conf. Ser.), Vol. 209,". pp. 427 - 428. 2001.
- 91** **Title of the work:** Chandra Detects Enigmatic Point X-ray Sources in the Cat's Eye and Helix Nebulae  
**Name of the conference:** 197 Reunión de la American Astronomical Society (AAS)  
**Type of participation:** 'Participatory - poster  
**City of event:** San Diego,  
**Date of event:** 2000  
Guerrero; M. A.; Chu; Y.-H.; Gruendl; R. A.; Kaler; J. B.; Williams; R. M."2000, American Astronomical Society Meeting 197, 06.02". 2000.
- 92** **Title of the work:** Chandra Reveals the X-ray Glint in the Cat's Eye  
**Name of the conference:** 197 Reunión de la American Astronomical Society (AAS)  
**Type of participation:** 'Participatory - poster  
**City of event:** San Diego,  
**Date of event:** 2000  
Chu; Y.-H.; Guerrero; M. A.; Gruendl; R. A.; Kaler; J. B.; Williams; R. M."2000, American Astronomical Society Meeting 197, 06.01". 2000.
- 93** **Title of the work:** How Fast Are Collimated Outflows in Planetary Nebular?  
**Name of the conference:** Ionizad Gaseous Nebulae  
**Type of participation:** 'Participatory - poster  
**City of event:** México D. F., México,  
**Date of event:** 2000  
Guerrero; M. A.; Miranda; L. F.; Chu; Y.-H."2002, Revista Mexicana de Astronomía y Astrofísica Conference Series (RMexAA Conf. Ser.), Vol. 12, p. 156". 2000.
- 94** **Title of the work:** ROSAT X-ray Observations of Planetary Nebulae  
**Name of the conference:** 194 Reunión de la American Astronomical Society (AAS)  
**Type of participation:** 'Participatory - poster  
**City of event:** Chicago,  
**Date of event:** 1999  
Guerrero; M. A.; Chu; Y.-H.; Gruendl; R. A."1999, Bulletin of the American Astronomical Society (BAAS), Vol. 31, p. 974". 1999.
- 95** **Title of the work:** The Kinematics of Point-Symmetric Planetary Nebulae: Observational Evidence of Precessing Outflows  
**Name of the conference:** Asymmetrical Planetary Nebulae II: From Origins to Microstructures  
**City of event:** Cambridge,  
**Date of event:** 1999  
Guerrero; M. A."2000, The Astronomical Society of the Pacific Conference Series (ASP Conf. Ser.), Vol. 199, p. 371-378". 1999.
- 96** **Title of the work:** The Morphological and Structural Classification of Planetary Nebulae  
**Name of the conference:** Asymmetrical Planetary Nebulae II: From Origins to Microstructures  
**City of event:** Cambridge,





**Date of event:** 1999

Manchado; A.; Villaver; E.; Stanghellini; L.; Guerrero; M. A."2000, The Astronomical Society of the Pacific Conference Series (ASP Conf. Ser.), Vol. 199, p. 17-23". 1999.

**97 Title of the work:** X-rays from Planetary Nebulae

**Name of the conference:** Asymmetrical Planetary Nebulae II: From Origins to Microstructures

**City of event:** Cambridge,

**Date of event:** 1999

Chu; Y.-H.; Guerrero; M. A.; Gruendl; R. A."2000, The Astronomical Society of the Pacific Conference Series (ASP Conf. Ser.), Vol. 199, p. 419-422". 1999.

**98 Title of the work:** Hydrodynamical Simulations of Multiple Shell Planetary Nebulae

**Name of the conference:** IAU Symposium No. 191, Asymptotic Giant Branch Stars

**Type of participation:** 'Participatory - poster

**City of event:** Montpellier, France,

**Date of event:** 1998

Villaver; E.; Manchado; A.; García-Segura; G.; Guerrero; M. A."Proceedings of the IAU Symposium No. 191, p. 534". 1998.

**99 Title of the work:** A Rotating Jet in the Quadrupolar Planetary Nebula NGC 6881

**Name of the conference:** IAU Symposium No. 180, Planetary Nebulae

**Type of participation:** 'Participatory - poster

**City of event:** Groningen, The Netherlands,

**Date of event:** 1997

Guerrero; M. A.; Manchado; A."1997, Proceedings of the IAU Symposium No. 180, 232-233". 1997.

**100 Title of the work:** Chemical Abundances Variations and Kinematical Ages of Multiple Shell Planetary Nebulae and Their Haloes

**Name of the conference:** IAU Symposium No. 180, Planetary Nebulae

**Type of participation:** 'Participatory - poster

**City of event:** Groningen, The Netherlands,

**Date of event:** 1997

Guerrero; M. A.; Manchado; A."1997, Proceedings of the IAU Symposium No. 180, 234". 1997.

**101 Title of the work:** Extinction over the Canarian Observatories: the Limited Influence of Saharan Dust

**Name of the conference:** Site Properties of the Canarian Observatories Workshop

**City of event:** La Palma, España,

**Date of event:** 1997

Guerrero; M. A.; García-López; R.; Corradi; R. L. M.; Jiménez; A.; Fuensalida; J. J.; Rodríguez-Espinosa; J. M.; Alonso; A.; Centurión; M.; Prada; F."1998, New Astronomy Reviews (NewAR), Vol. 42, p. 529-532". 1997.

**102 Title of the work:** Multiple Collimated Outflows in the Planetary Nebula IC 4593?

**Name of the conference:** IAU Symposium No. 180, Planetary Nebulae

**Type of participation:** 'Participatory - poster

**City of event:** Groningen, The Netherlands,

**Date of event:** 1997

Corradi; R. L. M.; Guerrero; M. A.; Manchado; A.; Mampaso; A."1997, Proceedings of the IAU Symposium No. 180, 216". 1997.



- 103** **Title of the work:** The IAC Morphological Catalog of Northern Galactic Planetary Nebulae  
**Name of the conference:** IAU Symposium 180, Planetary Nebulae  
**City of event:** Groningen, The Netherlands,  
**Date of event:** 1997  
Manchado; A.; Guerrero; M. A.; Stanghellini; L.; Serra-Ricart; M."1997, Proceedings of the IAU Symposium No. 180, 24-25". 1997.
- 104** **Title of the work:** A Complete Morphological Catalog of Northern Galactic Planetary Nebulae  
**Name of the conference:** 189 Reunión de la American Astronomical Society (AAS)  
**Type of participation:** 'Participatory - poster  
**City of event:** Toronto,  
**Date of event:** 1996  
Manchado; A.; Guerrero; M. A.; Stanghellini; L.; Serra-Ricart; M."1996, American Astronomical Society Meeting 189, 120.14". 1996.
- 105** **Title of the work:** A Complete Morphological Catalog of Northern Galactic Planetary Nebulae  
**Name of the conference:** Reunión de la Sociedad Española de Astronomía (SEA)  
**City of event:** San Sebastián, España,  
**Date of event:** 1996  
Manchado; A.; Guerrero; M. A.; Stanghellini; L.; Serra-Ricart; M.1996.
- 106** **Title of the work:** A Catalog of Northern Extended Planetary Nebulae  
**Name of the conference:** 186 Reunión de la American Astronomical Society (AAS)  
**Type of participation:** 'Participatory - poster  
**City of event:** Pittsburg,  
**Date of event:** 1995  
Manchado; A.; Guerrero; M. A.; Stanghellini; L.; Serra-Ricart; M."Bulletin of the American Astronomical Society (BAAS), Vol. 27, p. 865". 1995.
- 107** **Title of the work:** A Kinematic and Chemical Study of the Bipolar Planetary Nebula K 4-55  
**Name of the conference:** Asymmetrical Planetary Nebulae Conference  
**City of event:** Oranim,  
**Date of event:** 1994  
Guerrero; M. A.; Manchado; A."1995, Annals of the Israel Physical Society, Vol. 11, p. 204-208". 1994.
- 108** **Title of the work:** A Halo of Red Giant Around the Owl Nebula  
**Name of the conference:** 181 Reunión de la American Astronomical Society (AAS)  
**Type of participation:** 'Participatory - poster  
**City of event:** Phoenix,  
**Date of event:** 1993  
Manchado; A.; Guerrero; M. A.; Kwitter; K. B.; Chu; Y.-H."1992, Bulletin of the American Astronomical Society (BAAS), Vol. 24, p. 1227". 1993.
- 109** **Title of the work:** Things Go Bump in the Halo of the Helix  
**Name of the conference:** 183 Reunión de la American Astronomical Society (AAS)  
**Type of participation:** 'Participatory - poster  
**City of event:** Washington,  
**Date of event:** 1993  
Manchado; A.; Chu; Y.-H.; Guerrero; M. A.; Kwitter; K. B."1993, Bulletin of the American Astronomical Society (BAAS), Vol. 25, p. 1249". 1993.



## Other dissemination activities

- 1** **Title of the work:** Buscando Planetas Terrestres en la Zona Habitable desde los Cielos de España  
**Name of the event:** International Colloquium of Astronomy Universe and Society (CIAUS). FIL 2016  
**Type of event:** Conferences given  
**Corresponding author:** Yes  
**City of event:** Guadalajara, Mexico  
**Date of event:** 03/12/2016  
**Organising entity:** XXX Feria Internacional del Libro de Guadalajara  
Guerrero, M.A..
- 2** **Title of the work:** El Destino Final del Sol y del Sistema Solar. Una Visión Astrofísica.  
**Name of the event:** Charlas de Ciencia  
**Type of event:** Conferences given  
**Corresponding author:** Yes  
**City of event:** Guadalajara, Mexico  
**Date of event:** 27/10/2016  
**Organising entity:** Instituto de Ciencias A.C.
- 3** **Name of the event:** Noche Europea de los Investigadores 2016 en Granada  
**Type of event:** Fairs and exhibitions  
**City of event:** Granada, 29/09/2016, Spain  
**Date of event:** 29/09/2016  
**Organising entity:** Comisión Europea (acción Marie Skłodowska-Curie del programa Horizonte 2020)
- 4** **Title of the work:** PIISA 2015-2016  
**Name of the event:** Proyecto de Iniciación a la Investigación e Innovación en Secundaria en Andalucía  
**Type of event:** Fairs and exhibitions  
**Corresponding author:** No  
**City of event:** Granada, 05/2016, Spain  
**Date of event:** 05/2016  
**Organising entity:** CSIC, UGR, Delegación de Educación en Granada  
"PIISA 2015-2016".
- 5** **Name of the event:** Noche Europea de los Investigadores 2015 en Granada  
**Type of event:** Fairs and exhibitions  
**City of event:** Granada, 25/09/2015, Spain  
**Date of event:** 25/09/2015  
**Organising entity:** Comisión Europea (acción Marie Skłodowska-Curie del programa Horizonte 2020)
- 6** **Title of the work:** PIISA 2014-2015  
**Name of the event:** Proyecto de Iniciación a la Investigación e Innovación en Secundaria en Andalucía  
**Type of event:** Fairs and exhibitions  
**Corresponding author:** No  
**City of event:** Granada, 05/2015, Spain  
**Date of event:** 05/2015  
**Organising entity:** CSIC, UGR, Delegación de Educación en Granada  
"PIISA 2014-2015".



- 7** **Title of the work:** The X-ray Lightening Inside the Thor's Helmet  
**Name of the event:** ESA XMM-Newton Image Gallery  
**Type of event:** Nota prensa web  
**Corresponding author:** Yes  
**Date of event:** 06/11/2014  
**Organising entity:** ESA XMM-Newton  
Guerrero, M.A..
- 8** **Title of the work:** Fire burn and cauldron bubble  
**Name of the event:** ESA Space Science Image of the Week  
**Type of event:** Nota prensa web  
**Corresponding author:** Yes  
**Date of event:** 01/12/2012  
**Organising entity:** European Space Agency  
Guerrero, M.A..
- 9** **Title of the work:** Could Our Sun Become a "Zombie" Star?  
**Type of event:** Media interviews  
**Corresponding author:** Yes  
**Date of event:** 20/11/2012  
**Organising entity:** National Geographic  
Guerrero, M.A..
- 10** **Title of the work:** New Pictures: Planetary Nebulae Shine in X-Ray Vision  
**Type of event:** Media interviews  
**Corresponding author:** No  
**Date of event:** 20/11/2012  
**Organising entity:** National Geographic  
"New Pictures: Planetary Nebulae Shine in X-Ray Vision".
- 11** **Title of the work:** Abell 30: X-rays from a Reborn Planetary Nebula  
**Name of the event:** Chandra photo album  
**Type of event:** Nota prensa web  
**Corresponding author:** Yes  
**Date of event:** 15/11/2012  
**Organising entity:** NASA  
Guerrero, M.A..
- 12** **Title of the work:** Abell 30: la nebulosa planetaria que renació y volvió a brillar en rayos X  
**Name of the event:** IAA News  
**Type of event:** Nota prensa web  
**Corresponding author:** Yes  
**Date of event:** 15/11/2012  
**Organising entity:** Instituto de Astrofísica de Andalucía  
**Type of entity:** State agency  
**City organizing entity:** Granada, Andalusia, Spain  
Guerrero, M.A..
- 13** **Title of the work:** Born-again star foreshadows fate of Solar System  
**Type of event:** Nota prensa web  
**Corresponding author:** Yes



**Date of event:** 15/11/2012  
**Organising entity:** European Space Agency  
Guerrero, M.A..

**14 Title of the work:** A Planetary Nebula Gallery  
**Name of the event:** Chandra photo album  
**Type of event:** Nota prensa web  
**Corresponding author:** No  
**Date of event:** 10/10/2012  
**Organising entity:** NASA

**15 Title of the work:** S308, a Wolf-Rayet Bubble Imaged by XMM-Newton in its Full Glory  
**Name of the event:** XMM-Newton Image Gallery  
**Type of event:** Nota prensa web  
**Corresponding author:** No  
**Date of event:** 17/09/2012  
**Organising entity:** European Space Astronomy Centre  
Toala, J.A.; Guerrero, M.A..

**16 Title of the work:** Cuántas nebulosas planetarias hay en la Galaxia?  
**Name of the event:** IAA Noticias  
**Type of event:** Artículo divulgación  
**Corresponding author:** Yes  
**Date of event:** 03/10/2011  
**Organising entity:** Instituto de Astrofísica de Andalucía  
**Type of entity:** State agency  
**City organizing entity:** Granada, Andalusia, Spain  
Guerrero, M.A..

**17 Title of the work:** La Nebulosa del Ojo del Gato  
**Name of the event:** IAA Noticias  
**Type of event:** Artículo divulgación  
**Corresponding author:** Yes  
**Date of event:** 01/02/2011  
**Organising entity:** Instituto de Astrofísica de Andalucía  
**Type of entity:** State agency  
**City organizing entity:** Granada, Andalusia, Spain  
Guerrero, M.A..

**18 Title of the work:** El Moby Dick de Martin A. Guerrero  
**Name of the event:** IAA Noticias  
**Type of event:** Artículo divulgación  
**Corresponding author:** Yes  
**Date of event:** 01/01/2011  
**Organising entity:** Instituto de Astrofísica de Andalucía  
**Type of entity:** State agency  
**City organizing entity:** Granada, Andalusia, Spain  
Guerrero, M.A..



- 19** **Title of the work:** El Futuro del Sol y del Sistema Solar  
**Type of event:** Conferences given  
**Corresponding author:** Yes  
**City of event:** Sevilla, 28/11/2008, Spain  
**Date of event:** 28/11/2008  
**Organising entity:** Asociación Astronómica Albireo **Type of entity:** Associations and Groups  
**City organizing entity:** Sevilla, Andalusia, Spain  
 Guerrero, M.A..
- 20** **Title of the work:** El Final del Sol  
**Type of event:** Artículo en prensa  
**Corresponding author:** Yes  
**Date of event:** 20/11/2007  
**Organising entity:** Granada Hoy  
**City organizing entity:** Granada, Andalusia, Spain
- 21** **Title of the work:** El Futuro del Sol  
**Name of the event:** Semana Europea de la Ciencia 2007, Año de la Ciencia  
**Type of event:** Conferences given  
**Corresponding author:** Yes  
**City of event:** Granada, 19/11/2007, Spain  
**Date of event:** 19/11/2007  
**Organising entity:** Consejo Superior de Investigaciones Científicas **Type of entity:** State agency  
 Guerrero, M.A..

## R&D management and participation in scientific committees

### Scientific, technical and/or assessment committees

- 1** **Committee title:** European Southern Observatory (ESO) OPC 103  
**Geographical area:** European Union  
**City:** Munich, Germany  
**Affiliation entity:** European Southern Observatory **Type of entity:** Public Research Body (ESO)  
**City affiliation entity:** Garching, Germany  
**Start-End date:** 19/11/2018 - 21/11/2018
- 2** **Committee title:** Javalambre Open Time Telescope Assignment Committee  
**Primary (UNESCO code):** 210000 - Astronomy & Astrophysics  
**Affiliation entity:** Observatorio de Javalambre **Type of entity:** Public Research Body  
**City affiliation entity:** Teruel, Aragon, Spain  
**Start-End date:** 05/11/2018 - 06/11/2018
- 3** **Committee title:** European Southern Observatory (ESO) OPC 102  
**Geographical area:** European Union  
**City:** Munich, Germany  
**Affiliation entity:** European Southern Observatory **Type of entity:** Public Research Body (ESO)  
**City affiliation entity:** Garching, Germany



**Start-End date:** 21/05/2018 - 23/05/2018

- 4** **Committee title:** Javalambre Open Time Telescope Assignment Committee  
**Primary (UNESCO code):** 210000 - Astronomy & Astrophysics  
**Affiliation entity:** Observatorio de Javalambre **Type of entity:** Public Research Body  
**City affiliation entity:** Teruel, Aragon, Spain  
**Start-End date:** 07/05/2018 - 07/05/2018
- 5** **Committee title:** XMM-Newton AO17 Peer Review  
**Geographical area:** European Union  
**City:** Leicester, Leicestershire, Rutland and Northamptonshire, United Kingdom  
**Affiliation entity:** European Space Astronomy Centre  
**Start-End date:** 01/11/2017 - 03/11/2017
- 6** **Committee title:** European Southern Observatory (ESO) OPC 100  
**Geographical area:** European Union  
**City:** Bolonia, Toscana, Italy  
**Affiliation entity:** European Southern Observatory **Type of entity:** Public Research Body (ESO)  
**City affiliation entity:** Garching, Germany  
**Start-End date:** 15/05/2017 - 17/05/2017
- 7** **Committee title:** Reunion Plenaria CNA (Comisión Nacional de Astronomía)  
**Affiliation entity:** Comisión Nacional de Astronomía  
**City affiliation entity:** Madrid, Community of Madrid, Spain  
**Start-End date:** 06/04/2017 - 06/04/2017
- 8** **Committee title:** STScI Cycle 24 TAC  
**Primary (UNESCO code):** 210000 - Astronomy & Astrophysics  
**Affiliation entity:** NASA **Type of entity:** Public Research Body  
**City affiliation entity:** Baltimore, United States of America  
**Start-End date:** 05/06/2016 - 07/06/2016
- 9** **Committee title:** Reunion Plenaria CNA (Comisión Nacional de Astronomía)  
**Affiliation entity:** Comisión Nacional de Astronomía  
**City affiliation entity:** Madrid, Community of Madrid, Spain  
**Start-End date:** 20/10/2015 - 20/10/2015
- 10** **Committee title:** Comité de Asignación de Tiempo ORM 2015A  
**Primary (UNESCO code):** 210000 - Astronomy & Astrophysics  
**Affiliation entity:** Instituto de Astrofísica de Canarias **Type of entity:** Public Research Body  
**City affiliation entity:** La Laguna, Canary Islands, Spain  
**Start-End date:** 11/11/2014 - 13/11/2014
- 11** **Committee title:** Comité de Asignación de Tiempo ORM 2014B  
**Primary (UNESCO code):** 210000 - Astronomy & Astrophysics  
**Affiliation entity:** Instituto de Astrofísica de Canarias **Type of entity:** Public Research Body  
**City affiliation entity:** La Laguna, Canary Islands, Spain  
**Start-End date:** 19/05/2014 - 21/05/2014



- 12** **Committee title:** Comité de Asignación de Tiempo ORM 2014A  
**Primary (UNESCO code):** 210000 - Astronomy & Astrophysics  
**Affiliation entity:** Instituto de Astrofísica de Canarias **Type of entity:** Public Research Body  
**City affiliation entity:** La Laguna, Canary Islands, Spain  
**Start-End date:** 18/11/2013 - 21/11/2013
- 13** **Committee title:** Comité de Asignación de Tiempo ORM 2013B  
**Primary (UNESCO code):** 210000 - Astronomy & Astrophysics  
**Affiliation entity:** Instituto de Astrofísica de Canarias **Type of entity:** Public Research Body  
**City affiliation entity:** La Laguna, Canary Islands, Spain  
**Start-End date:** 20/05/2013 - 23/05/2013
- 14** **Committee title:** XMM-Newton AO12 Peer Review  
**Geographical area:** Non EU International  
**Affiliation entity:** European Space Astronomy Centre  
**Start-End date:** 13/11/2012 - 14/11/2012
- 15** **Committee title:** XMM-Newton AO6 Peer Review  
**Affiliation entity:** European Space Astronomy Centre  
**Start-End date:** 22/11/2006 - 23/11/2006
- 16** **Committee title:** XMM-Newton AO5 Peer Review  
**Geographical area:** Non EU International  
**Affiliation entity:** European Space Astronomy Centre  
**Start-End date:** 07/12/2005 - 08/12/2005
- 17** **Committee title:** Comité de la Tesis: Determinación de Distancias a Nebulosas Planetarias” Candidato a Doctor: Silvana Guadalupe Navarro Jiménez Director(es) de Tesis: Dr. Antonio Mampaso y Dr. Romano Luigi Maria Corradi Universidad/Instituto: Universidad de La Laguna / Instituto de Astrofísica de Andalucía Participación en el Tribunal: 3er Vocal  
**Affiliation entity:** Instituto de Astrofísica de Canarias **Type of entity:** Public Research Body  
**City affiliation entity:** La Laguna, Canary Islands, Spain  
**Start-End date:** 26/07/2005 - 26/07/2005
- 18** **Committee title:** Comité de la Tesis: Study of the Transition Phase between AGB Stars and PNe” Candidato a Doctor: Domingo Aníbal García Hernández Director(es) de Tesis: Dr. Arturo Manchado Torres y Dr. Pedro García Lario Universidad/Instituto: Universidad de La Laguna / Instituto de Astrofísica de Andalucía Participación en el Tribunal: 1er Suplente  
**Affiliation entity:** Instituto de Astrofísica de Canarias **Type of entity:** Public Research Body  
**Start-End date:** 17/06/2005 - 17/06/2005
- 19** **Committee title:** Comité de la Tesis: An Infrared Study of Galactic OH/IR Stars” Candidato a Doctor: Francisco Manuel Jiménez Esteban Director(es) de Tesis: Dr. Pedro García Lario y Dr. Dieter Engels Universidad/Instituto: Universidad Autónoma de Madrid Participación en el Tribunal: 2o Suplente  
**Affiliation entity:** Universidad Autónoma de Madrid **Type of entity:** University  
**Start-End date:** 07/2004 - 07/2004
- 20** **Committee title:** AXAF-Chandra Cycle 6 Peer Review  
**Geographical area:** Non EU International  
**Affiliation entity:** NASA **Type of entity:** State agency  
**Start-End date:** 12/06/2004 - 14/06/2004





## Organization of R&D activities

- 1** **Title of the activity:** Spanish X-ray Astronomy 2017: the path towards Athena, Granada, España  
**Type of activity:** Congreso Científico **Geographical area:** National  
**City of event:** Granada, Andalusia, Spain  
**Convening entity:** Instituto de Astrofísica de Andalucía, Red Infraestructura de Astronomía  
**City convening entity:** Granada, Andalusia, Spain  
**Type of participation:** Organiser  
**N° assistants:** 45  
**Start-End date:** 23/10/2017 - 25/10/2017 **Duration:** 3 days
- 2** **Title of the activity:** Workshop for the WSO Working Group and Spanish UV Astronomy, Granada, España  
**Type of activity:** Congreso Científico **Geographical area:** National  
**Convening entity:** Instituto de Astrofísica de Andalucía **Type of entity:** State agency  
**City convening entity:** Granada, Andalusia, Spain  
**Type of participation:** Organiser  
**N° assistants:** 30  
**Start-End date:** 30/06/2014 - 01/07/2014
- 3** **Title of the activity:** X-ray Universe 2008  
**Type of activity:** Miembro Comité Organizador Local **Geographical area:** Internacional  
**Convening entity:** European Space Astronomy Centre  
**Start date:** 27/05/2008
- 4** **Title of the activity:** Asymmetrical Planetary Nebulae IV  
**Type of activity:** Miembro Comité Organizador Científico **Geographical area:** Internacional  
**Convening entity:** Instituto de Astrofísica de Canarias  
**Start date:** 18/06/2007
- 5** **Title of the activity:** VII Reunión Científica de la Sociedad Española de Astronomía  
**Type of activity:** Miembro Comité Organizador Científico **Geographical area:** Internacional  
**Convening entity:** SEA  
**Start date:** 12/09/2006
- 6** **Title of the activity:** Seminarios Científicos del Instituto de Astrofísica de Andalucía  
**Type of activity:** Seminarios **Geographical area:** Institucional  
**Convening entity:** Instituto de Astrofísica de Andalucía  
**Start date:** 10/2004
- 7** **Title of the activity:** The Many Scales in the Universe – JENAM 2004  
**Type of activity:** Miembro Comité Organizador Local **Geographical area:** Internacional  
**Convening entity:** JENAM  
**Start date:** 13/09/2004



- 8 Title of the activity:** How does the Galaxy Work? A Galactic Tertulia with Don Cox and Don Reynolds  
**Type of activity:** Miembro Comité Organizador Local **Geographical area:** Internacional  
**Convening entity:** Instituto de Astrofísica de Andalucía  
**Start date:** 23/06/2003

## R&D management

**Name of the activity:** Vicedirector de Ciencia  
**Type of management:** Management of body  
**Performed tasks:** Vicedirección  
**Entity:** Instituto de Astrofísica de Andalucía **Type of entity:** State agency  
**Start date:** 15/06/2013 **Duration:** 3 years - 2 months - 15 days

## Other achievements

### Stays in public or private R&D centres

- 1 Entity:** Universidad Nacional Autónoma de México **Type of entity:** Public Research Body  
**Faculty, institute or centre:** Instituto de Ciencias Nucleares  
**City of entity:** Mexico DF, Mexico  
**Start-End date:** 06/03/2017 - 10/03/2017 **Duration:** 5 days  
**Goals of the stay:** Guest
- 2 Entity:** Universidad de Guadalajara, Jalisco  
**City of entity:** Guadalajara, Mexico  
**Start-End date:** 01/09/2016 - 28/02/2017 **Duration:** 6 months  
**Goals of the stay:** Estancia Programa Salvador de Madariaga
- 3 Entity:** Universidad de Guanajuato **Type of entity:** University  
**City of entity:** Guanajuato, Mexico  
**Start-End date:** 24/02/2017 - 24/02/2017 **Duration:** 1 day  
**Goals of the stay:** Guest
- 4 Entity:** Smithsonian Institute **Type of entity:** Public Research Body  
**City of entity:** Boston, United States of America  
**Start-End date:** 07/11/2016 - 12/11/2016 **Duration:** 5 days  
**Goals of the stay:** Guest
- 5 Entity:** Universidad de Guadalajara, Jalisco **Type of entity:** University Research Institute  
**Faculty, institute or centre:** Instituto de Astronomía y Meteorología  
**City of entity:** Guadalajara, Mexico  
**Start-End date:** 12/06/2016 - 18/06/2016 **Duration:** 7 days  
**Goals of the stay:** Guest
- 6 Entity:** Universidad Nacional Autónoma de México **Type of entity:** Public Research Body  
**Faculty, institute or centre:** Instituto de Astronomía  
**City of entity:** Ensenada, Mexico  
**Start-End date:** 04/04/2016 - 09/04/2016 **Duration:** 5 days

**Goals of the stay:** Guest

- 7** **Entity:** Universidad de Guadalajara, Jalisco **Type of entity:** University Research Institute  
**Faculty, institute or centre:** Instituto de Astronomía y Meteorología  
**City of entity:** Guadalajara, Mexico  
**Start-End date:** 23/07/2015 - 04/07/2015 **Duration:** 11 days  
**Goals of the stay:** Guest
- 8** **Entity:** Department of Astronomy, Potsdam University  
**City of entity:** Potsdam, Germany  
**Start-End date:** 10/06/2011 - 15/06/2011 **Duration:** 5 days  
**Name of programme:** Workshop on the analysis of the diffuse X-ray emission from NGC 602 in the Small Magellanic Cloud  
**Goals of the stay:** Guest
- 9** **Entity:** Macquarie University  
**City of entity:** Sydney,  
**Start-End date:** 01/01/2010 - 31/08/2010 **Duration:** 8 months  
**Name of programme:** Variabilidad en UV lejano de estrellas centrales de nebulosas planetarias  
**Goals of the stay:** Sabático Ministerio de Educación y Ciencia
- 10** **Entity:** Department of Astronomy, University of Illinois  
**City of entity:** Urbana, Illinois,  
**Start-End date:** 01/1999 - 05/2003 **Duration:** 4 years - 5 months  
**Name of programme:** Emisión de rayos X en nebulosas planetarias  
**Goals of the stay:** Post-doctoral
- 11** **Entity:** Instituto de Astrofísica de Canarias **Type of entity:** Public Research Body  
**City of entity:** La Laguna, Tenerife, Spain  
**Start-End date:** 10/1995 - 10/1998 **Duration:** 3 years  
**Name of programme:** Morfología y cinemática de nebulosas planetarias / Astrónomo soporte del Observatorio del Roque de los Muchachos  
**Goals of the stay:** Post-doctoral
- 12** **Entity:** Instituto de Astrofísica de Canarias **Type of entity:** Public Research Body  
**City of entity:** La Laguna, Tenerife, Spain  
**Start-End date:** 10/1992 - 09/1995 **Duration:** 4 years  
**Name of programme:** Tesis doctoral en las abundancias químicas de nebulosas planetarias  
**Goals of the stay:** Doctorate
- 13** **Entity:** Department of Astronomy, University of Illinois  
**City of entity:** Urbana, Illinois,  
**Start date:** 09/2008 **Duration:** 14 days  
**Name of programme:** Emisión de rayos X en nebulosas planetarias  
**Goals of the stay:** Guest
- 14** **Entity:** Instituto de Ciencias Nucleares, Universidad Nacional Autónoma de México  
**City of entity:** Ciudad de México, Mexico  
**Start date:** 11/2007 **Duration:** 3 days  
**Name of programme:** La Formación y Desarrollo de Estructuras de Choques de Proa en Nebulosas Planetarias con Flujos Colimados

**Goals of the stay:** Guest

- 15** **Entity:** Departamento de Astronomía, Universidad de Guadalajara  
**City of entity:** Guadalajara, Mexico  
**Start date:** 11/2007 **Duration:** 5 days  
**Name of programme:** Emisión Infrarroja en la Molécula de H<sub>2</sub> en Nebulosas Planetarias  
**Goals of the stay:** Guest
- 16** **Entity:** Departamento de Astronomía, Universitat de Barcelona  
**City of entity:** Barcelona, Spain  
**Start date:** 05/2006 **Duration:** 4 days  
**Name of programme:** La estructura tridimensional y formación de la nebulosa planetaria IC 4634  
**Goals of the stay:** Guest
- 17** **Entity:** Department of Astronomy, Potsdam University  
**City of entity:** Potsdam, Germany  
**Start date:** 03/2006 **Duration:** 4 days  
**Name of programme:** Emisión de rayos X en estrellas Wolf-Rayet Galácticas y en las Nubes de Magallanes  
**Goals of the stay:** Guest
- 18** **Entity:** Department of Astronomy, University of Illinois  
**City of entity:** Urbana, Illinois,  
**Start date:** 11/2004 **Duration:** 14 days  
**Name of programme:** Emisión de rayos X en nebulosas planetarias  
**Goals of the stay:** Guest
- 19** **Entity:** Department of Astronomy, University of Illinois  
**City of entity:** Urbana, Illinois,  
**Start date:** 05/2004 **Duration:** 10 days  
**Name of programme:** Emisión de rayos X en nebulosas planetarias  
**Goals of the stay:** Guest
- 20** **Entity:** Universidad Nacional Autónoma de México, UNAM  
**City of entity:** Ensenada, Baja California, Mexico  
**Start date:** 02/1998 **Duration:** 10 days  
**Name of programme:** Tesis doctoral en las abundancias químicas de nebulosas planetarias  
**Goals of the stay:** Guest