



**Juan Carlos Marrero
González**

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**Juan Carlos Marrero González**

Surname(s): **Marrero González**
 Name: **Juan Carlos**
 DNI: **42089884E**
 Date of birth: **31/07/1965**
 Gender: **Male**
 Nationality: **Spain**
 Country of birth: **Spain**
 Aut. comm./reg. of birth: **Canary Islands**
 Contact province: **Santa Cruz de Tenerife**
 City of birth: **Arico, La Sabinita, n 6**
 Contact address: **C Astrofisico Fco Sánchez, s/n**
 Postcode: **38071**
 Contact country: **Spain**
 Contact aut. comm./reg.: **Canary Islands**
 Contact city: **La Laguna**
 Land line phone: **922318163**
 Fax: **922318145**
 Email: **jcmarrer@ull.es**
 Mobile phone: **638670336**
 Personal web page: **<http://www.alojamientoavanzado.com/digeme/cmembers?q=members/18>**

Current professional situation**Name of institution:** Universidad de La Laguna**Department, service, etc.:** Matemática Fundamental, Facultad de Matemáticas**Category/position or post:** Catedrático de Universidad**Start date:** 17/08/1998**Type of contract:** Civil servant**Type of dedication:** Full time**Previous posts and activities**

	Name of institution	Category/position or post	Start date
1	Universidad de La Laguna	Profesor Titular de Universidad	06/02/1993
2	Universidad de La Laguna	Profesor Titular Interino de Universidad	27/03/1992
3	Universidad de La Laguna	Profesor Ayudante	01/10/1990
4	Universidad de La Laguna	Profesor Asociado a tiempo completo	01/05/1990
5	Universidad de La Laguna	Becario del Plan de Formación del Personal Investigador	01/01/1988

1 Name of institution: Universidad de La Laguna**Category/position or post:** Profesor Titular de Universidad**Start date:** 06/02/1993**End date:** 16/08/1998



- 2** **Name of institution:** Universidad de La Laguna
Category/position or post: Profesor Titular Interino de Universidad
Start date: 27/03/1992
End date: 05/02/1993
- 3** **Name of institution:** Universidad de La Laguna
Category/position or post: Profesor Ayudante
Start date: 01/10/1990
End date: 26/03/1992
- 4** **Name of institution:** Universidad de La Laguna
Category/position or post: Profesor Asociado a tiempo completo
Start date: 01/05/1990
End date: 30/09/1990
- 5** **Name of institution:** Universidad de La Laguna
Category/position or post: Becario del Plan de Formación del Personal Investigador
Start date: 01/01/1988
End date: 30/04/1990



Official training received

University education

University degrees, engineering degrees or master's degrees

Official qualification: Higher degree

Name of qualification: Licenciado en Matemáticas Especialidad Matemática Fundamental

institution issuing the qualification: Universidad de La Laguna

Date of qualification: 1987

Doctorates

Doctorate programme: Doctor en Matemáticas

University issuing the qualification: Universidad de La Laguna

Date of qualification: 05/04/1990

Language skills

Language	Speaking	Reading	Writing
French	Elementary	Advanced	Elementary
English	Advanced	Advanced	Advanced

Teaching activity

Supervision of dissertations and/or final projects

- Project title:** Symplectic principal R-bundles and applications to non-autonomous Hamiltonian systems
Type of project: Doctoral thesis
Co-director of thesis: Anna Maria Pastore
University issuing the qualification: Università degli studi di Bari, Universidad de La Laguna
City: Bari, Italy
Doctorate student: Ignazio Lacirasella
Date of reading: 31/05/2013
- Project title:** LAGRANGIAN LIE SUBALGEBROIDS OF THE CANONICAL SYMPLECTIC LIE ALGEBROID
Type of project: Trabajo Fin de Master
Co-director of thesis: Narciso Román Roy
University issuing the qualification: Universitat Politècnica de Catalunya
City: Barcelona, Catalonia, Spain
Doctorate student: Mònica Aymerich Valls
Date of reading: 13/07/2011



- 3** **Project title:** ON TULCZYJEW TRIPLES FOR TIME-DEPENDENT MECHANICS
Type of project: Trabajo Fin de Master
University issuing the qualification: Universidad de La Laguna
City: La Laguna, Canary Islands, Spain
Doctorate student: Elisa Lavinia Guzmán Alonso
Date of reading: 02/07/2010
- 4** **Project title:** REDUCCION LIE-POISSON
Type of project: Trabajo Académicamente dirigido
University issuing the qualification: Universidad de La Laguna
City: La Laguna, Canary Islands, Spain
Doctorate student: Mònica Aymerich Valls
Date of reading: 2010
- 5** **Project title:** MECÁNICA GEOMÉTRICA Y AFGEBROIDES DE LIE
Type of project: Doctoral thesis
Co-director of thesis: David Iglesias Ponte
University issuing the qualification: Universidad de La Laguna
City: La Laguna, Canary Islands, Spain
Doctorate student: Diana de las Nieves Sosa Martín
Date of reading: 15/04/2008
- 6** **Project title:** GRUPOS Y GRUPOIDES DE LIE Y ESTRUCTURAS DE JACOBI
Type of project: Doctoral thesis
Co-director of thesis: Juan Carlos Marrero
University issuing the qualification: Universidad de La Laguna
City: La Laguna, Canary Islands, Spain
Doctorate student: David Iglesias Ponte
Date of reading: 11/07/2003
- 7** **Project title:** TEORÍAS DE HOMOLOGÍA Y COHOMOLOGÍA PARA VARIETADES DE JACOBI, NAMBU-POISSON Y NAMBU-JACOBI
Type of project: Doctoral thesis
Co-director of thesis: María Edith Padrón Fernández
University issuing the qualification: Universidad de La Laguna
City: La Laguna, Canary Islands, Spain
Doctorate student: Belén López Brito
Date of reading: 13/12/2002
- 8** **Project title:** SOBRE LA COHOMOLOGIA DE DE-RHAM DE VARIETADES LOCALMENTE D-CONFORME COSIMPLECTICAS PARALELAS
Type of project: Minor thesis
University issuing the qualification: Universidad de La Laguna
City: La Laguna, Canary Islands, Spain
Doctorate student: Diana de las Nieves Sosa Martín
Date of reading: 04/10/1999
- 9** **Project title:** REDUCCION SIMPLECTICA DE MARS DEN-WEINSTEIN
Type of project: Trabajo Académicamente dirigido
University issuing the qualification: Universidad de La Laguna



City: La Laguna, Canary Islands, Spain
Doctorate student: David Iglesias Ponte
Date of reading: 1999

10 Project title: SUBMERSIONES LOCALMENTE CONFORME KAHLER Y CASI CONTACTO CON ESPACIO TOTAL UNA VARIEDAD LOCALMENTE CONFORME COSIMPLÉCTICA

Type of project: Doctoral thesis

University issuing the qualification: Universidad de La Laguna

City: La Laguna, Canary Islands, Spain

Doctorate student: Juan Rocha Martín

Date of reading: 06/02/1995

11 Project title: VARIETADES GENERALIZADAS DE HOPF M-HIPERBOLICAS

Type of project: Minor thesis

University issuing the qualification: Universidad de La Laguna

City: La Laguna, Canary Islands, Spain

Doctorate student: Juan Rocha Martín

Date of reading: 10/09/1991

Other activities/achievements not included above

Description of the activity: COORDINADOR DEL MASTER OFICIAL DE LA ULL MATEMATICA AVANZADA: APLICACIONES Y EDUCACION" Y DEL PROGRAMA DE DOCTORADO DE LA ULL MATEMATICAS" (DESDE ENERO DE 2011)

Organising institution: Universidad de La Laguna

Experience in science and technology

Scientific or technological activity

Participation in R&D&I projects funded in competitive calls by public or private bodies

1 Name of the project: MECANICA GEOMETRICA, TEORIAS CLASICAS DE CAMPOS Y ESTRUCTURAS DE POISSON

Project area: National

Institution where project took place: Universidad de La Laguna

Head(s) researcher(s): Juan Carlos Marrero González

Number of researchers: 10

Funding institution or bodies:

Ministerio de Ciencia e Innovación

Code acc. to the funding institution: MTM2012-34478

Start date: 01/02/2013

End date: 31/01/2016

Total amount: 28.665

**2 Name of the project:** INVESTIGACIONES EN MECÁNICA GEOMÉTRICA**Project area:** Regional**Institution where project took place:** Universidad de La Laguna**Head(s) researcher(s):** J C Marrero**Number of researchers:** 5**Funding institution or bodies:**

Agencia Canaria de Investigación Innovación y Sociedad de la Información

Code acc. to the funding institution: ProID20100210**Start date:** 08/01/2011**End date:** 07/01/2014**Total amount:** 30.000**3 Name of the project:** GEOMETRÍA, MECÁNICA Y CONTROL**Project area:** National**Institution where project took place:** Universidad de La Laguna**Head(s) researcher(s):** María Edith Padrón Fernández**Funding institution or bodies:**

Ministerio de Ciencia e Innovación

Name of the programme: Acción Complementaria**Code acc. to the funding institution:** MTM2011-15725-E**Start date:** 01/05/2012**End date:** 30/09/2013**Total amount:** 15.000**4 Name of the project:** GEOMECH. Geometric Mechanics**Project area:** European Union**Role:** Researcher**Institution where project took place:** Universidad de Ghent**City:** Ghent, Belgium**Head(s) researcher(s):** Frans Cantrijn; David Martín De Diego**Funding institution or bodies:**

European Commission

Code acc. to the funding institution: FP7-PEOPLE-2009-IRSES, 246981**Start date:** 2010**End date:** 2013**Total amount:** 158.400**5 Name of the project:** GEOMETRIA, MECANICA Y TEORIAS CLASICAS DE CAMPOS. ALGUNOS PROBLEMAS VARIACIONALES**Project area:** National**Institution where project took place:** Universidad de La Laguna**Head(s) researcher(s):** Juan Carlos Marrero González**Number of researchers:** 7**Funding institution or bodies:**

Ministerio de Ciencia e Innovación

Code acc. to the funding institution: MTM2009-13383**Start date:** 01/01/2010**End date:** 31/12/2012**Total amount:** 49.489,01



- 6** **Name of the project:** GEOMETRÍA, MECÁNICA Y CONTROL
Project area: National
Institution where project took place: Universidad de La Laguna
Head(s) researcher(s): Juan Carlos Marrero González
Funding institution or bodies:
Ministerio de Ciencia e Innovación
Name of the programme: Acción Complementaria
Code acc. to the funding institution: MTM2010-12116-E
Start date: 01/02/2011
End date: 30/07/2012
Total amount: 15.000
- 7** **Name of the project:** Jornadas iMATH. Redes temáticas españolas
Project area: National
Role: Researcher
Institution where project took place: Universidad de La Laguna
Head(s) researcher(s): Edith Padrón Fernández
Number of researchers: 2
Funding institution or bodies:
i-Math
Code acc. to the funding institution: SAIRT-CEXT-0463
Start date: 2011
End date: 2012
Total amount: 15.700
- 8** **Name of the project:** Consolider Mathematica
Project area: National
Role: Researcher
Institution where project took place: Universidad de Cantabria
Head(s) researcher(s): Enrique Zuazua
Funding institution or bodies:
Ministerio de Ciencia e Innovación
Code acc. to the funding institution: CSD2006-00032
Start date: 2006
End date: 2012
Total amount: 7.500.000
- 9** **Name of the project:** GEOMETRÍA DIFERENCIAL, MECÁNICA Y TEORÍA DE CAMPOS: TEORÍA DE HAMILTON-JACOBI Y APLICACIONES ARMÓNICAS
Project area: Regional
Institution where project took place: Universidad de La Laguna
Head(s) researcher(s): Juan Carlos Marrero González
Number of researchers: 8
Funding institution or bodies:
Agencia Canaria de Investigación, Innovación y Sociedad de la Información
Code acc. to the funding institution: SOLSUBC200801000238
Start date: 06/10/2009
End date: 02/11/2011



Total amount: 38.500

10 Name of the project: GEOMETRÍA, MECÁNICA Y CONTROL

Project area: National

Institution where project took place: Universidad de La Laguna

Head(s) researcher(s): Juan Carlos Marrero González

Funding institution or bodies:

Ministerio de Ciencia e Innovación

Name of the programme: Acción Complementaria

Code acc. to the funding institution: MTM2009-08166-E

Start date: 01/02/2010

End date: 30/04/2011

Total amount: 20.000

11 Name of the project: Ayudas para Mantenimiento de Grupos de Investigación Consolidados

Project area: local

Institution where project took place: Universidad de La Laguna

Head(s) researcher(s): Juan Carlos Marrero González

Funding institution or bodies:

Universidad de La Laguna

Name of the programme: Ayudas a la investigación ULL

Start date: 2011

End date: 2011

Total amount: 4.000

12 Name of the project: GEOMETRÍA, MECANICA Y CONTROL

Project area: National

Institution where project took place: Universidad de La Laguna

Head(s) researcher(s): Juan Carlos Marrero González

Funding institution or bodies:

Ministerio de Ciencia e Innovación

Type of institution: Body, others

Name of the programme: Acción complementaria

Code acc. to the funding institution: MTM2008-03606-E

Start date: 20/01/2009

End date: 20/04/2010

Total amount: 12.000

13 Name of the project: Ayudas para Mantenimiento de Grupos de Investigación Consolidados

Project area: local

Institution where project took place: Universidad de La Laguna

Head(s) researcher(s): Juan Carlos Marrero González

Number of researchers: 7

Funding institution or bodies:

Universidad de La Laguna

Type of institution: University

Name of the programme: Ayudas a la investigación ULL

Start date: 2010

End date: 2010

Total amount: 4.386



- 14** **Name of the project:** Proyecto conjunto INSTITUTE OF MATHEMATICS (POLISH ACADEMY OF SCIENCES), ICMAT (CSIC)
Project area: internacional
Role: Researcher
Institution where project took place: Instituto de Matemáticas y Física Fundamental, CSIC
Head(s) researcher(s): Janusz Grabowski; M de León Rodríguez
Number of researchers: 10
Funding institution or bodies:
CSIC

Code acc. to the funding institution: P2008PL01
Start date: 2009
End date: 2010
- 15** **Name of the project:** MECÁNICA GEOMÉTRICA Y TEORÍAS CLÁSICAS DE CAMPOS EN EL CONTEXTO DE ALGEBROIDES Y GRUPOIDES DE LIE
Project area: National
Institution where project took place: Universidad de La Laguna
Head(s) researcher(s): Juan Carlos Marrero González
Number of researchers: 4
Funding institution or bodies:
MINISTERIO DE EDUCACION Y CIENCIA

Code acc. to the funding institution: MTM2006-03322
Start date: 01/10/2006
End date: 30/09/2009
Total amount: 46.669,7
- 16** **Name of the project:** GEOMETRÍA, MECÁNICA Y CONTROL
Project area: National
Institution where project took place: Universidad de La Laguna
Head(s) researcher(s): Juan Carlos Marrero González
Funding institution or bodies:
MINISTERIO DE EDUCACION Y CIENCIA
City: Spain

Name of the programme: Acciones complementarias
Code acc. to the funding institution: MTM2007-30168-E
Start date: 20/01/2008
End date: 20/04/2009
Total amount: 9.000
- 17** **Name of the project:** Ayudas para Mantenimiento de Grupos de Investigación Consolidados
Project area: local
Institution where project took place: Universidad de La Laguna
Head(s) researcher(s): Juan Carlos Marrero González
Number of researchers: 7
Funding institution or bodies:
Universidad de La Laguna
Type of institution: University

Name of the programme: Ayudas a la investigación ULL
Start date: 2009
End date: 2009



Total amount: 2.112

18 Name of the project: Jornadas buscando lo óptimo

Project area: National

Role: Researcher

Institution where project took place: Universidad de La Laguna

Head(s) researcher(s): Edith Padrón Fernández

Number of researchers: 3

Funding institution or bodies:

AGENCIA CANARIA DE INVESTIGACIÓN, INNOVACION Y SOCIEDAD DE LA INFORMACION

Name of the programme: Divulgación

Code acc. to the funding institution: Congre200901000031

Start date: 2009

End date: 2009

Total amount: 1.425

19 Name of the project: GEOMETRÍA, MECÁNICA Y CONTROL

Project area: National

Institution where project took place: Universidad de La Laguna

Head(s) researcher(s): Juan Carlos Marrero González

Number of researchers: 29

Funding institution or bodies:

MINISTERIO DE EDUCACION Y CIENCIA

Name of the programme: Acciones complementarias

Code acc. to the funding institution: MTM2006-27467-E

Start date: 15/01/2007

End date: 26/06/2008

Total amount: 12.000

20 Name of the project: Ayudas para Mantenimiento de Grupos de Investigación Consolidados

Project area: local

Institution where project took place: Universidad de La Laguna

Head(s) researcher(s): Juan Carlos Marrero González

Number of researchers: 7

Funding institution or bodies:

Universidad de La Laguna

Type of institution: University

Name of the programme: Ayudas a la investigación ULL

Code acc. to the funding institution: MGC 08/16

Start date: 2008

End date: 2008

Total amount: 6.000

21 Name of the project: XV INTERNATIONAL WORKSHOP ON GEOMETRY AND PHYSICS (SATELITE DE ICM2006)

Project area: National

Institution where project took place: Universidad de La Laguna

Head(s) researcher(s): Juan Carlos Marrero González

Number of researchers: 5

Funding institution or bodies:



MINISTERIO DE EDUCACION Y CIENCIA

Name of the programme: Acciones complementarias
Code acc. to the funding institution: MTM2005-24556-E
Start date: 01/09/2006
End date: 13/12/2007
Total amount: 3.000

22 **Name of the project:** GEOMETRÍA, MECÁNICA Y CONTROL
Project area: National
Institution where project took place: Universidad de La Laguna
City: España,
Head(s) researcher(s): Juan Carlos Marrero González
Funding institution or bodies:
MINISTERIO DE EDUCACION Y CIENCIA

Name of the programme: Acciones complementarias
Code acc. to the funding institution: MTM2005-24556-E
Start date: 20/12/2005
End date: 20/03/2007
Total amount: 20.000

23 **Name of the project:** Equipamiento e infraestructura Científico-Tecnológica
Project area: Regional
Institution where project took place: Universidad de La Laguna
Head(s) researcher(s): Juan Carlos Marrero González
Number of researchers: 12
Funding institution or bodies:
Dirección General de Universidades del Gobierno de Canarias

Name of the programme: Equipamiento científico
Code acc. to the funding institution: EQU2005/045
Start date: 03/2006
End date: 03/2007
Total amount: 10.880,43

24 **Name of the project:** FIRST INTERNATIONAL SUMMER SCHOOL ON GEOMETRY, MECHANICS, AND CONTROL
Project area: National
Role: Researcher
Institution where project took place: Universidad de La Laguna
Head(s) researcher(s): David Martín De Diego
Funding institution or bodies:
I+MATH
Start date: 2007
End date: 2007
Total amount: 6.000

25 **Name of the project:** Ayudas para Mantenimiento de Grupos de Investigación Consolidados
Project area: local
Institution where project took place: Universidad de La Laguna
Head(s) researcher(s): Juan Carlos Marrero González



Number of researchers: 7

Funding institution or bodies:

Universidad de La Laguna

Name of the programme: Ayudas a la Investigación ULL

Code acc. to the funding institution: MGC/06/25

Start date: 2006

End date: 2007

Total amount: 1.500

26 Name of the project: ALGEBROIDES DE LIE: RELACIONES CON GRUPOIDES DE JACOBI, TEORIAS DE CAMPOS Y GEOMETRÍA MULTISIMPLÉCTICA

Project area: National

Institution where project took place: Universidad de La Laguna

Head(s) researcher(s): Juan Carlos Marrero González

Number of researchers: 4

Funding institution or bodies:

MINISTERIO DE CIENCIA Y TECNOLOGÍA

Code acc. to the funding institution: BFM2003-01319

Start date: 01/12/2003

End date: 30/11/2006

Total amount: 102.040

27 Name of the project: RED TEMÁTICA DE GEOMETRÍA Y FÍSICA

Project area: National

Role: Researcher

Institution where project took place: Instituto de Matemáticas y Física Fundamental, CSIC

Head(s) researcher(s): Oscar García de Prada

Funding institution or bodies:

MINISTERIO DE EDUCACION Y CIENCIA

Name of the programme: Acción complementarias

Code acc. to the funding institution: MTM2004-22206-E

Start date: 2004

End date: 2005

Total amount: 6.000

28 Name of the project: RED TEMÁTICA DE GEOMETRÍA Y FÍSICA

Project area: National

Role: Researcher

Institution where project took place: Instituto de Matemáticas y Física Fundamental, CSIC

Head(s) researcher(s): Oscar García de Prada

Funding institution or bodies:

MINISTERIO DE CIENCIA Y TECNOLOGÍA

Name of the programme: Acciones complementarias

Code acc. to the funding institution: BFM2002-11010-E

Start date: 2003

End date: 2004

Total amount: 15.000



- 29** **Name of the project:** CORCHETES Y MULTICORCHETES DE POISSON Y JACOBI, GRUPOS Y ALGEBROIDES DE LIE Y TEORÍAS DE HOMOLOGÍA Y COHOMOLOGÍA
Project area: National
Institution where project took place: Universidad de La Laguna
Head(s) researcher(s): Juan Carlos Marrero González
Number of researchers: 4
Code acc. to the funding institution: BFM2000-0808
Start date: 20/12/2000
End date: 19/12/2003
Total amount: 26.178,16
- 30** **Name of the project:** GEOMETRÍA Y DINÁMICA DE VARIEDADES DE JACOBI Y POISSON GENERALIZADAS. FORMULACIÓN GEOMÉTRICA DE SISTEMAS LAGRANGIANOS CON LIGADURAS
Project area: National
Institution where project took place: Universidad de La Laguna
Head(s) researcher(s): Juan Carlos Marrero González
Number of researchers: 5
Funding institution or bodies:
DIRECCIÓN GENERAL DE ENSEÑANZA SUPERIOR E INVESTIGACIÓN CIENTÍFICA, MINISTERIO DE EDUCACION Y CIENCIA
Code acc. to the funding institution: PB97-1487
Start date: 02/10/1998
End date: 02/10/2000
Total amount: 15.000

Participation in R&D&I non-competitive projects, contracts or agreements with administrations or public or private bodies

- 1** **Name of the project:** CONVENIO DE COOPERACION ENTRE LA UNIVERSIDAD DE LA LAGUNA Y LA UNIVERSIDAD NACIONAL DEL SUR (ARGENTINA) DEL SUR- MECANICA GEOMÉTRICA Y TEORÍA DE CONTROL
Project area: Non EU International
Role: Scientific coordinator
Institution where project took place: Universidad de La Laguna
Head researcher: Hernán Cendra; Juan Carlos Marrero González
Number of researchers: 7
Participating bodies: Universidad Nacional del Sur; Universidad de La Laguna
Funding institution or bodies:
Universidad de La Laguna
City: Bahia Blanca, Argentina
Type of institution: University
Type of project: Cooperation
Start date: 12/07/2010
- 2** **Name of the project:** CONVENIO DE COOPERACION ENTRE LA UNIVERSIDAD DE LA LAGUNA Y LA UNIVERSIDAD DE CUYO (ARGENTINA) - MECANICA GEOMÉTRICA Y TEORÍA DE CONTROL
Role: Scientific coordinator
Institution where project took place: Universidad de La Laguna
Head researcher: Sergio Grillo; Juan Carlos Marrero González



Number of researchers: 7

Participating bodies: Universidad de Cuyo; Universidad de La Laguna

Funding institution or bodies:

Universidad de La Laguna

Universidad de Cuyo

City: Argentina

Type of project: Cooperation

Start date: 04/05/2010

3 Name of the project: UNIDAD ASOCIADA CON EL CSIC GEOMETRÍA DIFERENCIAL Y MECÁNICA GEOMÉTRICA

Project area: National

Role: Scientific coordinator

Institution where project took place: Universidad de La Laguna

Head researcher: Juan Carlos Marrero González

Participating bodies: Consejo Superior de Investigaciones Científicas; Universidad de La Laguna

Funding institution or bodies:

CSIC

Type of project: Cooperation

Start date: 20/12/2007

4 Name of the project: GEOMETRIA Y DINAMICA DE VARIEDADES DE JACOBI

Head researcher: Juan Carlos Marrero González

Number of researchers: 3

Participating bodies: Universidad de La Laguna

Start date: 01/04/1997, 1 year

Total amount: 3.000

Scientific and technological activities

Scientific production

Publications, scientific and technical documents

1 D IGLESIAS; JC MARRERO; D MARTIN DE DIEGO; E PADRON. DISCRETE DYNAMICS IN IMPLICIT FORM. DISCRETE CONTINUOUS DYNAMICAL SYSTEMS –SERIES A. 33 - 3, pp. 1117 - 1135. 2013.

Type of production: Article

Format: Journal

2 M de León; J C Marrero; D Martín de Diego; M Vaquero. ON THE HAMILTON-JACOBI THEORY FOR SINGULAR LAGRANGIAN SYSTEMS. J MATH PHYSICS. 54, pp. 032902 - 32 pages. 2013.

Type of production: Article

Format: Journal

3 D Iglesias; J C Marrero; M Vaquero. POLY-POISSON STRUCTURES. LETTERS IN MATH PHYSICS, DOI 10.1007/s11005-013-0629-2. 2013.

Type of production: Article



- 4** J C Marrero; N Román Roy; M Salgado; S Vilarino. REDUCTION OF POLYSYMPLECTIC MANIFOLDS. Preprint arXiv:1306.0337. 2013.
Type of production: Article
- 5** J C Marrero; D Martín de Diego; E Martínez. THE LOCAL DESCRIPTION OF DISCRETE MECHANICS. Preprint arXiv:1303.4047. 2013.
Type of production: Article
- 6** Y Fedorov; L García Naranjo; J C Marrero. UNIMODULARITY AND PRESERVATION OF VOLUMES IN NONHOLONOMIC MECHANICS. Preprint arXiv:1304.1788. 2013.
Type of production: Article
- 7** C M Campos; E Guzmán; J C Marrero. CLASSICAL FIELD THEORIES OF FIRST ORDER AND LAGRANGIAN SUBMANIFOLDS OF PREMULTISYMPLECTIC MANIFOLDS. J GEOM MECH. 4 - 1, pp. 1 - 26. 2012.
Type of production: Article **Format:** Journal
- 8** M Barbero Liñán; M de León; J C Marrero; D Martín de Diego; M C Muñoz Lecanda. KINEMATIC REDUCTION AND THE HAMILTON-JACOBI EQUATION. J GEOM MECH. 4 - 3, pp. 207 - 237. 2012.
Type of production: Article
- 9** J.C. Marrero; E. Padrón; M. Rodríguez Olmos. REDUCTION OF A SYMPLECTIC LIKE LIE ALGEBROID WITH MOMENTUM MAP AND ITS APPLICATION TO FIBERWISE LINEAR POISSON STRUCTURES. J. PHYS. A: MATH AND THEOR. 45, 2012.
Type of production: Article **Format:** Journal
- 10** I Lacirasella; J C Marrero; E Padrón. REDUCTION OF SYMPLECTIC PRINCIPAL R-BUNDLES. J PHYS A: MATH AND THEOR. 45, pp. 325202 - 29 pp. 2012.
Type of production: Article
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Type of production: Article **Format:** Journal
- 103** J C Marrero. ALGUNAS PROPIEDADES DE CURVATURA DE VARIEDADES LOCALMENTE LOCALMENTE CONFORME CO-KAHLER. REV. ACAD. CANAR. CIENC.1, pp. 261 - 270. 1990.
Type of production: Article **Format:** Journal
- 104** D Chinae; J C Marrero. ON INVARIANT SUBMANIFOLDS OF LOCALLY CONFORMAL ALMOST COSYMPLECTIC MANIFOLDS. BOLL. UNIONE MAT. ITALIANA. 7, pp. 357 - 364. 1990.
Type of production: Article **Format:** Journal

Work presented in conferences at the national or international level

- 1** **Title:** FURTHER EVIDENCE THAT EVERYTHING IN CLASSICAL MECHANICS IS A LAGRANGIAN SUBMANIFOLD
Name of the conference: GEOMETRY DAY
Type of event: Workshop
Type of participation: Invited speaker
City: Coimbra, Portugal
Date: 2013
Organising institution: Universidad de Coimbra
- 2** **Title:** UNA INTRODUCCION A MECANICA DISCRETA EN GRUPOIDES DE LIE
Name of the conference: COLOQUIO DE MATEMATICAS APLICADAS IIMAS
Type of event: Workshop
Type of participation: Invited speaker
City: México D F, Mexico
Date: 2013
Organising institution: IIMAS-UNAM
- 3** **Title:** FROM SOME BASIC ASPECTS IN POISSON GEOMETRY TO INVARIANT MEASURES IN NONHOLONOMIC MECHANICS
Name of the conference: DIFFERENTIAL GEOMETRY DAYS IN HONOUR OF LUIS A CORDERO
Type of event: Conference
Type of participation: Invited speaker
City: Santiago de Compostela, Spain
Date: 2012
Organising institution: Universidad de Santiago de Compostela **Type of institution:** University
- 4** **Title:** HAMILTON-JACOBI THEORY AND HAMILTONIAN SYSTEMS WITH RESPECT TO FIBER-WISE LINEAR POISSON STRUCTURES
Name of the conference: 9TH AIMS CONFERENCE ON DYNAMICAL SYSTEMS, DIFFERENTIAL EQUATIONS AND APPLICATIONS
Type of event: Conference
Type of participation: Invited speaker
City: Orlando, Florida, United States of America
Date: 2012
Organising institution: American Institute of Mathematical Sciences



- 5** **Title:** HAMILTON-JACOBI THEORY AND INTEGRABILITY
Name of the conference: FOCUS PROGRAM ON GEOMETRY, MECHANICS AND DYNAMICS, THE LEGACY OF JERRY MARSDEN AT FIELDS INSTITUTE, TORONTO
Type of event: Conference
Type of participation: Invited speaker
City: Toronto, Canada
Date: 2012
Organising institution: FIELDS INSTITUTE FOR RESEARCH IN MATHEMATICAL SCIENCES
- 6** **Title:** DESDE LA REDUCCION DE MARSDEN-WEINSTEIN A LAS ESFERAS DE POISSON
Name of the conference: JORNADA DE SISTEMAS DINAMICOS, MECANICA Y GEOMETRIA
Type of event: Workshop
Type of participation: Invited speaker
City: México City, Mexico
Date: 2012
Organising institution: ITAM
- 7** **Title:** FROM SOME BASIC ASPECTS IN POISSON GEOMETRY TO INVARIANT MEASURES IN NONHOLONOMIC MECHANICS
Name of the conference: THEMATIC DAY ON POISSON GEOMETRY AND APPLICATIONS
Type of event: Workshop
Type of participation: Invited speaker
City: Zaragoza, Spain
Date: 2012
Organising institution: Universidad de Zaragoza
- 8** **Title:** KINEMATIC REDUCTION AND THE HAMILTON-JACOBI EQUATION
Name of the conference: GEOMETRY AND PHYSICS DAY
Type of event: Workshop
Type of participation: Invited speaker
City: Coimbra, Portugal
Date: 2012
Organising institution: Universidad de Coimbra
- 9** **Title:** COISOTROPIC SUBMANIFOLDS OF LINEAR POISSON MANIFOLDS AND LAGRANGIAN ANCHORED VECTOR SUBBUNDLES OF THE SYMPLECTIC COVER
Name of the conference: XX INTERNATIONAL FALL WORKSHOP ON GEOMETRY AND PHYSICS
Type of event: Conference
Type of participation: Poster
City: Madrid, Spain
Date: 2011
Organising institution: INSTITUTO DE CIENCIAS MATEMATICAS **Type of institution:** State agency
Type: Article
M Aymerich; J C Marrero. "COISOTROPIC SUBMANIFOLDS OF LINEAR POISSON MANIFOLDS AND LAGRANGIAN ANCHORED VECTOR SUBBUNDLES OF THE SYMPLECTIC COVER". En: XX INTERNATIONAL FALL WORKSHOP ON GEOMETRY AND PHYSICS, AIP CONF PROC. 1460, pp. 154 - 158. 2012.



- 10** **Title:** INVARIANT MEASURES IN NONHOLONOMIC MECHANICS
Name of the conference: APPLIED DYNAMICS AND GEOMETRIC MECHANICS
Type of participation: Invited speaker
City: MATHEMATISCHES FORSCHUNGSINSTITUT OBERWOLFACH, Germany
Date: 2011
- 11** **Title:** MARSDEN-WEINSTEIN REDUCTION THEORY FOR THE SYMPLECTIC PROLONGATION OF A LIE ALGEBROID
Name of the conference: POISSON GEOMETRY AND ITS APPLICATIONS
Type of participation: Invited speaker
City: Coimbra, Portugal
Date: 2011
- 12** **Title:** SKEW-SYMMETRIC ALGEBROIDS AND NONHOLONOMIC MECHANICS
Name of the conference: 1 ST GONE FISHING – POISSON GEOMETRY CONFERENCE
Type of participation: Invited speaker
City: St Louis, United States of America
Date: 2011
Organising institution: Washington University
City: United States of America
- 13** **Title:** SKEW-SYMMETRIC ALGEBROIDS AND NONHOLONOMIC MECHANICS
Name of the conference: GMFTC: a Workshop celebrating the 65 birthday of Miguel Muñoz
Type of participation: Invited speaker
City: Barcelona, Spain
Date: 2011
Organising institution: Universitat Politècnica de Catalunya
- 14** **Title:** SYMPLECTIC GROUPOIDS AND DISCRETE CONSTRAINED LAGRANGIAN MECHANICS
Name of the conference: NEW DEVELOPMENTS IN GEOMETRIC MECHANICS: DISCRETE AND CONTINUOUS SETTINGS
Type of participation: Speaker
City: Varsovia, Poland
Date: 2011
- 15** **Title:** HAMILTONIAN DYNAMICS ON LIE ALGEBROIDS, UNIMODULARITY AND PRESERVATION OF VOLUMES
Name of the conference: 3 rd IBERIAN MATHEMATICAL MEETING
Type of participation: Invited speaker
City: Braga, Portugal
Date: 2010
- 16** **Title:** HAMILTONIAN MECHANICS ON SKEW-SYMMETRIC ALGEBROIDS, UNIMODULARITY AND PRESERVATION OF VOLUMES IN NONHOLONOMIC MECHANICS
Name of the conference: 8 AIMS INTERNATIONAL CONFERENCE ON DYNAMICAL SYSTEMS, DIFFERENTIAL EQUATIONS AND APPLICATIONS; SPECIAL SESSION: GEOMETRIC MECHANICS
Type of participation: Speaker
City: Dresden, Germany
Date: 2010



- 17** **Title:** MARSDEN-WEINSTEIN REDUCTION THEOREM FOR SYMPLECTIC LIE ALGEBROIDS AND SOME APPLICATIONS
Name of the conference: VI INTERNATIONAL SYMPOSIUM HAMSYS-2010 (Honouring E A Lacomba in his 65th Anniversary)
Type of participation: Invited speaker
City: Mexico City, Mexico
Date: 2010
- 18** **Title:** SYMMETRIES, NOETHER THEOREM AND REDUCTION IN K-COSYMPLECTIC FIELD THEORIES
Name of the conference: XVIII INTERNATIONAL FALL WORKSHOP ON GEOMETRY AND PHYSICS
Type of event: Conference
Type of participation: Poster
City: Benasque, Zaragoza, Spain
Date: 2009
Type: Article
J C Marrero; N Román Roy; M Salgado; S Vilariño. "SYMMETRIES, NOETHER THEOREM AND REDUCTION IN K-COSYMPLECTIC FIELD THEORIES". En: *AIP Conference Proceedings*. 1260, pp. 173 - 179. 2010.
- 19** **Title:** HAMILTONIAN DYNAMICS ON LIE ALGEBROIDS, UNIMODULARITY AND PRESERVATION OF VOLUMES
Name of the conference: IUMA DAY ON GEOMETRY, MECHANICS AND CONTROL
Type of event: Workshop
Type of participation: Invited speaker
City: Zaragoza, Spain
Date: 2009
Organising institution: Universidad de Zaragoza
- 20** **Title:** BRACKETS IN MECHANICS: OLD AND NEW RESULTS
Name of the conference: XXIV INTERNATIONAL WORKSHOP ON DIFFERENTIAL GEOMETRIC METHODS IN THEORETICAL MECHANICS
Type of participation: Invited speaker
City: Levico Terme, Trento, Italy
Date: 2009
- 21** **Title:** HAMILTON-JACOBI EQUATION AND NONHOLONOMIC MECHANICAL SYSTEMS SUBJECTED TO LINEAR CONSTRAINTS
Name of the conference: GEOMETRY OF CONSTRAINTS AND CONTROL
Type of participation: Speaker
City: Varsovia, Poland
Date: 2009
- 22** **Title:** THE EXACT DISCRETE LAGRANGIAN FUNCTION ON A LIE GROUPOID
Name of the conference: VARIATIONAL INTEGRATORS IN NONHOLONOMIC AND VAKONOMIC MECHANICS: AN EXPLORATORY WORKSHOP
Type of participation: Invited speaker
City: Madrid, Spain
Date: 2009
- 23** **Title:** GEOMETRY OF VARIATIONAL NONHOLONOMIC LAGRANGIAN SYSTEMS WITH SYMMETRIES
Name of the conference: DYNAMICAL SYSTEMS, DIFFERENTIAL EQUATIONS AND APLICATIONS
Type of event: Conference



Type of participation: Speaker
City: Arlington, Texas, United States of America
Date: 2008
J C Marrero.

- 24** **Title:** ALGEBROIDES DE LEIBNIZ Y MECÁNICA: ALGUNAS IDEAS
Name of the conference: JORNADAS DE MECÁNICA GEOMÉTRICA
Type of event: Workshop
Type of participation: Speaker
City: La Laguna, Tenerife, Spain
Date: 2008
Organising institution: Universidad de La Laguna
- 25** **Title:** CONTINUOUS MECHANICS AND LIE ALGEBROIDS
Name of the conference: II INTERNATIONAL SUMMER SCHOOL ON GEOMETRY, MECHANICS AND CONTROL
Type of event: Escuela Internacional
Type of participation: Speaker
City: Sta. Cruz de La Palma, I Canarias, Spain
Date: 2008
- 26** **Title:** GEOMETRY OF VARIATIONAL NONHOLONOMIC LAGRANGIAN SYSTEMS WITH SYMMETRIES
Name of the conference: ENCUENTRO IBEROAMERICANO SOBRE GEOMETRÍA DIFERENCIAL Y APLICACIONES
Type of participation: Speaker
City: La Laguna, Spain
Date: 2008
Organising institution: Universidad de La Laguna
- 27** **Title:** MULTYSYMPLECTIC GEOMETRY AND CLASICAL FIELD THEORY
Name of the conference: ENCUENTRO MATEMATICO HISPANO-MARROQUI
Type of participation: Invited speaker
City: Casablanca, Morocco
Date: 2008
- 28** **Title:** NONHOLONOMIC MECHANICS: A LIE ALGEBROID PERSPECTIVE
Name of the conference: I ENCUENTRO IBEROAMERICANO SOBRE GEOMETRÍA, MECANICA Y CONTROL
Type of participation: Invited speaker
City: Santiago de Compostela, Spain
Date: 2008
Organising institution: Universidad de Santiago de Compostela
- 29** **Title:** THE UBIQUITY OF THE SYMPLECTIC HAMILTONIAN EQUATIONS IN MECHANICS
Name of the conference: CONSTRAINTS AND CONTROL
Type of participation: Speaker
City: Varsovia, Poland
Date: 2008



- 30** **Title:** VAKONOMICS MECHANICS ON LIE AFFGEBROIDS
Name of the conference: XVI FALL WORKSHOP ON GEOMETRY AND PHYSICS
Type of event: Conference
Type of participation: Poster
City: Lisboa, Portugal
Date: 2007
Type: Article
J C Marrero; D Sosa. "VAKONOMICS MECHANICS ON LIE AFFGEBROIDS". En: *AIP Conf. Proc.* 1023. pp. 187. 2008.
- 31** **Title:** HAMILTON-JACOBI THEORY ON ALMOST LIE ALGEBROIDS AND NONHOLONOMIC MECHANICS
Name of the conference: WORKSHOP ON MECHANICS AND LIE ALGEBROIDS
Type of participation: Invited speaker
City: Lisboa, Portugal
Date: 2007
Organising institution: Instituto Superior Técnico
- 32** **Title:** INTRODUCCIÓN Á MECÁNICA NO HOLÓNOMA
Name of the conference: ENCONTRO NOVOS MÉTODOS XEOMÉTRICOS EN MECÁNICA E TEORÍA DE CAMPOS
Type of participation: Invited speaker
City: Vigo, Spain
Date: 2007
- 33** **Title:** DISCRETE NONHOLONOMIC LAGRANGIAN SYSTEMS ON LIE GROUPOIDS
Name of the conference: NUMERICAL INTEGRATION OF NONHOLONOMIC SYSTEMS
Type of event: Workshop
Type of participation: Invited speaker
City: Madrid, Spain
Date: 2006
Organising institution: CSIC
- 34** **Title:** MARSDEN-WEINSTEIN REDUCTION THEOREM FOR SYMPLECTIC LIE ALGEBROIDS
Name of the conference: GEOMETRIC ASPECTS OF INTEGRABLE SYSTEMS
Type of participation: Invited speaker
City: Coimbra, Portugal
Date: 2006
Organising institution: University of Coimbra
- 35** **Title:** LAGRANGIAN SUBMANIFOLDS AND DISCRETE DYNAMICS ON LIE GROUPOIDS
Name of the conference: ICM2006
Type of participation: Poster
City: Madrid, Spain
Date: 2006
D Iglesias; J C Marrero; D Martín de Diego; E Padrón.
- 36** **Title:** MARSDEN-WEINSTEIN REDUCTION THEOREM FOR SYMPLECTIC LIE ALGEBROIDS
Name of the conference: 21 INTERNATIONAL WORKSHOP ON DIFFERENTIAL GEOMETRICAL METHODS IN THEORETICAL MECHANICS
Type of participation: Invited speaker



City: Madrid, Spain

Date: 2006

Organising institution: CSIC

37 Title: NONHOLONOMIC LAGRANGIAN SYSTEMS ON LIE ALGEBROIDS

Name of the conference: NONHOLONOMIC SYSTEMS AND CONTROL

Type of participation: Invited speaker

City: Varsovia, Poland

Date: 2006

38 Title: HAMILTONIAN FORMALISM ON LIE AFFGEBROIDS: SOME ALTERNATIVE MODELS

Name of the conference: XIV FALL WORKSHOP ON GEOMETRY AND PHYSICS

Type of event: Conference

Type of participation: Invited speaker

City: Bilbao, Spain

Date: 2005

Organising institution: Universidad de Bilbao

Type: Article

J C Marrero; D Sosa. "HAMILTONIAN FORMALISM ON LIE AFFGEBROIDS: SOME ALTERNATIVE MODELS". En: *PUBL. RSME*. 10, pp. 211 - 217. 2006.

39 Title: LIE ALGEBROIDS AND SOME APPLICATIONS TO MECHANICS

Name of the conference: XX INTERNATIONAL WORKSHOP ON DIFFERENTIAL GEOMETRIC METHODS IN THEORETICAL MECHANICS

Type of participation: Invited speaker

City: Ghent, Belgium

Date: 2005

Organising institution: University of Ghent

40 Title: COMPATIBILITY BETWEEN LIE AFFGEBROID AND AFFINE JACOBI STRUCTURES ON AN AFFINE BUNDLE

Name of the conference: XIII FALL WORKSHOP ON GEOMETRY AND PHYSICS

Type of event: Conference

Type of participation: Poster

City: Murcia, Spain

Date: 2004

Organising institution: Universidad de Murcia

Type: Article

D Iglesias; J C Marrero; E Padrón; D Sosa. "COMPATIBILITY BETWEEN LIE AFFGEBROID AND AFFINE JACOBI STRUCTURES ON AN AFFINE BUNDLE". En: *PUB. RSME*. 9, pp. 227 - 232. 2005.

41 Title: CONSTRAINT ALGORITHM FOR SINGULAR FIELD THEORIES

Name of the conference: XIII FALL WORKSHOP ON GEOMETRY AND PHYSICS

Type of event: Conference

Type of participation: Poster

City: Murcia, Spain

Date: 2004

Organising institution: Universidad de Murcia

Type: Article

M de León; J Marín Solano; J C Marrero; M C Muñoz Lecanda; N Román Roy. "CONSTRAINT ALGORITHM FOR SINGULAR FIELD THEORIES". En: *PUB. RSME*. 9, pp. 233 - 239. 2005.



- 42** **Title:** TULCZYJEW'S TRIPLE ASSOCIATED WITH A LIE AFFGEBROID AND A HAMILTONIAN SECTION
Name of the conference: XII FALL WORKSHOP ON GEOMETRY AND PHYSICS
Type of event: Conference
Type of participation: Invited speaker
City: Murcia, Spain
Date: 2004
Organising institution: Universidad de Murcia
Type: Article
J C Marrero; D Sosa. "TULCZYJEW'S TRIPLE ASSOCIATED WITH A LIE AFFGEBROID AND A HAMILTONIAN SECTION". En: *PUB. RSME*. 9, pp. 66 - 79. 2005.
- 43** **Title:** SOME BASIC RESULTS ON DIRAC MANIFOLDS
Name of the conference: XVIII INTERNATIONAL WORKSHOP ON DIFFERENTIAL GEOMETRIC METHODS IN THEORETICAL MECHANICS
Type of participation: Invited speaker
City: Jaca, Zaragoza, Spain
Date: 2003
Organising institution: Universidad de Zaragoza
- 44** **Title:** ON LOCALLY CONFORMAL SYMPLECTIC GROUPOIDS
Name of the conference: XI FALL WORKSHOP ON GEOMETRY AND PHYSICS
Type of event: Conference
Type of participation: Invited speaker
City: Oviedo, Spain
Date: 2002
Organising institution: Universidad de Oviedo
Type: Article
D Iglesias; J C Marrero. "ON LOCALLY CONFORMAL SYMPLECTIC GROUPOIDS". En: *PUBL. RSME*. 6, pp. 93 - 102. 2004.
- 45** **Title:** JACOBI MANIFOLDS AND AFFINE BUNDLES
Name of the conference: XVII INTERNATIONAL WORKSHOP ON DIFFERENTIAL GEOMETRIC METHODS IN THEORETICAL MECHANICS
Type of participation: Invited speaker
City: Trento, Italy
Date: 2002
- 46** **Title:** BIALGEBROIDES DE LIE Y ESTRUCTURAS DE POISSON Y JACOBI
Name of the conference: MINISIMPOSIO RECIENTES AVANCES EN ALGEBROIDES DE LIE
Type of participation: Invited speaker
City: Pto. de la Cruz, Tenerife, Spain
Date: 2002
Organising institution: RSME
- 47** **Title:** LIE BIALGEBRODS, DIRAC STRUCTURES AND COURANT ALGEBROIDES
Name of the conference: XVI INTERNATIONAL WORKSHOP ON DIFFERENTIAL GEOMETRIC METHODS IN THEORETICAL MECHANICS
Type of event: Conference
Type of participation: Invited speaker
City: Bedlewo, Poland



Date: 2001

Organising institution: Institute of Mathematics, Polish Academy of Sciences

- 48** **Title:** LIE ALGEBROIDS, JACOBI STRUCTURES, AND LIE GROUPOIDS
Name of the conference: IX FALL WORKSHOP ON GEOMETRY AND PHYSICS
Type of event: Conference
Type of participation: Invited speaker
City: Vilanova de la Geltru, Spain
Date: 2000
Organising institution: Universitat Politècnica de Catalunya
Type: Article
D Iglesias; J C Marrero. "LIE ALGEBROIDS, JACOBI STRUCTURES, AND LIE GROUPOIDS". En: *PUB. RSME*. 3, pp. 89 - 106. 2001.
- 49** **Title:** TRIANGULAR GENERALIZED LIE BIALGEBROIDS: HOMOLOGY AND COHOMOLOGY THEORIES
Name of the conference: WORKSHOP ON LIE ALGEBROIDS AND RELATED TOPICS IN DIFFERENTIAL GEOMETRY
Type of event: Conference
Type of participation: Invited speaker
City: Varsovia, Poland
Date: 2000
Type: Article
D Iglesias; B López; J C Marrero; E Padrón. "TRIANGULAR GENERALIZED LIE BIALGEBROIDS: HOMOLOGY AND COHOMOLOGY THEORIES". En: *BANACH CENTER PUB*. 54, pp. 111 - 133. 2001.
- 50** **Title:** JACOBI-NIJENHUIS MANIFOLDS
Name of the conference: VIII ENCUESTRO DE OTOÑO SOBRE GEOMETRÍA Y FÍSICA
Type of event: Conference
Type of participation: Invited speaker
City: Medina del Campo, Valladolid, Spain
Date: 1999
Organising institution: Universidad de Valladolid
Type: Article
J C Marrero; J Monterde; E Padrón. "JACOBI-NIJENHUIS MANIFOLDS". En: *PUB. RSME*. 2, pp. 195 - 208. 2001.
- 51** **Title:** THE GEOMETRY OF THE PHASE SPACE OF A NON HOLONOMIC MECHANICAL SYSTEM
Name of the conference: VII ENCUESTRO DE OTOÑO SOBRE GEOMETRÍA Y FÍSICA
Type of event: Conference
Type of participation: Invited speaker
City: Valencia, Spain
Date: 1998
Organising institution: Universidad de Valencia
Type: Article
M de León; J C Marrero; D Martín de Diego. "THE GEOMETRY OF THE PHASE SPACE OF A NON HOLONOMIC MECHANICAL SYSTEM". En: *PUB. RSME*. 1, pp. 107 - 118. 2001.
- 52** **Title:** NAMBU-POISSON DYNAMICS
Name of the conference: 4TH MEETING ON CURRENT IDEAS IN MECHANICS AND RELATED FIELDS
Type of event: Conference
Type of participation: Speaker



City: Krakow, Poland

Date: 1997

Type: Article

R Ibáñez; M de León; J C Marrero; D Martín de Diego. "NAMBU-POISSON DYNAMICS". En: *ARCHIVES OF MECHANICS*. 50 - 3, pp. 405 - 413. 1998.

53 Title: REDUCTION OF NONHOLONOMIC MECHANICAL SYSTEMS WITH SYMMETRIES
Name of the conference: WORKSHOP ON NON-HOLONOMIC CONSTRAINTS IN DYNAMICS
Type of event: Conference

Type of participation: Invited speaker

City: Calgary, Canada

Date: 1997

Organising institution: University of Calgary

Type: Article

F Cantrijn; M de León; J C Marrero; D Martín de Diego. "REDUCTION OF NONHOLONOMIC MECHANICAL SYSTEMS WITH SYMMETRIES". En: *REP. MATH. PHYS.* 42, pp. 25 - 45. 1998.

54 Title: SOME GENERALIZATIONS OF POISSON AND JACOBI STRUCTURES
Name of the conference: 1ST INTERNATIONAL MEETING ON GEOMETRY AND TOPOLOGY
Type of event: Conference

Type of participation: Speaker

City: Braga, Portugal

Date: 1997

Organising institution: Universida do Minho

Type: Article

R Ibáñez; M de León; J C Marrero; D Martín de Diego; E Padrón. "SOME GENERALIZATIONS OF POISSON AND JACOBI STRUCTURES". En: *PUBL. CENTRO DE MATEMÁTICA, UNIV. DO MINHO*. pp. 119 - 130. 1998.

55 Title: A DIRAC BRACKET FOR NON-HOLONOMIC LAGRANGIAN SYSTEMS
Name of the conference: V ENCUENTRO DE OTOÑO SOBRE GEOMETRÍA DIFERENCIAL Y APLICACIONES A FÍSICA MATEMÁTICA

Type of event: Conference

Type of participation: Invited speaker

City: Jaca, Zaragoza, Spain

Date: 1996

Organising institution: Universidad de Zaragoza

Type: Article

A Ibort; M de León; J C Marrero; D Martín de Diego. "A DIRAC BRACKET FOR NON-HOLONOMIC LAGRANGIAN SYSTEMS". En: *MEMORIAS DE LA REAL ACADEMIA DE CIENCIAS EXACTAS, FISICAS Y NATURALES DE MADRID*. 32, pp. 85 - 101. 1998.

56 Title: A GENERALIZATION FOR JACOBI MANIFOLDS OF THE LICHNEROWICZ-POISSON COHOMOLOGY
Name of the conference: V ENCUENTRO DE OTOÑO SOBRE GEOMETRÍA DIFERENCIAL Y APLICACIONES A FÍSICA MATEMÁTICA

Type of event: Conference

Type of participation: Invited speaker

City: Jaca, Zaragoza, Spain

Date: 1996

Organising institution: Universidad de Zaragoza

Type: Article



M de León; J C Marrero; E Padrón. "A GENERALIZATION FOR JACOBI MANIFOLDS OF THE LICHNEROWICZ-POISSON COHOMOLOGY". En: *MEMORIAS DE LA REAL ACADEMIA DE CIENCIAS EXACTAS, FÍSICAS Y NATURALES DE MADRID*. 32, pp. 131 - 150. 1998.

57 Title: TIME-DEPENDENT MECHANICAL SYSTEMS WITH NON-LINEAR CONSTRAINTS

Name of the conference: CONFERENCE OF DIFF. GEOMETRY

Type of event: Conference

Type of participation: Speaker

City: Budapest, Hungary

Date: 1996

Type: Article

M de León; J C Marrero; D Martín de Diego. "TIME-DEPENDENT MECHANICAL SYSTEMS WITH NON-LINEAR CONSTRAINTS". En: *NEW DEVELOPMENTS IN DIFFERENTIAL GEOMETRY. KLUWER ACADEM. PUBL.* pp. 221 - 234. 1999.

58 Title: A GEOMETRICAL APPROACH TO CLASSICAL FIELD THEORIES: A CONSTRAINT ALGORITHM FOR SINGULAR THEORIES

Name of the conference: COLLOQUIUM ON DIFFERENTIAL GEOMETRY

Type of event: Conference

Type of participation: Speaker

City: Debrecen, Hungary

Date: 1994

Organising institution: University of Debrecen

Type: Article

M de León; J Marín Solano; J C Marrero. "A GEOMETRICAL APPROACH TO CLASSICAL FIELD THEORIES: A CONSTRAINT ALGORITHM FOR SINGULAR THEORIES". En: *NEW DEVELOPMENTS IN DIFFERENTIAL GEOMETRY. KLUWER ACADEM. PUBL.* pp. 291 - 312. 1996.

59 Title: EHRESMANN CONNECTIONS IN CLASSICAL FIELD THEORIES

Name of the conference: III FALL WORKSHOP: DIFFERENTIAL GEOMETRY AND ITS APPLICATIONS

Type of event: Conference

Type of participation: Invited speaker

City: Granada, Spain

Date: 1994

Organising institution: Universidad de Granada

Type: Article

M de León; J Marín Solano; J C Marrero. "EHRESMANN CONNECTIONS IN CLASSICAL FIELD THEORIES". En: *ANALES DE FÍSICA (MONOGRAFÍAS*. 2, pp. 73 - 89. 1994.

60 Title: ON A SPECIAL CLASS OF HERMITIAN MANIFOLDS

Name of the conference: DIFFERENTIAL GEOMETRY AND ITS APPLICATIONS

Type of event: Conference

Type of participation: Poster

City: OPAVA, Czech Republic

Date: 1992

Organising institution: Silesian University

Type: Article

J C Marrero; J Rocha. "ON A SPECIAL CLASS OF HERMITIAN MANIFOLDS". En: *DIFFERENTIAL GEOMETRY AND ITS APPLICATIONS, PROC. OPAVA, SILESIA UNIVERSITY, OPAVA*. pp. 377 - 386. 1993.



- 61** **Title:** DEGENERATE TIME-DEPENDENT LAGRANGIANS OF SECOND ORDER: THE FOURTH ORDER DIFFERENTIAL EQUATION PROBLEM
Name of the conference: DIFFERENTIAL GEOMETRY AND ITS APPLICATIONS
Type of event: Conference
Type of participation: Speaker
City: OPAVA, Czech Republic
Date: 1992
Organising institution: Silesian University
Type: Article
M de León; J C Marrero. "DEGENERATE TIME-DEPENDENT LAGRANGIANS OF SECOND ORDER: THE FOURTH ORDER DIFFERENTIAL EQUATION PROBLEM". En: *DIFFERENTIAL GEOMETRY AND ITS APPLICATIONS, PROC. OPAVA, SILESIA UNIVERSITY, OPAVA*. pp. 497 - 508. 1993.
- 62** **Title:** TIME-DEPENDENT LINEAR LAGRANGIANS: THE INVERSE PROBLEM, SYMMETRIES AND CONSTANTS OF MOTION
Name of the conference: INTERNATIONAL SYMPOSIUM ON HAMILTONIAN SYSTEMS AND CELESTIAL MECHANICS
Type of event: Conference
Type of participation: Invited speaker
City: GUANAJUATO, Mexico
Date: 1991
Organising institution: UNAM
Type: Article
M de León; J C Marrero. "TIME-DEPENDENT LINEAR LAGRANGIANS: THE INVERSE PROBLEM, SYMMETRIES AND CONSTANTS OF MOTION". En: *ADVANCES SERIES IN NONLINEAR DYNAMICS: HAMILTONIAN SYSTEMS AND CELESTIAL MECHANICS*. 4, pp. 55 - 83. 1993.
- 63** **Title:** CURVATURA ##SECCIONAL Y #-SECCIONAL SOBRE UNA VARIEDAD LOCALMENTE CONFORME COSIMPLÉCTICA
Name of the conference: XV JORNADAS LUSO-ESPANHOLAS DE MATEMÁTICAS
Type of event: Conference
Type of participation: Speaker
City: EVORA, Portugal
Date: 1990
Organising institution: Universidad de Evora
Type: Article
D China; J C Marrero. "CURVATURA ##SECCIONAL Y #-SECCIONAL SOBRE UNA VARIEDAD LOCALMENTE CONFORME COSIMPLÉCTICA". En: *ACTAS DE LAS XV JORNADAS LUSO-ESPANHOLAS DE MATEMÁTICAS*. III, pp. 143 - 148. 1990.
- 64** **Title:** THE CONSTRAINT ALGORITHM FOR DEGENERATE NON-AUTONOMOUS LAGRANGIAN SYSTEMS
Name of the conference: WORKSHOP RECENT TOPICS IN DIFFERENTIAL GEOMETRY
Type of event: Conference
Type of participation: Invited speaker
City: PTO DE LA CRUZ, TENERIFE, Spain
Date: 1990
Organising institution: Universidad de La Laguna
Type: Article
D China; M de León; J C Marrero. "THE CONSTRAINT ALGORITHM FOR DEGENERATE NON-AUTONOMOUS LAGRANGIAN SYSTEMS". En: *SECRET. PUBL. UNIV. LA LAGUNA, SERIES INFORMES*. 32, pp. 13 - 29. 1991.



- 65** **Title:** CONDICIONES GEOMÉTRICAS PARA QUE UNA VARIEDAD L.C.C. SEA COSIMPLÉCTICA
Name of the conference: XIV JORNADAS HISPANO-LUSAS DE MATEMÁTICAS
Type of event: Conference
Type of participation: Speaker
City: PTO. DE LA CRUZ, TENERIFE, Spain
Date: 1989
Organising institution: Universidad de La Laguna
Type: Article
 D China; J C Marrero. "CONDICIONES GEOMÉTRICAS PARA QUE UNA VARIEDAD L.C.C. SEA COSIMPLÉCTICA". En: *ACTAS XIV JORNADAS HISPANO-LUSAS DE MATEMÁTICAS, SECRET. PUBL. UNIV. LA LAGUNA*. II, pp. 597 - 601.
- 66** **Title:** SOBRE VARIEDADES TRANS-SASAKIANAS
Name of the conference: XIV JORNADAS HISPANO-LUSAS DE MATEMÁTICAS
Type of event: Conference
Type of participation: Speaker
City: PTO. DE LA CRUZ, TENERIFE, Spain
Date: 1989
Organising institution: Universidad de La Laguna
Type: Article
 D China; J C Marrero. "SOBRE VARIEDADES TRANS-SASAKIANAS". En: *ACTAS XIV JORNADAS HISPANO-LUSAS DE MATEMÁTICAS, SECRET. PUBL. UNIV. LA LAGUNA*. II, pp. 655 - 659. 1989.
- 67** **Title:** CAMBIOS CONFORMES EN VARIEDADES CASI CONTACTO
Name of the conference: XIII JORNADAS HISPANO-LUSAS DE MATEMÁTICAS
City: Valladolid, Spain
Date: 1988
Organising institution: Universidad de Valladolid
City: Valladolid, Spain
 D China; J C Marrero.

Other publishing activities

- 1** **Title or object:** LAS MATEMATICAS DEL SISTEMA SOLAR
Name of the event: ¿QUE SABEMOS DE ...?
Date: 2009
Organising institution: CSIC Y LA CATARATA **Type of institution:** Agencia Estatal y Editorial de libros
Type: Book
 M de León; J C Marrero; D Martín de Diego. "LAS MATEMATICAS DEL SISTEMA SOLAR". En: *Los Libros de la Catarata*, 3. 2009. ISBN 978-84-00-08823-1
- 2** **Title or object:** GEOMETRIA SIMPLECTICA Y CIENCIA
Name of the event: UN PASEO POR LA GEOMETRIA 2001/02
Date: 2002
Organising institution: UNIVERSIDAD DEL PAIS VASCO
 J C Marrero. "GEOMETRIA SIMPLECTICA Y CIENCIA". En: *Publicaciones del Departamento de Matemáticas de la Universidad del Pais Vasco*. pp. 183 - 201.



- 3** **Title or object:** GEOMETRIA SIMPLECTICA ¿SOLO UNA TEORIA MATEMATICA MAS?
Name of the event: LAS MATEMATICAS DEL SIGLO XX. UNA MIRADA EN 101 ARTICULOS
Date: 2000
Organising institution: SOCIEDAD CANARIA ISAAC NEWTON DE PROFESORES DE MATEMATICAS Y DE NIVOLA LIBROS Y EDCIONES S L
Type: Article
 J C Marrero. "GEOMETRIA SIMPLECTICA ¿SOLO UNA TEORIA MATEMATICA MAS?". En: *Números*. 43/44, pp. 89 - 92. 2000.
- 4** **Title or object:** LA LINEA RECTA ES EL CINCEL (SUPERFICIES REGLADAS)
Name of the event: FOTOGRAFIANDO LAS MATEMATICAS
Field of the event: Internacional
Date: 2000
Organising institution: CARROGIO S A EDICIONES
Type: Chapters of books
 J C Marrero. "LA LINEA RECTA ES EL CINCEL (SUPERFICIES REGLADAS)". En: *Fotografiando las Matemáticas*. Carrogio S.A. Ediciones, 2000. ISBN 978-84-7254-800-8

Experience in R&D&I management and participation in scientific committees

Scientific advisory committees, scientific societies

- 1** **Committee title:** Comité Científico de la VI International Summer School on Geometry, Mechanics and Control
Institution which it depends on: INSTITUTO DE CIENCIAS MATEMATICAS **Type of institution:** State agency
City: Madrid, Spain
Start date: 2013
- 2** **Committee title:** Comité Científico del XXII International Fall Workshop on Geometry and Physics
Institution which it depends on: Universidad de Evora
City: Evora, Portugal
Start date: 2013
- 3** **Committee title:** Comité Científico de la V International Summer School on Geometry, Mechanics and Control
Primary (UNESCO code): 120000 - Mathematics
Secondary (UNESCO code): 220000 - Physics
Institution which it depends on: INSTITUTO DE CIENCIAS MATEMATICAS **Type of institution:** State agency
City: Madrid, Spain
Start date: 2012
- 4** **Committee title:** Comité Científico del XXI International Fall Workshop on Geometry and Physics
Institution which it depends on: Universidad de Burgos
City: Burgos, Spain
Start date: 2012



- 5** **Committee title:** Comité Científico del Segundo Encuentro Iberoamericano sobre Geometría, Mecánica y Control”
Primary (UNESCO code): 120000 - Mathematics
Secondary (UNESCO code): 220000 - Physics
Institution which it depends on: Universidad de Cuyo
City: Bariloche, Argentina
Start date: 2011
- 6** **Committee title:** Comité Científico del XX International Fall Workshop on Geometry and Physics
Primary (UNESCO code): 120000 - Mathematics
Secondary (UNESCO code): 220000 - Physics
Institution which it depends on: INSTITUTO DE CIENCIAS MATEMATICAS
Type of institution: State agency
City: Madrid, Spain
Start date: 2011
- 7** **Committee title:** Editorial Board de la revista Unión Matemática Argentina”
Primary (UNESCO code): 120000 - Mathematics
Institution which it depends on: Unión Matemática Argentina
Start date: 2011
- 8** **Committee title:** Comité Científico del XIX International Fall Workshop on Geometry and Physics
Primary (UNESCO code): 120000 - Mathematics
Secondary (UNESCO code): 220000 - Physics
Institution which it depends on: Universidad de Oporto
City: Oporto, Portugal
Start date: 2010
- 9** **Committee title:** Comité Científico de la IV International Summer School on Geometry, Mechanics and Control
Primary (UNESCO code): 120000 - Mathematics
Secondary (UNESCO code): 220000 - Physics
Institution which it depends on: Universidad de Santiago de Compostela
Start date: 2010
- 10** **Committee title:** Comité Científico del Semestre Temático sobre Métodos Geométricos para Control Óptimo”
Primary (UNESCO code): 120000 - Mathematics
Secondary (UNESCO code): 220000 - Physics
Institution which it depends on: CSIC, Universidad de Santiago de Compostela y Universidad de La Laguna
Start date: 2010
- 11** **Committee title:** Guest Editor of the Special Issue of Discrete and Continuous Dynamical Systems - Series S on Nonholonomic Constraints in Mechanics and Optimal Control Theory, Vol. 3 (2010)
Primary (UNESCO code): 120000 - Mathematics
Secondary (UNESCO code): 220000 - Physics
Institution which it depends on: American Institute of Mathematical Sciences
Start date: 2010



- 12** **Committee title:** Comité Científico de la III International Summer School on Geometry, Mechanics and Control
Primary (UNESCO code): 120000 - Mathematics
Secondary (UNESCO code): 220000 - Physics
Institution which it depends on: Universitat Politècnica de Catalunya
Start date: 2009
- 13** **Committee title:** Comité Científico del XVIII International Workshop on Geometry and Physics
Primary (UNESCO code): 120000 - Mathematics
Secondary (UNESCO code): 220000 - Physics
Institution which it depends on: Universidad de Zaragoza
Start date: 2009
- 14** **Committee title:** Editorial Board de la revista Extracta Mathematicae”
Primary (UNESCO code): 120000 - Mathematics
Institution which it depends on: Universidad de Extremadura
Start date: 2009
- 15** **Committee title:** Comité Científico de la II International Summer School on Geometry, Mechanics and Control
Primary (UNESCO code): 120000 - Mathematics
Secondary (UNESCO code): 220000 - Physics
Institution which it depends on: Universidad de La Laguna
Start date: 2008
- 16** **Committee title:** Comité Científico del Primer Encuentro Iberoamericano sobre Geometría, Mecánica y Control”
Primary (UNESCO code): 120000 - Mathematics
Secondary (UNESCO code): 220000 - Physics
Institution which it depends on: Universidad de Santiago de Compostela
Start date: 2008
- 17** **Committee title:** Comité Científico del XVII International Workshop on Geometry and Physics
Primary (UNESCO code): 120000 - Mathematics
Secondary (UNESCO code): 220000 - Physics
Institution which it depends on: Universidad de Cantabria
Start date: 2008
- 18** **Committee title:** Comité Científico del XXIIIrd International Workshop in Differential Geometric Methods in Theoretical Mechanics
Primary (UNESCO code): 120000 - Mathematics
Secondary (UNESCO code): 220000 - Physics
Institution which it depends on: Institute of Mathematics, University of Debrecen
City: Debrecen, Hungary
Start date: 2008
- 19** **Committee title:** Editorial Board de la revista Advances in Mathematical Physics”
Primary (UNESCO code): 120000 - Mathematics
Secondary (UNESCO code): 220000 - Physics
Institution which it depends on: Hindawi Publishing Corporation
Start date: 2008



- 20** **Committee title:** Editorial Board de la revista Journal of Geometric Mechanics”
Primary (UNESCO code): 120000 - Mathematics
Secondary (UNESCO code): 220000 - Physics
Institution which it depends on: AIMS (American Institute of Mathematical Sciences)
Start date: 2008
- 21** **Committee title:** Comité Científico de la I Summer School on Geometry, Mechanics and Control
Primary (UNESCO code): 120000 - Mathematics
Secondary (UNESCO code): 220000 - Physics
Institution which it depends on: Red Temática de Geometría, Mecánica y Control **Type of institution:** Associations and Groups
Start date: 2007
- 22** **Committee title:** Comité Científico del 22th International Workshop on Differential Geometric Methods in Theoretical Mechanics
Primary (UNESCO code): 120000 - Mathematics
Secondary (UNESCO code): 220000 - Physics
Institution which it depends on: Academia de Ciencias de Polonia
Start date: 2007
- 23** **Committee title:** Comité Científico del XVI International Workshop on Geometry and Physics
Primary (UNESCO code): 120000 - Mathematics
Secondary (UNESCO code): 220000 - Physics
Institution which it depends on: Instituto Superior Técnico
City: Lisboa, Portugal
Start date: 2007
- 24** **Committee title:** Guest Editor del número especial de la revista SIGMA, Vol. 3 que contiene los proceedings del Workshop on Geometric Aspects of Integrable Systems (Julio 2006, University of Coimbra, Portugal)
Primary (UNESCO code): 120000 - Mathematics
Secondary (UNESCO code): 220000 - Physics
Institution which it depends on: Universidad de Coimbra
City: Coimbra, Portugal
Start date: 2007
- 25** **Committee title:** Advisory Panel de la Revista J. Phys. A:Mathematical and Theoretical
Primary (UNESCO code): 120000 - Mathematics
Secondary (UNESCO code): 220000 - Physics
Institution which it depends on: Institute of Physics
Start date: 2006
- 26** **Committee title:** Comité Científico del Workshop Geometric aspects of integrable systems
Primary (UNESCO code): 120000 - Mathematics
Secondary (UNESCO code): 220000 - Physics
Institution which it depends on: Universidad de Coimbra
City: Coimbra, Portugal
Start date: 2006



- 27** **Committee title:** Comité Científico del XV Fall Workshop on Geometry and Physics
Primary (UNESCO code): 120000 - Mathematics
Secondary (UNESCO code): 220000 - Physics
Institution which it depends on: Universidad de La Laguna
Start date: 2006
- 28** **Committee title:** Comité Científico del XIV International Workshop on Geometry and Physics
Primary (UNESCO code): 120000 - Mathematics
Secondary (UNESCO code): 220000 - Physics
Institution which it depends on: Universidad del País Vasco
Start date: 2005
- 29** **Committee title:** Comité Científico del 19th International Workshop on Differential Geometric Methods in Theoretical Mechanics
Primary (UNESCO code): 120000 - Mathematics
Secondary (UNESCO code): 220000 - Physics
Institution which it depends on: Academia de Ciencias de Polonia
Start date: 2004
- 30** **Committee title:** Comité Científico del XIII Fall Workshop on Geometry and Physics
Primary (UNESCO code): 120000 - Mathematics
Secondary (UNESCO code): 220000 - Physics
Institution which it depends on: Universidad de Murcia
Start date: 2004
- 31** **Committee title:** Comité Científico del XII International Workshop on Geometry and Physics
Primary (UNESCO code): 120000 - Mathematics
Secondary (UNESCO code): 220000 - Physics
Institution which it depends on: Universidad de Coimbra
Start date: 2003
- 32** **Committee title:** Comité Científico del XI International Workshop on Geometry and Physics
Primary (UNESCO code): 120000 - Mathematics
Secondary (UNESCO code): 220000 - Physics
Institution which it depends on: Universidad de Oviedo
Start date: 2002

Experience organising R&D&I activities

- 1** **Title:** 15TH INTERNATIONAL WORKSHOP ON DIFFERENTIAL GEOMETRIC METHODS IN THEORETICAL MECHANICS
Type of activity: CONGRESO
Convening institution: Universidad de La Laguna
City: Santa Úrsula, Canary Islands, Spain
Start date: 20/08/2000
End date: 27/08/2000
- 2** **Title:** JORNADAS I-MATH: REDES TEMATICAS ESPAÑOLAS EN EL AMBITO DE LAS MATEMÁTICAS
Type of activity: JORNADAS
Convening institution: I-MATH
Area of the activity: National
Type of institution: Proyecto Consolider



City: Castro-Urdiales, Cantabria, Spain

Start date: 09/2011

- 3** **Title:** V INTERNATIONAL SUMMER SCHOOL ON GEOMETRY, MECHANICS AND CONTROL
Type of activity: ESCUELA DE FORMACIÓN **Area of the activity:** INTERNACIONAL
Convening institution: Red Temática de Geometría Mecánica y Control **Type of institution:** Red Temática
City: La Cristalera, Madrid, Spain
Start date: 07/2011
- 4** **Title:** IBERIAMERICAN MEETING ON GEOMETRY, MECHANICS, AND CONTROL
Type of activity: CONGRESO **Area of the activity:** INTERNACIONAL
Convening institution: Instituto Balseiro
City: Bariloche, Argentina
Start date: 01/2011
- 5** **Title:** SEMINARIO DE ESPECIALIZACIÓN EN GEOMETRÍA Y TOPOLOGÍA
Type of activity: SEMINARIO DE ESPECIALIZACIÓN **Area of the activity:** Regional
Convening institution: Departamento de Matemática Fundamental, Universidad de La Laguna
City: La Laguna, Canary Islands, Spain
Start date: 2011, 1 year
- 6** **Title:** V INTERNATIONAL YOUNG RESEARCHERS WORKSHOP ON GEOMETRY, MECHANICS, AND CONTROL
Type of activity: CONGRESO **Area of the activity:** INTERNACIONAL
Convening institution: Red Temática de Geometría, Mecánica y Control **Type of institution:** Red Temática
City: La Laguna, Canary Islands, Spain
Start date: 12/2010
- 7** **Title:** IV INTERNATIONAL SUMMER SCHOOL ON GEOMETRY, MECHANICS AND CONTROL
Type of activity: ESCUELA DE FORMACIÓN **Area of the activity:** INTERNACIONAL
Convening institution: Red Geometría, Mecánica y Teoría de Control
City: Santiago de Compostela, Galicia, Spain
Start date: 07/2010
- 8** **Title:** SEMINARIO DE ESPECIALIZACIÓN EN GEOMETRÍA Y TOPOLOGÍA
Type of activity: SEMINARIO DE ESPECIALIZACIÓN **Area of the activity:** Regional
Convening institution: Departamento de Matemática Fundamental, Universidad de La Laguna
City: La Laguna, Canary Islands, Spain
Start date: 2010, 1 year
- 9** **Title:** III INTERNATIONAL SUMMER SCHOOL ON GEOMETRY, MECHANICS AND CONTROL
Type of activity: ESCUELA DE FORMACIÓN **Area of the activity:** INTERNACIONAL
Convening institution: Red Temática Geometría, Mecánica y Control **Type of institution:** Red Temática
City: LAmetlla del Mar, Catalonia, Spain
Start date: 06/2009



- 10** **Title:** SEMINARIO DE ESPECIALIZACIÓN EN GEOMETRÍA Y TOPOLOGÍA
Type of activity: SEMINARIO DE ESPECIALIZACIÓN **Area of the activity:** Regional
Convening institution: Departamento de Matemática Fundamental, Universidad de La Laguna
City: La Laguna, Canary Islands, Spain
Start date: 2009, 1 year
- 11** **Title:** ENCUENTRO IBEROAMERICANO SOBRE GEOMETRÍA DIFERENCIAL Y SUS APLICACIONES (CIMAC)
Type of activity: CONGRESO **Area of the activity:** INTERNACIONAL
Convening institution: CIMAC **Type of institution:** Foundation
City: La Laguna,
Start date: 06/2008
- 12** **Title:** I ENCUENTRO IBEROAMERICANO DE GEOMETRÍA, MECÁNICA Y CONTROL
Type of activity: CONGRESO **Area of the activity:** INTERNACIONAL
Convening institution: Red Geometría, Mecánica y Control **Type of institution:** Red temática
City: Santiago de Compostela, Galicia, Spain
Start date: 06/2008
- 13** **Title:** II INTERNATIONAL SUMMER SCHOOL ON GEOMETRY, MECHANICS AND CONTROL
Type of activity: ESCUELA DE FORMACIÓN **Area of the activity:** INTERNACIONAL
Convening institution: Red Temática Geometría, Mecánica y Control **Type of institution:** Red Temática
City: Santa Cruz de La Palma, Canary Islands, Spain
Start date: 06/2008
- 14** **Title:** NONHOLONOMIC CONSTRAINTS IN MECHANICS AND OPTIMAL CONTROL THEORY
Type of activity: MINISIMPOSIUM EN EL 7 TH AIMS INTERNATIONAL CONFERENCE ON DYNAMICAL SYSTEMS, DIFFERENTIAL EQUATIONS AND APPLICATIONS **Area of the activity:** INTERNACIONAL
Convening institution: American Institute of Mathematical Sciences
City: Arlington, Texas, United States of America
Start date: 05/2008
- 15** **Title:** JORNADAS DE MECÁNICA GEOMÉTRICA
Type of activity: JORNADAS **Area of the activity:** INTERNACIONAL
Convening institution: Universidad de La Laguna
City: La Laguna, Canary Islands, Spain
Start date: 04/2008
- 16** **Title:** PROGRAMA INTENSIVO DE INVESTIGACION MECANICA GEOMETRICA Y TEORIA DE CONTROL
Type of activity: SEMESTRE DE INVESTIGACION **Area of the activity:** Internacional
Convening institution: Red Temática de Geometría, Mecánica y Control **Type of institution:** Red Temática
City: Zaragoza, Madrid, Sta. Cruz de La Palma (Tenerife), Spain
Start date: 2008, 6 months



- 17** **Title:** SPECIAL SESSION ON NEW GEOMETRICAL TOOLS IN MECHANICS
Type of activity: MINISIMPOSIUM EN EL XXII INTERNATIONAL WORKSHOP ON DIFFERENTIAL GEOMETRIC METHODS IN THEORETICAL MECHANICS
Area of the activity: INTERNACIONAL
Convening institution: Institute of Mathematics, Polish Academy of Sciences
City: BEDLEWO, Poland
Start date: 09/2007
- 18** **Title:** I INTERNATIONAL SUMMER SCHOOL ON GEOMETRY, MECHANICS AND CONTROL
Type of activity: ESCUELA DE FORMACIÓN
Area of the activity: INTERNACIONAL
Convening institution: Red Temática de Geometría , Mecánica y Control
Type of institution: Red Temática
City: Castro-Urdiales, Cantabria, Spain
Start date: 06/2007
- 19** **Title:** SEMINARIO DE ESPECIALIZACIÓN EN GEOMETRÍA Y TOPOLOGÍA
Type of activity: SEMINARIO DE ESPECIALIZACIÓN
Area of the activity: Regional
Convening institution: Departamento de Matemática Fundamental, Universidad de La Laguna
City: La Laguna, Canary Islands, Spain
Start date: 2007, 1 year
- 20** **Title:** XV INTERNATIONAL WORKSHOP ON GEOMETRY AND PHYSICS
Type of activity: Congreso Satélite de ICM2006
Area of the activity: INTERNACIONAL
Convening institution: Universidad de La Laguna
City: Puerto de la Cruz, Canary Islands, Spain
Start date: 09/2006
- 21** **Title:** SEMINARIO DE ESPECIALIZACIÓN EN GEOMETRÍA Y TOPOLOGÍA
Type of activity: SEMINARIO DE ESPECIALIZACIÓN
Area of the activity: Regional
Convening institution: Departamento de Matemática Fundamental, Universidad de La Laguna
City: La Laguna, Canary Islands, Spain
Start date: 2006, 1 year
- 22** **Title:** SPECIAL SESSION ON LIE ALGEBROIDS AND APPLICATIONS
Type of activity: MINISIMPOSIUM EN EL XX INTERNATIONAL WORKSHOP ON DIFFERENTIAL GEOMETRIC METHODS IN THEORETICAL MECHANICS
Area of the activity: INTERNACIONAL
Convening institution: Universidad de Ghent
City: GHENT, Belgium
Start date: 09/2005
- 23** **Title:** JORNADAS DE GEOMETRÍA Y MECÁNICA
Type of activity: JORNADAS CIENTIFICAS
Area of the activity: National
Convening institution: Universidad de La Laguna
City: La Laguna, Canary Islands, Spain
Start date: 10/2004



- 24** **Title:** SEMINARIO DE ESPECIALIZACIÓN EN GEOMETRÍA Y TOPOLOGÍA
Type of activity: SEMINARIO DE ESPECIALIZACIÓN **Area of the activity:** Regional
Convening institution: Departamento de Matemática Fundamental, Universidad de La Laguna
City: La Laguna, Canary Islands, Spain
Start date: 2004, 1 year
- 25** **Title:** SPECIAL SESSION ON JACOBI MANIFOLDS
Type of activity: MINISIMPOSIUM EN EL XVII INTERNATIONAL WORKSHOP ON DIFFERENTIAL GEOMETRIC METHODS IN THEORETICAL MECHANICS **Area of the activity:** INTERNACIONAL
Convening institution: Universidad de Trento
City: LEVICO TERME, Italy
Start date: 09/2002
- 26** **Title:** RECIENTES AVANCES EN ALGEBROIDES DE LIE
Type of activity: MINISIMPOSIUM EN EL CONGRESO RSME2002 **Area of the activity:** European Union
Convening institution: REAL SOCIEDAD MATEMATICA ESPAÑOLA
City: Pto de la Cruz, Canary Islands, Spain
Start date: 30/01/2002, 1 day
- 27** **Title:** SPECIAL SESSION ON MULTISYMPLECTIC GEOMETRY
Type of activity: MINISIMPOSIUM EN EL XV INTERNATIONAL WORKSHOP ON DIFFERENTIAL GEOMETRIC METHODS IN THEORETICAL MECHANICS **Area of the activity:** INTERNACIONAL
Convening institution: Universidad de La Laguna
City: STA URSULA, Canary Islands, Spain
Start date: 2000, 7 days
- 28** **Title:** SEMINARIO DE ESPECIALIZACIÓN EN GEOMETRÍA Y TOPOLOGÍA
Type of activity: SEMINARIO DE ESPECIALIZACIÓN **Area of the activity:** Regional
Convening institution: Departamento de Matemática Fundamental, Universidad de La Laguna
City: La Laguna,
Start date: 1995, 1 year

Experience in assessment and review of R&D&I projects and articles

- 1** **Responsibility held:** EVALUADOR DE LA AGENCIA NACIONAL DE EVALUACION Y PROSPECTIVA (ANEP)
- 2** **Responsibility held:** EVALUADOR DE LA AGENCIA NACIONAL DE PROMOCIÓN CIENTÍFICA Y TECNOLÓGICA DE ARGENTINA
- 3** **Responsibility held:** EVALUDOR DE PROYECTOS DEL PLAN GALLEGO DE I+D+I (INCITE)



- 4 Responsibility held:** Evaluador del international fellowship programme IMPACT del Mathematical Institute of Polish Academy of Sciences, Warsaw, Poland
- 5 Responsibility held:** REFEREE DE LA AGENCIA ANDALUZA DE EVALUACION DE LA CALIDAD Y ACREDITACION UNIVERSITARIA
- 6 Responsibility held:** REFEREE DE LAS SIGUIENTES REVISTAS CIENTIFICAS Y CONGRESOS: J Math Phys, Extracta Mathematicae, J Phys A: Math And Theoret, Reports on Math Phys, Advances in Computational Math, Central European J Math, J Algebra and its Applications, Note di Matematica, SIGMA, International Fall Workshop on Geometry and Physics (Congreso), Banach Center Publications (Congreso), Rev. Di Mat. Univ. Parma, Journal of Math. Anal. and Appl, Mathematical Proceedings of the Royal Irsih Academy, Differential Geometry and its Applications, Boletín de la Sociedad Matemática Mexicana, Journal of Geometric Mechanics, Physica Scripta, Geometriae Dedicata, Carpatian J Mathematics, Revista Matemática Complutense, Quaestiones Mathematicae, Revista de la Real Academia de Ciencias Exactas, Físicas y Naturales: Serie A, Matemáticas, Abstract and Applied Analysis, Geometric and Functional Analysis, J Geom. Phys., Proceedings of the Royal Society of London, Serie A: Math Phys and Engineering

Other achievements

Stays in public or private R&D&I centres

- 1 institution:** UPC **Type of institution:** University
City: Barcelona, Spain
Start date: 2013, 7 days
Aims of the stay: Guest
Provable tasks: Investigación sobre reducción de variedades polisimplécticas
- 2 institution:** UNIVERSIDADE DE COIMBRA
City: Coimbra, Portugal
Start date: 2013, 7 days
Aims of the stay: Guest
Provable tasks: Investigación sobre reducción de variedades de Poisson
- 3 institution:** UAM Y UNAM **Type of institution:** University
City: México D F, Mexico
Start date: 2012, 14 days
Aims of the stay: Guest
Provable tasks: Investigación sobre equilibrios relativos en el problema de n cuerpos en espacios hiperbólicos
- 4 institution:** UNIVERSIDAD DE COIMBRA
City: Coimbra, Portugal
Start date: 2012, 7 days
Aims of the stay: Guest
Provable tasks: Investigación sobre reducción de algebroides de Lie simplécticos



- 5** **institution:** ECOLE POLYTECHNIQUE FEDERALE DE LAUSANNE **Type of institution:** Escuela Politécnica DE LAUSANNE
City: Lausanne, Switzerland
Start date: 2010, 1 month
Aims of the stay: Guest
Provable tasks: Investigación sobre volúmenes invariantes en Mecánica no-holónoma
- 6** **institution:** INSTITUTO NACIONAL DE MATEMATICA PURA E APLICADA
City: Rio de Janeiro, Brazil
Start date: 2010, 1 month
Aims of the stay: Guest
Provable tasks: Investigación sobre sistemas completamente integrables no-holónomos y teoría de Hamilton-Jacobi
- 7** **institution:** UNIVERSIDAD DE ZARAGOZA, IUMA **Type of institution:** University Research Institute
City: Zaragoza, Spain
Start date: 2009, 2 months
Aims of the stay: Guest
Provable tasks: Investigación sobre Mecánica Discreta y grupoides de Lie
- 8** **institution:** ECOLE POLYTECHNIQUE FEDERALE DE LAUSANNE **Type of institution:** Escuela Politécnica DE LAUSANNE
City: Lausanne, Switzerland
Start date: 2009, 7 days
Aims of the stay: Guest
Provable tasks: Investigación sobre volúmenes invariantes en Mecánica no-holónoma
- 9** **institution:** INSTITUTO NACIONAL DE MATEMATICA PURA E APLICADA
City: Rio de Janeiro, Brazil
Start date: 2009, 14 days
Aims of the stay: Guest
Provable tasks: Investigación sobre Teoría de Hamilton-Jacobi y Mecánica no-holónoma
- 10** **institution:** INSTITUTE OF MATHEMATICS (POLISH ACADEMY OF SCIENCES)
City: Varsovia, Poland
Start date: 2009, 7 days
Aims of the stay: Guest
Provable tasks: Investigación sobre la Geometría de las ligaduras y el Control
- 11** **institution:** INSTITUTE OF MATHEMATICS (POLISH ACADEMY OF SCIENCES)
City: Varsovia, Poland
Start date: 2008, 7 days
Aims of the stay: Guest
Provable tasks: Investigación sobre la Geometría de las ligaduras y el Control
- 12** **institution:** INSTITUTO DE MATEMÁTICAS Y FÍSICA FUNDAMENTAL, CSIC
City: Madrid, Spain
Start date: 2007, 1 month
Aims of the stay: Guest
Provable tasks: Investigación sobre Mecánica Geométrica y algebroides de Lie



Recognitions, distinctions and awards received throughout the career

Description: PREMIO EXTRAORDINARIO DE FIN DE CARRERA EN MATEMATICAS CORRESPONDIENTE AL CURSO 1986-87

Conferring institution: Universidad de La Laguna

Conferral date: 1987

Number of recognised research periods

1 Number of recognised periods: 1

Conferring institution: COMISION NACIONAL EVALUADORA DE LA ACTIVIDAD INVESTIGADORA

Date of recognition: 2011

2 Number of recognised periods: 1

Conferring institution: COMISION NACIONAL EVALUADORA DE LA ACTIVIDAD INVESTIGADORA

Date of recognition: 2005

3 Number of recognised periods: 1

Conferring institution: COMISION NACIONAL EVALUADORA DE LA ACTIVIDAD INVESTIGADORA

Date of recognition: 1999

4 Number of recognised periods: 1

Conferring institution: COMISION NACIONAL EVALUADORA DE LA ACTIVIDAD INVESTIGADORA

Date of recognition: 1993

Summary of other achievements

1 **Description of the achievement:** CURSO DE TERCER CICLO SOBRE EL CUERPO RIGIDO Y EL TEOREMA DE REDUCCION LIE-POISSON EN EL PROGRAMA DE DOCTORADO DE MATEMATICA APLICADA. FECHA: 07/2004

Accrediting institution: Universitat Politècnica de Catalunya

2 **Description of the achievement:** DIRECTOR DE BECA FPU OBTENIDA POR D IGLESIAS PONTE. DURACION DE LA BECA 2000-2003

Accrediting institution: Universidad de La Laguna

3 **Description of the achievement:** DIRECTOR DE BECA JAE-PREDOCTORAL (CSIC) OBTENIDA POR ELISA LAVINIA GUZMAN ALONSO. DURACION DE LA BECA: SEPTIEMBRE 2009 - SEPTIEMBRE 2013

Accrediting institution: Universidad de La Laguna

4 **Description of the achievement:** DIRECTOR DE LA BECA CAJA-CANARIAS PARA POSGRADUADOS OBTENIDA POR MONICA AYMERICH VALLS. DURACION DE LA BECA: FEBRERO 2011 - FEBRERO 2012

Accrediting institution: Universidad de La Laguna

5 **Description of the achievement:** IMPARTIR ASIGNATURA DE MECANICA GEOMETRICA EN LOS CURSOS 2008/09, 2009/10 Y 2010/11 EN EL MASTER OFICIAL MATEMATICA AVANZADA: APLICACIONES Y EDUCACION



Accrediting institution: Universidad de La Laguna

6 **Description of the achievement:** IMPARTIR ASIGNATURAS DE TERCER CICLO DESDE EL CURSO 1990/91 HASTA EL CURSO 2007/08

Accrediting institution: Universidad de La Laguna

7 **Description of the achievement:** TUTOR EN EL PROGRAMA INTERCAMPUS DE LA ALUMNA MABEL NOEMI AVIO IPUCHE. PERIODO: ENERO 1996 - MARZO 1996

Accrediting institution: Universidad de La Laguna