



Rafael M^a Rubio Ruiz

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**C****V****N**

CURRÍCULUM VÍTAE NORMALIZADO

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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.

**Rafael M^a Rubio Ruiz**

Surname(s): **Rubio Ruiz**
Name: **Rafael M^a**

Current professional situation

Employing entity: Universidad de Córdoba **Type of entity:** University
Department: Matemáticas, Facultad de Ciencias
Professional category: Profesor Titular de Universidad
Start date: 28/03/2015
Type of contract: Civil servant **Dedication regime:** Full time
Primary (UNESCO code): 120000 - Mathematics
Secondary (UNESCO code): 120400 - Geometry
Tertiary (UNESCO code): 129900 - Other mathematical specialities
Identify key words: Mathematics; Physics & space science



Education

University education

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

Name of qualification: Licenciado en Ciencias-Matematicas

Degree awarding entity: Universidad de Málaga

Type of entity: University

Date of qualification: 02/09/1991

Doctorates

Doctorate programme: Algebra, Geometría y Topología

Degree awarding entity: Universidad de Málaga

Type of entity: University

Date of degree: 01/06/1997

Thesis title: Acciones de R^n y estructuras de contacto

Thesis director: Francisco Javier Turiel Sandín

Obtained qualification: apto cum lauden

Teaching experience

Experience supervising doctoral thesis and/or final year projects

- 1 Project title:** The Classical Calabi-Bernstein Theorem: Recent Proofs and a New Extension
Type of project: Work leading to an ASD
Entity: Universidad de Granada **Type of entity:** University
Student: José Antonio Sánchez Pelegrín
Date of reading: 21/09/2015
- 2 Project title:** Uniqueness of maximal hypersurfaces in open spacetimes and Calabi-Bersntein type Theoremn
Entity: UNIVERSIDAD DE GRANADA **Type of entity:** University
Student: Juan Jesús Salamanca Jurado
Obtained qualification: Sobresaliente Cum Laude
Date of reading: 25/05/2015
Quality recognition: Yes
- 3 Project title:** Paraboliticidad y curvatura media de hipersuperficies espaciales en espacio-tiempos
Type of project: Work leading to an ASD
Co-director of thesis: Alfonso Romero Sarabia
Entity: Universidad de Granada **Type of entity:** University
Student: Juan Jesús Salamanca Jurado
Obtained qualification: 10
Identify key words: Geometry; Physics & space science



Date of reading: 13/12/2011

4 Project title: Hipersuperficies espaciales de curvatura media constante

Type of project: Minor thesis

Entity: Universidad de Córdoba

Student: Juan Jesús Salamanca Jurado

Obtained qualification: Sobresaliente

Date of reading: 23/09/2011

5 Project title: Una lógica modal para la geometría esférica de incidencia

Type of project: Doctoral thesis

Entity: Universidad de Córdoba

Type of entity: University

Student: Alfonso Rider Moyano

Obtained qualification: Sobresaliente cum Laude

Date of reading: 23/04/2004

Scientific and technological experience

Research and development groups/teams

Name of the group: Grupo de investigación Geometría Diferencial y sus aplicaciones

Aims of the group: Investigación en Geometría Diferencial y Relatividad General

Standardised code: FQM-324

Type of collaboration: Co-authorship of publications

Affiliation entity: Junta de Andalucía

Type of entity: Organismo

Start date: 2010

Scientific or technological activities

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

1 Name of the project: GEOMETRIA SEMI-RIEMANNIANA Y PROBLEMAS VARIACIONALES EN FISICA MATEMATICA MTM2016-78807-C2-1-P

Entity where project took place: Universidad de Granada

City of entity: Granada, Andalusia, Spain

Funding entity or bodies:

Ministerio de Economía y Competitividad

Start-End date: 30/12/2016 - 29/12/2020

2 Name of the project: Geometría semi-riemanniana y problemas variacionales en Física Matemática

Entity where project took place: Universidad de Granada **Type of entity:** University

City of entity: Granada, Andalusia, Spain

Name principal investigator (PI, Co-PI....): Miguel Sanchez Caja

Nº of researchers: 13

Funding entity or bodies:

MICINN-FEDER

Type of entity: State agency



Code according to the funding entity: MTM2013-47828-C2-1-P

Start-End date: 01/01/2013 - 31/12/2016

Total amount: 62.293 €

3 Name of the project: Semi-Riemannian Geometry and Variational Problems in Mathematical Physics

Entity where project took place: Universidad de Granada **Type of entity:** University

City of entity: Granada, Andalusia, Spain

Name principal investigator (PI, Co-PI....): Miguel Sánchez Caja

Nº of researchers: 12

Funding entity or bodies:

Ministerio de Ciencia e Innovación

Type of entity: Organismo

City funding entity: Madrid, Community of Madrid, Spain

Code according to the funding entity: MTM2010-18099

Start-End date: 01/01/2010 - 31/12/2013

Scientific and technological activities

Scientific production

Publications, scientific and technical documents

- 1** Magdalena Caballero Campos; Rafael M. Rubio Ruiz. A dual rigidity of the sphere and the hyperbolic plane. Advances in Geometry. De Gruyter, 2018.
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
- 2** Alfonso Romero Sarabia; Rafael M. Rubio Ruiz. A nonlinear inequality involving the mean curvature of a spacelike surface in 3-dimensional GRW spacetimes and Calabi-Bernstein type problems. Contemporary Mathematics. 674, pp. 141 - 152. Amer. Math. Soc. , 201 Charles St., Providence, RI 02904-2294., 2017.
Type of production: Scientific paper **Format:** Book
Corresponding author: No
- 3** Juan Jesús Salamanca Jurado; Rafael María Rubio Ruiz; Juan Angel Aledo Sánchez. Complete spacelike hypersurfaces in generalized Robertson–Walker and the null convergence condition: Calabi–Bernstein problems. RACSAM. 111 - 1, pp. 115 - 128. Springer, 2017.
DOI: DOI 10.1007/s13398-016-0277-3
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
- 4** José A. Sánchez Pelegrín; Alfonso Romero Sarabia; Rafael María Rubio Ruiz. On uniqueness of the foliation by comoving observers restspaces of a Generalized Robertson–Walker spacetime. General Relativity and Gravitation. 49 - 2, pp. 1 - 16. Springer, 2017.
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes

- 5** Juan Angel Aledo Sánchez; Rafael María Rubio Ruiz; Juan Jesús Salamanca Jurado. Spacelike hypersurfaces with functionally bounded mean curvature in Lorentzian warped products and generalized Calabi-Bernstein type problems. Proceedings of the Royal Society of Edinburgh Section A Mathematics. Cambridge University Press, 2017.
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
- 6** Juan Angel Aledo Sánchez; Rafael María Rubio Ruiz. Stable Minimal Surfaces in Riemannian Warped Products. Journal of Geometric Analysis. 10.1007/s12220-015-, Springer, 2017.
DOI: DOI 10.1007/s12220-015-9673-8
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
- 7** Juan Angel Aledo Sánchez; Rafael María Rubio Ruiz. A Bernstein problem in warped products. Annales Academiæ Scientiarum Fennicæ. 41 - 2, pp. 699 - 704. Academia Scientiarum Fennica, 2016.
DOI: doi:10.5186/aasfm.2016.4139
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
- 8** Alfonso Romero Sarabia; Rafael María Rubio Ruiz. Bernstein-type theorems in a Riemannian manifold with an irrotational Killing vector field. Mediterranean Journal of Mathematics. 13 - 3, pp. 1285 - 1290. Springer, 2016.
DOI: DOI 10.1007/s00009-015-0546-y
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
- 9** Magdalena Caballero Campos; Rafael María Rubio Ruiz. Characterizations of Umbilic Points of Isometric Immersions in Riemannian and Lorentzian Manifolds. TAIWANESE JOURNAL OF MATHEMATICS. 20 - 5, pp. 1041 - 1052. Mathematical Society of the Republic of China, 2016.
DOI: DOI: 10.11650/tjm.20.2016.7383
Type of production: Scientific paper **Format:** Journal
Corresponding author: No
- 10** Rafael María Rubio Ruiz; Juan Angel Aledo Sánchez. Constant mean curvature spacelike surfaces in Lorentzian warped products. Advances in Mathematical Physics. Art. ID 761302, pp. 1 - 6. Hindawi, 2016.
DOI: <http://dx.doi.org/10.1155/2015/761302>
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
- 11** José Antonio Sánchez Pelegrín; Alfonso Romero Sarabia; Rafael María Rubio Ruiz. On maximal hypersurfaces in Lorentz manifolds admitting a parallel lightlike vector field. Classical and Quantum Gravity. 33 - 5, pp. 055003 - 055010. IOPscience, 2016.
DOI: doi:10.1088/0264-9381/33/5/055003
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
- 12** Rafael María Rubio Ruiz; Juan Angel Aledo Sánchez. On the scalar curvature of spacelike hypersurfaces in generalized Robertson Walker spacetimes. Differential Geometry and its Applications. 44, pp. 17 - 29. Elsevier, 2016.
DOI: <http://dx.doi.org/10.1016/j.difgeo.2015.10.004>
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes



- 13** Juan Angel Aledo Sanchez; Rafael María Rubio Ruiz. Parabolicity of minimal graphs in Riemannian warped products and rigidity theorems. *Nonlinear Analysis: Theory, Methods & Applications*. 141, pp. 130 - 138. Elsevier, 2016.
DOI: <http://dx.doi.org/10.1016/j.na.2016.04.006>
Type of production: Scientific paper **Format:** Journal
Corresponding author: No
- 14** Juan Angel Aledo Sánchez; Rafael María Rubio Ruiz. Scalar curvature of spacelike hypersurfaces and certain class of cosmological models for accelerated expanding universes. *Journal of Geometry and Physics*. 104, pp. 128 - 136. Elsevier, 2016.
DOI: <http://dx.doi.org/10.1016/j.geomphys.2016.02.005>
Type of production: Scientific paper **Format:** Journal
- 15** José Antonio Sánchez Pelegrín; Alfonso Romero Sarabia; Rafael María Rubio Ruiz. Uniqueness of complete maximal hypersurfaces in spatially open $(n+1)$ -dimensional Robertson-Walker spacetimes with flat fiber. *General Relativity and Gravitation*. 48 - 6, pp. 055003 - 055010. Springer, 2016.
DOI: DOI 10.1007/s10714-016-2069-7
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
- 16** Alfonso Romero Sarabia; Rafael María Rubio Ruiz; Juan Jesús Salamanca Jurado. Complete maximal hypersurfaces in certain spatially open generalized Robertson-Walker spacetimes. *RACSAM*. 109 - 2, pp. 451 - 460. Springer, 2015.
DOI: DOI 10.1007/s13398-014-0195-1
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
- 17** Rafael María Rubio Ruiz; Magdalena Caballero Campos. Dual characterizations of the sphere and the hyperbolic space in arbitrary dimension. *International Journal of Geometric Methods in Modern Physics*. 12 - 8, pp. 1560010 - 1560014. World Scientific, 2015.
DOI: DOI: 10.1142/S0219887815600105
Type of production: Scientific paper **Format:** Journal
Corresponding author: No
- 18** Rafael María Rubio Ruiz; Juan Jesús Salamanca Jurado. Maximal surface equation on a Riemannian 2-manifold with finite total curvature. *Journal of Geometry and Physics*. 92, pp. 140 - 146. Elsevier, 2015.
DOI: <http://dx.doi.org/10.1016/j.geomphys.2015.02.011>
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
- 19** Juan Angel Aledo Sánchez; Alfonso Romero Sarabia; Rafael María Rubio Ruiz. The classical Calabi-Bernstein Theorem revisited. *Journal of Mathematical Analysis and Applications*. 2, pp. 1172 - 1177. Elsevier, 2015.
DOI: <http://dx.doi.org/10.1016/j.jmaa.2015.06.030>
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
- 20** Juan Angel Aledo Sánchez; Alfonso Romero Sarabia; Rafael María Rubio Ruiz. The existence and uniqueness of standard static splitting. *Classical and Quantum Gravity*. 32 - 10, pp. 105004 - 105012. IOPscience, 2015.
DOI: doi:10.1088/0264-9381/32/10/105004
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes



- 21** Alfonso Romero Sarabia; Rafael María Rubio Ruiz; Juan Jesús Salamanca Jurado. A new approach for uniqueness of complete maximal hypersurfaces in spatially parabolic GRW spacetimes. *Journal of Mathematical Analysis and Applications*. 419 - 1, pp. 355 - 372. Elsevier, 2014.
DOI: <http://dx.doi.org/10.1016/j.jmaa.2014.04.063>
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
- 22** Rafael María Rubio Ruiz. Complete constant mean curvature spacelike hypersurfaces in the Einstein–de Sitter spacetime. *Report on Mathematical Physics*. 74 - 1, pp. 127 - 133. Elsevier, 2014.
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
- 23** Juan Angel Aledo Sánchez; Alfonso Romero Sarabia; Rafael María Rubio Ruiz. Constant mean curvature spacelike hypersurfaces in Lorentzian warped products and Calabi-Bernstein type problems. *Nonlinear Analysis: Theory, Methods & Applications*. 106, pp. 57 - 69. Elsevier, 2014.
DOI: <http://dx.doi.org/10.1016/j.na.2014.04.010>
Type of production: Scientific paper **Format:** Journal
Corresponding author: No
- 24** Juan Angel Aledo Sánchez; Alfonso Romero Sarabia; Rafael María Rubio Ruiz. Estimates for the curvatures of spacelike hypersurfaces in gradient conformally stationary spacetimes. *Classical and Quantum Gravity*. 31 - 8, pp. 1450050 - 1450062. IOPSCIENCE, 2014.
DOI: [doi:10.1088/0264-9381/31/8/085015](https://doi.org/10.1088/0264-9381/31/8/085015)
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
- 25** Alfonso Romero Sarabia; Rafael María Rubio Ruiz; Juan Jesús Salamanca Jurado. Spacelike graphs of finite total curvature in certain 3-dimensional generalized Robertson-Walker spacetime. *Report on Mathematical Physics*. 73 - 2, pp. 241 - 254. Elsevier, 2014.
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
- 26** Rafael María Rubio Ruiz; Juan Jesús Salamanca Jurado. The Friedmann cosmological models revisited as an harmonic motion and new exact solutions. *International Journal of Geometric Methods in Modern Physics*. 11 - 5, pp. 085015 - 085029. World Scientific, 2014.
DOI: [DOI: 10.1142/S0219887814500509](https://doi.org/10.1142/S0219887814500509)
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
- 27** Juan Ángel Aledo Sánchez; Alfonso Romero Sarabia; Rafael M^a Rubio Ruiz. UPPER AND LOWER BOUNDS FOR THE VOLUME OF A COMPACT SPACELIKE HYPERSURFACE IN A GENERALIZED ROBERTSON–WALKER SPACETIME. *International Journal of Geometric Methods in Modern Physics*. 11 - 1, pp. 1450006 - 1450015. World Scientific, 2014.
DOI: [DOI: 10.1142/S0219887814500066](https://doi.org/10.1142/S0219887814500066)
Type of production: Scientific paper **Format:** Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
- 28** Magdalena Caballero Campos; Alfonso Romero Sarabia; Rafael M^a Rubio Ruiz. New Calabi-Bernstein results for some elliptic non-linear equations. *Analysis and applications*. 11 - 1, pp. 1350002 - 1350002-13. World Scientific, 2013.
DOI: [DOI: 10.1142/S0219530513500024](https://doi.org/10.1142/S0219530513500024)
Type of production: Scientific paper
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee



- 29** Alfonso Romero Sarabia; Rafael M. Rubio Ruiz; Juan Jesús Salamanca Jurado. PARABOLICITY OF SPACELIKE HYPERSURFACES IN GENERALIZED ROBERTSON-WALKER SPACETIMES. APPLICATIONS TO UNIQUENESS RESULTS. International Journal of Geometric Methods in Modern Physics. 10 - 8, pp. 1360014 - 1360021. World Scientific, 2013.
DOI: DOI: 10.1142/S0219887813600141
Type of production: Scientific paper **Format:** Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
- 30** Alfonso Romero Sarabia; Rafael M. Rubio Ruiz; Juan Jesús Salamanca Jurado. Uniqueness of complete maximal hypersurfaces in spatially parabolic generalized Robertson-Walker spacetimes. Classical and Quantum Gravity. 30, pp. 115007 - 115020. IOPSCIENCE, 2013.
DOI: doi:10.1088/0264-9381/30/11/115007
Type of production: Scientific paper **Format:** Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: Yes
- 31** Alfonso Romero Sarabia; Rafael M^a Rubio Ruiz. On maximal surfaces in certain non-flat 3-dimensional Robertson-Walker spacetimes. Mathematical Physics, Analysis and Geometry. 15 - 3, pp. 193 - 202. Springer, 2012.
DOI: DOI 10.1007/s11040-012-9108-8
Type of production: Scientific paper
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
- 32** Alfonso Rider Moyano; Rafael M. Rubio Ruiz. Un estudio geométrico del grupo S₄. Boletín de la Asociación Matemática Venezolana. 19 - 1, pp. 77 - 93. Asociación Matemática Venezolana, 2012.
Type of production: Scientific paper **Format:** Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
- 33** Magdalena Caballero Campos; Alfonso Romero Sarabia; Rafael M^a Rubio Ruiz. Constant mean curvature spacelike hypersurfaces in Lorentzian manifolds with a timelike gradient conformal vector field. Classical and Quantum Gravity. 28 - 14, pp. 145009 - 145022. Amer. Inst. Phys., 2011.
DOI: doi:10.1088/0264-9381/28/14/145009
Type of production: Scientific paper **Format:** Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
- 34** Alfonso Rider Moyano; Rafael M^a Rubio Ruiz. Minimal decomposition of an automorphism. Revista de la Academia Colombiana de Ciencias. 35 - 137, pp. 485 - 490. Academia Colombiana de Ciencias, 2011.
Type of production: Scientific paper **Format:** Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
- 35** Alfonso Romero Sarabia; Rafael M^a Rubio Ruiz. A nonlinear inequality arising in geometry and Calabi-Bernstein type problems. Journal of Inequalities and Applications. ID950380 - único, pp. 1 - 10. Springer, 2010.
Type of production: Scientific paper
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
- 36** Magdalena Caballero Campos; Alfonso Romero Sarabia; Rafael M^a Rubio Ruiz. Complete CMC spacelike surfaces with bounded hyperbolic angle in generalized Robertson-Walker spacetimes. International Journal of Geometric Methods in Modern Physics. 7 - 6, pp. 961 - 978. World Sci. Publ., 2010.
Type of production: Scientific paper
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

- 37** Magdalena Caballero Campos; Alfonso Romero Sarabia; Rafael M^a Rubio Ruiz. Constant mean curvature spacelike surfaces in three-dimensional generalized Robertson-Walker spacetimes. *Letter in Mathematical Physics*. 93 - 1, pp. 85 - 105. Springer, 2010.
Type of production: Scientific paper **Format:** Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
- 38** Alfonso Romero Sarabia; Rafael M^a Rubio Ruiz. New proof of the Calabi-Bernstein theorem. *Geometria Dedicata*. 147 - único, pp. 173 - 176. Springer, 2010.
Type of production: Scientific paper **Format:** Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
- 39** Alfonso Romero Sarabia; Rafael M^a Rubio Ruiz. On the mean curvature of spacelike surfaces in certain three-dimensional Robertson-Walker spacetimes and Calabi-Bernstein's type problems. *Annals of Global Analysis and Geometry*. 37 - 1, pp. 21 - 31. Springer, 2010.
Type of production: Scientific paper **Format:** Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
- 40** Magdalena Caballero Campos; Alfonso Romero Sarabia; Rafael M^a Rubio Ruiz. Uniqueness of maximal surfaces in generalized Robertson-Walker spacetimes and Calabi-Bernstein type problems. *Journal of Geometry and Physics*. 60 - 3, pp. 394 - 402. Elsevier, 2010.
Type of production: Scientific paper **Format:** Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
- 41** Alfonso Rider Moyano; Rafael M^a Rubio Ruiz. An axiom system for incidence spatial geometry. *Racsam*. 102 - 2, pp. 237 - 249. Springer, 2008.
Type of production: Scientific paper **Format:** Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
- 42** Alfonso Rider Moyano; Rafael M^a Rubio Ruiz. Une étude classique des duplications d'un groupe cyclique. *Proyecciones Journal in Mathematics*. 25 - 2, pp. 121 - 150. Universidad Católica del Norte. Chile, 2006.
Type of production: Scientific paper **Format:** Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
- 43** Alfonso Rider Moyano; Rafael M^a Rubio Ruiz. A modal logic for incidence spherical geometry. *Racsam*. 99 - 1, pp. 79 - 117. Springer, 2005.
Type of production: Scientific paper **Format:** Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
- 44** Alfonso Rider Moyano; Rafael M^a Rubio Ruiz. On the concept of mediator and its generalizations. *Lecturas Matemáticas*. 26 - 2, pp. 177 - 182. Sociedad Colombiana de Matemáticas, 2005.
Type of production: Scientific paper **Format:** Journal
- 45** Alfonso Rider Moyano; Rafael M^a Rubio Ruiz. A modal logic for Lobachevski plane geometry. *Revista Academia Colombiana de Ciencias Exactas, Físicas y Naturales*. 28 - 106, pp. 87 - 94. Academia Colombiana de Ciencias, 2004.
Type of production: Scientific paper **Format:** Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
- 46** Alfonso Rider Moyano; Rafael M^a Rubio Ruiz. An elementary study of groups whose order is a product of two primes. *Divulgaciones Matemáticas*. 11 - 1, pp. 61 - 70. Universidad de Zulia, 2003.
Type of production: Scientific paper **Format:** Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee



- 47** Rafael M. Rubio Ruiz. Study of compact contact manifolds with a foliating action. *Extracta Mathematicae*. 18 - 3, pp. 273 - 288. Unex, 2003.
Type of production: Scientific paper **Format:** Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
- 48** Alfonso Rider Moyano; Rafael M^a Rubio Ruiz. The indicator of involution. *Bol. Mat. (N.S.)*. 10 - 2, pp. 59 - 67. Universidad de Bogotá, 2003.
Type of production: Scientific paper **Format:** Journal
- 49** Alfonso Rider Moyano; Rafael M^a Rubio Ruiz. The integral as the limits of sums. *Lecturas Matemáticas*. 23 - 1, pp. 27 - 40. Sociedad Colombiana de Matemáticas, 2002.
Type of production: Scientific paper **Format:** Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
- 50** Rafael M^a Rubio Ruiz. Dimension minimale des orbites d'une action de R^n sur une variété de contact. *Manuscripta Mathematica*. 105 - 3, pp. 323 - 342. Springer, 2001.
Type of production: Scientific paper **Format:** Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: Yes
- 51** Alfonso Romero Sarabia; Rafael María Rubio Ruiz. A nonlinear inequality involving the mean curvature of a spacelike surface in 3-dimensional GRW spacetimes and Calabi-Bernstein type problems. *Contemporary Mathematics*. 674, pp. 141 - 152. AMS, 2016.
DOI: <http://dx.doi.org/10.1090/conm/674/13560>
Type of production: Book chapter **Format:** Book
Corresponding author: No
- 52** Andrés Raya Saro; Alfonso Rider Moyano; Rafael M^a Rubio Ruiz. *Algebra lineal y geometría cuadrática*. Netbiblo, 2007. ISBN 978-84-9745-171-0
Type of production: Scientific book or monograph **Format:** Book
Degree of contribution: Author or co-author of entire book
- 53** Andrés Raya Saro; Alfonso Rider Moyano; Rafael M^o Rubio Ruiz. *Algebra y geometría lineal*. Reverté, 2007. ISBN 978-84-291-5038-4
Type of production: Scientific book or monograph **Format:** Book
Degree of contribution: Author or co-author of entire book
- 54** Andrés Raya Saro; Alfonso Rider Moyano; Rafael M^a Rubio Ruiz. *Campos numéricos*. Netbiblo, 2007. ISBN 978-84-9745-199-4
Type of production: Scientific book or monograph **Format:** Book
Degree of contribution: Author or co-author of entire book
- 55** Andrés Raya Saro; Alfonso Rider Moyano; Rafael M^a Rubio Ruiz. *Introducción a los espacios de Hilbert*. único - 1, Abecedario, 2007. ISBN 84-96560-53-8
Type of production: Scientific book or monograph **Format:** Book
Degree of contribution: Author or co-author of entire book
- 56** Andrés Raya Saro; Alfonso Rider Moyano; Rafael M^a Rubio Ruiz. *Introducción a la teoría de grupos*. Abecedario, 2005. ISBN 84-96560-04-X
Type of production: Scientific book or monograph **Format:** Book
Degree of contribution: Author or co-author of entire book



- 57** Andrés Raya Saro; Alfonso Rider Moyano; Rafael M^a Rubio Ruiz. Problemas resueltos de ecuaciones diferenciales. Grupo editorial universitario, 2003. ISBN 84-8491-309-0

Type of production: Scientific book or monograph **Format:** Book

Degree of contribution: Author or co-author of entire book

Works submitted to national or international conferences

- 1** **Title of the work:** Calabi-Bernstein type problems in Lorentzian Geometry
Name of the conference: 8th International Meeting on Lorentzian Geometry
Type of event: Conference
Type of participation: Participatory - invited/keynote **Reasons for participation:** Upon invitation talk
Corresponding author: Yes
City of event: Málaga, Andalusia, Spain
Date of event: 20/09/2016
End date: 23/09/2016
Organising entity: Universidad de Málaga **Type of entity:** University
City organizing entity: Málaga, Andalusia, Spain
Type of contribution: Scientific paper
- 2** **Title of the work:** On maximal surfaces in Generalized Robertson-Walker spacetimes and some examples of Calabi-Bernsteintype problem
Name of the conference: VIII Andalusian Meeting on Geometry
Type of event: Workshop **Geographical area:** National
Type of participation: Participatory - invited/keynote talk
City of event: Loja, Andalusia, Spain
Date of event: 12/02/2010
End date: 12/02/2010
Organising entity: Researchs group on differential geometry and applications and semiriemannian geometry and applications
- 3** **Title of the work:** Calabi-Bernstein problems for spacelike slices in certain generalized Robertson-Walker spacetimes
Name of the conference: New development in Lorentzian Geometry
Type of event: Conference **Geographical area:** Non EU International
Type of participation: 'Participatory - poster **Reasons for participation:** Review before acceptance
City of event: Berlín, Germany
Date of event: 18/11/2009
End date: 20/11/2009
Organising entity: TU Berlín **Type of entity:** University
Type of contribution: Scientific paper
Magdalena Caballero Campos; Rafael M^a Rubio Ruiz. "Calabi-Bernstein problems for spacelike slices in certain generalized Robertson-Walker spacetimes". En: New development in Lorentzian Geometry. ISBN 0-8218-5352-X
- 4** **Title of the work:** Curvatura media y parabolicidad en espaciotiempos generalizados de Robertson-Walker
Name of the conference: Workshop on Differential Geometry and Relativity
Type of participation: Participatory - invited/keynote **Reasons for participation:** Upon invitation talk



City of event: Cedeira, Galicia, Spain

Date of event: 29/10/2009

End date: 30/10/2009

Organising entity: Universidad de Santiago de Compostela

Rafael M^a Rubio Ruiz.

- 5** **Title of the work:** Uniqueness of constant mean curvature surfaces immersed in a slab in certain 3-dimensional Robertson-Walker spacetimes and Calabi-Bernstein type problems
Name of the conference: XVIII International fall workshop on geometry and physics
Type of event: Conference **Geographical area:** Non EU International
Type of participation: 'Participatory - poster
City of event: Benasque, Aragon, Spain
Date of event: 29/09/2009
End date: 30/09/2009
Organising entity: Centro de ciencias Pedro Pascual
Rafael M^a Rubio Ruiz. En: Uniqueness of constant mean curvature surfaces immersed in a slab in certain 3-dimensional Robertson-Walker spacetimes and Calabi-Bernstein type problems. 1260, pp. 180 - 184. American Institute of Physics, ISBN 978-0-7354-0809-8
- 6** **Title of the work:** Unicidad de superficies espaciales de curvatura media acotada en cierta clase de espaciotiempos tridimensionales de Robertson-Walker
Name of the conference: VII Encuentro andaluz de Geometría
Type of event: Workshop **Geographical area:** National
Reasons for participation: Upon invitation
City of event: Nerja (Málaga), Andalusia, Spain
Date of event: 01/06/2009
End date: 01/06/2009
Organising entity: Junta de Andalucía (Plan andaluz de investigación)
Rafael M^a Rubio Ruiz.
- 7** **Title of the work:** Superficies maximales en ciertos espaciotiempos de Robertson-Walker
Name of the conference: VI encuentro de acción coordinada
Type of event: Workshop **Geographical area:** National
Reasons for participation: Upon invitation
City of event: Córdoba, Andalusia, Spain
Date of event: 16/12/2008
End date: 16/12/2008
Organising entity: Junta de Andalucía (Plan andaluz de investigación)