



Ruth Lazcoz Sáez

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Summary of CV

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

Sexenios: 4 de 4 posibles

Directora de 6 tesis doctorales defendidas (4 codirigidas)

Doctora en Ciencias Físicas (Director: Alexander Feinstein), becada por el Gobierno Vasco (1994-1998)

Actualmente profesora titular de universidad (UPV/EHU), acreditación ANECA para cátedra

Actuamente IP de 1 proyecto del Plan Nacional (y de otros dos con anterioridad)

Chairperson de la COST Action CANTATA: Cosmology and Astrophysics Network for Theoretical Advances and Training Actions de 2016 a 2020

Investigadora Ramón y Cajal (UPV/EHU) 2006-2007 y miembro de las comisiones evaluadoras de dichos contratos en 2011 y 2018



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.

**Papers publicados 84,
Nº total de citas excluyendo autocitas 3420,
h-index 30**

Ruth Lazcoz Sáez

Surname(s): **Lazcoz Sáez**
Name: **Ruth**
ORCID: **0000-0001-5536-3130**
ResearcherID: **A-5642-2011**
Date of birth: **20/02/1971**
Gender: **Female**
Country of birth: **Spain**
Aut. region/reg. of birth: **Basque Country**
City of birth: **Bilbao**
Contact city: **Bilbao**
Email: **ruth.lazkoz@ehu.es**

Current professional situation

Employing entity: Universidad del País Vasco
Department: Física Teórica e Historia de la Ciencia, Facultad de Ciencia y Tecnología
Professional category: Profesora de Universidad
Start date: 19/04/2010
Type of contract: Civil servant

Previous positions and activities

	Employing entity	Professional category	Start date
1	Universidad del País Vasco	Profesora Interina Laboral	17/09/2007
2	Universidad del País Vasco	Becaria predoctoral	01/10/1994
3	Universidad del País Vasco	Investigadora Ramón y Cajal	01/01/2006
4	Universidad del País Vasco	Investigadora contratada	01/07/2005
5	Universidad del País Vasco	Profesora colaboradora (a tiempo completo)	01/10/2003
6	Universidad del País Vasco	Profesora asociada (a tiempo completo)	01/02/2002
7	Universidad del País Vasco	Profesora asociada (a tiempo completo)	27/09/2001
8	Universidad de Deusto	Profesora agregada	01/10/2000

1 **Employing entity:** Universidad del País Vasco **Type of entity:** University
Professional category: Profesora Interina Laboral
Start-End date: 17/09/2007 - 16/09/2010

2 **Employing entity:** Universidad del País Vasco **Type of entity:** University
Professional category: Becaria predoctoral
Start-End date: 01/10/1994 - 30/09/2008



- 3** **Employing entity:** Universidad del País Vasco **Type of entity:** University
Professional category: Investigadora Ramón y Cajal
Start-End date: 01/01/2006 - 16/09/2007
- 4** **Employing entity:** Universidad del País Vasco
Professional category: Investigadora contratada
Start-End date: 01/07/2005 - 31/12/2005
- 5** **Employing entity:** Universidad del País Vasco **Type of entity:** University
Professional category: Profesora colaboradora (a tiempo completo)
Start-End date: 01/10/2003 - 30/06/2005
- 6** **Employing entity:** Universidad del País Vasco **Type of entity:** University
Professional category: Profesora asociada (a tiempo completo)
Start-End date: 01/02/2002 - 30/09/2003
- 7** **Employing entity:** Universidad del País Vasco **Type of entity:** University
Professional category: Profesora asociada (a tiempo completo)
Start-End date: 27/09/2001 - 31/01/2002
- 8** **Employing entity:** Universidad de Deusto **Type of entity:** University
Professional category: Profesora agregada
Start-End date: 01/10/2000 - 30/09/2001



Education

University education

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

University degree: Higher degree

Name of qualification: Licenciado en Ciencias

Degree awarding entity: Universidad del País Vasco **Type of entity:** University

Date of qualification: 13/10/1994

Doctorates

Doctorate programme: Ingeniería Física

Degree awarding entity: Universidad del País Vasco **Type of entity:** University

Date of degree: 29/05/1998

Language skills

Language	Listening skills	Reading skills	Spoken interaction	Speaking skills	Writing skills
Basque		C1	C1	C1	C1
English		C1	C1	C1	C1

Teaching experience

Experience supervising doctoral thesis and/or final year projects

- Project title:** Cuestiones cosmodinámicas sobre la energía oscura
Entity: Universidad del País Vasco **Type of entity:** University
Student: Celia Escamilla Rivera
Date of reading: 02/02/2014
- Project title:** Aspectos teóricos y observacionales de la aceleración cósmica
Type of project: Doctoral thesis
Entity: Universidad del País Vasco **Type of entity:** University
Student: Irene Sendra Server
Obtained qualification: Sobresaliente cum laude
Date of reading: 27/07/2012
- Project title:** Comparación de modelos para la energía oscura
Entity: Universidad del País Vasco **Type of entity:** University
Student: Alba Vidal García



Date of reading: 24/07/2012

4 Project title: Review of the Yun Wang Model of Accelerated Expanding Universe from Current Observational Data

Type of project: End of course project

Entity: Universidad del País Vasco

Type of entity: University

Student: Mikel Palmero Lazcoz

Date of reading: 16/06/2012

5 Project title: Espacio de fases de cosmologías con expansión acelerada

Co-director of thesis: Rolando Cárdenas

Entity: Universidad Central de las Villas - Facultad de Física, Matemáticas y Computación

City of entity: Santa Clara, Cuba

Student: Genly León Torres

Obtained qualification: Sobresaliente Cum Laude

Date of reading: 04/03/2010

6 Project title: Dynamical System Techniques Applied to Cosmological Problems

Type of project: Minor thesis

Entity: Norwegian University of Science and Technology

City of entity: Trondheim, Norway

Student: Havard Haugen

Obtained qualification: A

Date of reading: 01/08/2006

Healthcare experience

Other activities/achievements not included above

1 Other relevant activities: Coordinadora de trabajos de fin de grado de la titulación de Física de la UPV/EHU

Entity where project took place: UPV/EHU

Type of entity: University

2 Other relevant activities: Evaluadora de los Concurso Regulares de Proyectos FONDECYT 2007, 2012 (área de Física y Astronomía) FONDECYT/CONICYT, Gobierno de Chile

Entity where project took place: FONDECYT (Chile) **Type of entity:** State agency

3 Other relevant activities: Evaluadora del Concurso Regular de Proyectos FONDECYT 20012 (área de Física y Astronomía) FONDECYT/CONICYT, Gobierno de Chile

Entity where project took place: FONDECYT (Chile) **Type of entity:** State agency

4 Other relevant activities: Evaluadora proyectos ANEP (Plan Nacional de Física y Ramón y Cajal)

Entity where project took place: MICINN / MINECO **Type of entity:** Ministerios

Scientific and technological experience

Scientific or technological activities

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

- 1** **Name of the project:** Gravitación y física del cosmos
Entity where project took place: Universidad del País Vasco **Type of entity:** University
City of entity: Bilbao, Basque Country, Spain
Name principal investigator (PI, Co-PI....): Ruth Lazkoz Sáez
Nº of researchers: 10
Funding entity or bodies: Ministerio de Ciencia e Innovación **Type of entity:** Antiguo ministerio de economía e innovación
City funding entity: Madrid, Community of Madrid, Spain
Start-End date: 01/01/2018 - 31/12/2021
Total amount: 139.500 €
- 2** **Name of the project:** CANTATA Cosmology and Astrophysics network for theoretical advances and training actions
Entity where project took place: Universidad del País Vasco **Type of entity:** University
City of entity: Leioa, Basque Country, Spain
Nº of researchers: 300
Funding entity or bodies: COST association **Type of entity:** Public Research Body
City funding entity: Brussels, Belgium
Start-End date: 08/04/2016 - 07/04/2020
- 3** **Name of the project:** Gravitación y Física del Cosmos
Entity where project took place: Universidad del País Vasco **Type of entity:** University
City of entity: Leioa, Spain
Name principal investigator (PI, Co-PI....): Ruth Lazkoz Sáez
Nº of researchers: 10
Start-End date: 01/01/2015 - 31/12/2017
Total amount: 130.000 €
- 4** **Name of the project:** Exploring the Physics of Inflation
Name principal investigator (PI, Co-PI....): Enrique Martínez González
Funding entity or bodies: MICINN
Start-End date: 12/2010 - 12/2015



- 5** **Name of the project:** Física del cosmos: aspectos gravitacionales
Entity where project took place: Universidad del País Vasco **Type of entity:** University
Name principal investigator (PI, Co-PI....): Ruth Lazkoz Sáez
Funding entity or bodies: MICINN **Type of entity:** Public Research Body
Start-End date: 01/01/2011 - 31/12/2013
- 6** **Name of the project:** Etorkosmo
Entity where project took place: Universidad del País Vasco **Type of entity:** University
Name principal investigator (PI, Co-PI....): Ruth Lazkoz Sáez
Funding entity or bodies: Universidad del País Vasco **Type of entity:** University
City funding entity: Bilbao, Basque Country, Spain
Start-End date: 02/2012 - 12/2012
- 7** **Name of the project:** Katea: Kosmos azeleratuaren teoriarako ekintza aurreratua
Name principal investigator (PI, Co-PI....): Ruth Lazkoz Sáez
Funding entity or bodies: Gobierno Vasco **Type of entity:** Gobierno Vasco
City funding entity: Spain
Start-End date: 09/2011 - 12/2012
- 8** **Name of the project:** Umea: Unibertsoa mugatzeko ekintza aurreratua
Entity where project took place: Universidad del País Vasco **Type of entity:** University
Name principal investigator (PI, Co-PI....): Ruth Lazkoz Sáez
Funding entity or bodies: Gobierno Vasco **Type of entity:** Gobierno Vasco
City funding entity: Spain
Start-End date: 09/2010 - 12/2011
- 9** **Name of the project:** Red Temática de Gravitación y Relatividad
Name principal investigator (PI, Co-PI....): Raúl Vera Jiménez
Funding entity or bodies: MICINN
Start-End date: 06/07/2010 - 05/07/2011
- 10** **Name of the project:** Kafea: Kosmos azeleratuaren fisikarako ekintza aurreratua
Entity where project took place: Universidad del País Vasco **Type of entity:** University
Name principal investigator (PI, Co-PI....): Ruth Lazkoz Sáez
Funding entity or bodies: Gobierno Vasco **Type of entity:** Gobierno Vasco
City funding entity: Spain
Start-End date: 06/2009 - 12/2010

- 11** **Name of the project:** Gravitación y Cosmología
Entity where project took place: Universidad del País Vasco **Type of entity:** University
Name principal investigator (PI, Co-PI....): Jesús Ibáñez Medrano
Funding entity or bodies:
Dirección General de Investigación
Start-End date: 01/10/2007 - 03/09/2010
- 12** **Name of the project:** Red Temática de Gravitación y Relatividad
Name principal investigator (PI, Co-PI....): Ruth Lazkoz Sáez
Funding entity or bodies:
Dirección General de Investigación
Start-End date: 06/07/2009 - 05/07/2010
- 13** **Name of the project:** Red Temática de Gravitación y Relatividad
Name principal investigator (PI, Co-PI....): Ruth Lazkoz Sáez
Funding entity or bodies:
Dirección General de Investigación
Start-End date: 06/07/2008 - 05/07/2009
- 14** **Name of the project:** Renovación Red Temática de Gravitación y Relatividad
Name principal investigator (PI, Co-PI....): Alicia Sintés
Funding entity or bodies:
Dirección General de Investigación
Start-End date: 06/07/2007 - 05/07/2008
- 15** **Name of the project:** Colaboración hispano-británico-argentina en cosmología teórica
Name principal investigator (PI, Co-PI....): Ruth Lazkoz Sáez
Funding entity or bodies:
Dirección General de Investigación
Start-End date: 31/08/2005 - 31/12/2007
- 16** **Name of the project:** Cosmología Relativista y Gravitación
Entity where project took place: Universidad del País Vasco **Type of entity:** University
Name principal investigator (PI, Co-PI....): Jesús Ibáñez Medrano
Funding entity or bodies:
Dirección General de Investigación
Start-End date: 01/01/2004 - 30/09/2007
- 17** **Name of the project:** Red Temática de Gravitación y Relatividad
Name principal investigator (PI, Co-PI....): Alicia Sintés
Funding entity or bodies:
Dirección General de Investigación
Start-End date: 01/04/2006 - 30/04/2007

- 18** **Name of the project:** Relatividad General y Cosmología
Entity where project took place: Universidad del País Vasco **Type of entity:** University
Name principal investigator (PI, Co-PI....): Juan M. Aguirregabiria Aguirre
Funding entity or bodies: Universidad del País Vasco **Type of entity:** University
City funding entity: Bilbao, Basque Country, Spain
Start-End date: 16/10/2002 - 31/12/2006
- 19** **Name of the project:** Red Temática de Gravitación y Relatividad
Name principal investigator (PI, Co-PI....): Tomás Ortín
Funding entity or bodies: Dirección General de Investigación
Start-End date: 01/04/2005 - 30/04/2006
- 20** **Name of the project:** Red Temática de Gravitación y Relatividad
Name principal investigator (PI, Co-PI....): Tomás Ortín
Funding entity or bodies: Dirección General de Investigación
Start-End date: 01/04/2003 - 30/04/2005
- 21** **Name of the project:** Radiación gravitatoria en sistemas relativistas axialmente simétricos. Un estudio analítico numérico.
Entity where project took place: Universitat de les Illes Balears
Name principal investigator (PI, Co-PI....): Jaume Carot Giner
Funding entity or bodies: CICYT
Start-End date: 16/11/2001 - 16/11/2004
- 22** **Name of the project:** Condiciones iniciales e inflación en nuevos escenarios cosmológicos
Entity where project took place: Universidad del País Vasco **Type of entity:** University
Name principal investigator (PI, Co-PI....): Ruth Lazkoz Sáez
Funding entity or bodies: Sociedad de Estudios Vascos-Eusko Ikaskuntza
Start-End date: 07/04/2003 - 07/04/2004
- 23** **Name of the project:** Estudios en cosmología relativista: Inflación asistida en espacio-tiempos de Bianchi
Entity where project took place: Universidad del País Vasco **Type of entity:** University
Name principal investigator (PI, Co-PI....): Ruth Lazkoz Sáez
Funding entity or bodies: Sociedad de Estudios Vascos-Eusko Ikaskuntza
Start-End date: 15/03/2001 - 15/03/2002
- 24** **Name of the project:** Estudios en cosmología relativista: condiciones iniciales, inhomogeneidades, efectos cuánticos y análisis del espacio de fases de las soluciones cosmológicas
Entity where project took place: Universidad del País Vasco **Type of entity:** University



Name principal investigator (PI, Co-PI....): Jesús Ibáñez Medrano

Funding entity or bodies:

Comisión Interministerial de Ciencia y Tecnología

Type of entity: Comisión Interministerial de Ciencia y Tecnología

City funding entity: Madrid, Community of Madrid, Spain

Start-End date: 01/12/1997 - 01/12/2000

25 Name of the project: Universo primitivo: inflación inhomogénea, pulsos gravitatorios y efectos cuánticos

Entity where project took place: Universidad del País Vasco **Type of entity:** University

Name principal investigator (PI, Co-PI....): Jesús Ibáñez Medrano

Funding entity or bodies:

Comisión Interministerial de Ciencia y Tecnología

Type of entity: Comisión Interministerial de Ciencia y Tecnología

City funding entity: Madrid, Community of Madrid, Spain

Start-End date: 17/06/1995 - 27/06/1997

26 Name of the project: CLASH: Cluster lensing and Supernova survey with Hubble

Funding entity or bodies:

NASA

Start date: 09/2010

27 Name of the project: Gravitación y Cosmología

Entity where project took place: Universidad del País Vasco **Type of entity:** University

Name principal investigator (PI, Co-PI....): Alexander Feinstein

Funding entity or bodies:

Gobierno Vasco

Type of entity: Gobierno Vasco

City funding entity: Spain

Start date: 01/01/2007

Scientific and technological activities

Scientific production

Publications, scientific and technical documents

- 1** Ismael Ayuso; Ruth Lazkoz; Vincenzo Salzano. Observational constraints on cosmological solutions of $f(Q)$ theories. Phys.Rev.D. 103 - 6, pp. 063505. 2021.
Type of production: Scientific paper **Format:** Journal
- 2** María Ortiz-Baños; Mariam Bouhmadi-López; Ruth Lazkoz; Vincenzo Salzano. Λ CDM suitably embedded in $f(R)$ with a non-minimal coupling to matter. Eur.Phys.J.C. 81 - 3, pp. 237. 2021.
Type of production: Scientific paper **Format:** Journal
- 3** Ruth Lazkoz; Francisco S.N. Lobo; María Ortiz-Baños. Observational constraints of $f(Q)$ gravity. Phys.Rev.D. 100 - 10, pp. 104027. 2019.
Type of production: Scientific paper
- 4** Ruth Lazkoz; María Ortiz-Baños; Vincenzo Salzano. $f(R)$ gravity modifications: from the action to the data. Eur. Phys. J.C78 - 3, pp. 213 - 213. 2018.
Type of production: Scientific paper **Format:** Journal
- 5** Ruth Lazkoz; María Ortiz-Baños; Vincenzo Salzano. $f(R)$ gravity modifications: from the action to the data. Eur. Phys. J.C78 - 3, pp. 213 - 213. 2018.
Type of production: Scientific paper **Format:** Journal
- 6** Ruth Lazkoz; María Ortiz-Baños; Vincenzo Salzano. $f(R)$ gravity modifications: from the action to the data. Eur. Phys. J.C78 - 3, pp. 213 - 213. 2018.
Type of production: Scientific paper **Format:** Journal
- 7** Mariafelicia De Laurentis; Ivan De Martino; Ruth Lazkoz. Analysis of the Yukawa gravitational potential in $f(R)$ gravity II: relativistic periastron advance. Phys. Rev.D97 - 10, pp. 104068 - 104068. 2018.
Type of production: Scientific paper **Format:** Journal
- 8** Ruth Lazkoz; Iker Leanizbarrutia; Vincenzo Salzano. Forecast and analysis of the cosmological redshift drift. Eur. Phys. J.C78 - 1, pp. 11 - 11. 2018.
Type of production: Scientific paper **Format:** Journal
- 9** Mariafelicia De Laurentis; Ivan De Martino; Ruth Lazkoz. Modified gravity revealed along geodesic tracks. Eur. Phys. J.C78 - 11, pp. 916 - 916. 2018.
Type of production: Scientific paper **Format:** Journal
- 10** Pablo Jimeno; Jose-Maria Diego; Tom Broadhurst; Ivan De Martino; Ruth Lazkoz. Planck/SDSS Cluster Mass and Gas Scaling Relations for a Volume-Complete redMaPPer Sample. Mon. Not. Roy. Astron. Soc.478 - 1, pp. 638 - 650. 2018.
Type of production: Scientific paper **Format:** Journal

- 11** Ivan de Martino; Tom Broadhurst; S. H. Henry Tye; Tzihong Chiueh; Hsi-Yu Schive; Ruth Lazkoz. Ultra Light Axionic Dark Matter: Galactic Halos and Implications for Observations with Pulsar Timing Arrays. *Galaxies*. 6 - 1, pp. 10 - 10. 2018.
Type of production: Scientific paper **Format:** Journal
- 12** A. Molino; others. CLASH: Accurate Photometric Redshifts with 14 HST bands in Massive Galaxy Cluster Cores. *Mon. Not. Roy. Astron. Soc.* 470 - 1, pp. 95 - 113. 2017.
Type of production: Scientific paper **Format:** Journal
- 13** Ivan De Martino; Tom Broadhurst; S. H. Henry Tye; Tzihong Chiueh; Hsi-Yu Schive; Ruth Lazkoz. Recognizing Axionic Dark Matter by Compton and de Broglie Scale Modulation of Pulsar Timing. *Phys. Rev. Lett.* 119 - 22, pp. 221103 - 221103. 2017.
Type of production: Scientific paper **Format:** Journal
- 14** Razieh Emami; Tom Broadhurst; Pablo Jimeno; George Smoot; Raul Angulo; Jeremy Lim; Ming Chung Chu; Ruth Lazkoz. {Evidence of Neutrino Enhanced Clustering in a Complete Sample of Sloan Survey Clusters, Implying $\sum m_{\nu}=0.11\pm0.03\text{eV}$ }. 2017.
Type of production: Scientific paper **Format:** Journal
- 15** Ruth Lazkoz; Iker Leanizbarrutia; Vincenzo Salzano. Cosmological constraints on fast transition unified dark energy and dark matter models. *Physical Review D*. D93 - 4, pp. 043537 - 043537. 2016.
Type of production: Scientific paper **Format:** Journal
- 16** Vincenzo Salzano; Mariusz P. Dabrowski; Ruth Lazkoz. Probing the constancy of the speed of light with future galaxy survey: The case of SKA and Euclid. *Physical Review D*. D93 - 6, pp. 063521 - 063521. 2016.
Type of production: Scientific paper **Format:** Journal
- 17** Ruth Lazkoz; Vincenzo Salzano; José Beltrán Jiménez. Anisotropic expansion and SNIa: An open issue. *Physics Letters B*. *Physics Letters B* - 741, pp. 168 - 177. 2015.
Type of production: Scientific paper
- 18** Jose Beltran Jimenez; Vincenzo Salzano; Ruth Lazkoz. Anisotropic expansion and SNIa: an open issue. *Phys. Lett. B* 741, pp. 168 - 177. 2015.
Type of production: Scientific paper **Format:** Journal
- 19** Pablo Jimeno; Tom Broadhurst; Jean Coupon; Keiichi Umetsu; Ruth Lazkoz. Comparing gravitational redshifts of SDSS galaxy clusters with the magnified redshift enhancement of background BOSS galaxies. *Mon. Not. Roy. Astron. Soc.* 448 - 3, pp. 1999 - 2012. 2015.
Type of production: Scientific paper **Format:** Journal
- 20** Pablo Jimeno; Tom Broadhurst; Jean Coupon; Keiichi Umetsu; Ruth Lazkoz. Comparing gravitational redshifts of SDSS galaxy clusters with the magnified redshift enhancement of background BOSS galaxies. *Monthly Notices of the Royal Astronomical Society*. 448 - 3, 2015.
Type of production: Scientific paper
- 21** Vincenzo Salzano; Mariusz P. Dabrowski; Ruth Lazkoz. Measuring the speed of light with Baryon Acoustic Oscillations. *Phys. Rev. Lett.* 114 - 10, pp. 101304 - 101304. 2015.
Type of production: Scientific paper **Format:** Journal
- 22** Vincenzo Salzano; Mariusz P Dabrowski; Ruth Lazkoz. Measuring the speed of light with Baryon Acoustic Oscillations. *Physical Review Letters*. 114 - 10, 2015.
Type of production: Scientific paper

- 23** S. Jouvel; O. Host; O. Lahav; S. Seitz; A. Molino; others. CLASH: Photometric redshifts with 16 HST bands in galaxy cluster fields. *Astron.Astrophys.*562, pp. A86 - A86. 2014.
Type of production: Scientific paper **Format:** Journal
- 24** Irene Sendra; Jose M. Diego; Tom Broadhurst; Ruth Lazkoz. Enabling Non-Parametric Strong Lensing Models to Derive Reliable Cluster Mass Distributions. *WSLAP+. Mon.Not.Roy.Astron.Soc.*437, pp. 2642 - 2651. 2014.
Type of production: Scientific paper **Format:** Journal
- 25** Vincenzo Salzano; Yun Wang; Irene Sendra; Ruth Lazkoz. Linear dark energy equation of state revealed by supernovae?. *Mod.Phys.Lett.A29*, pp. 1450008 - 1450008. 2014.
Type of production: Scientific paper **Format:** Journal
- 26** Ariadna Montiel; Ruth Lazkoz; Irene Sendra; Celia Escamilla-Rivera; Vincenzo Salzano. Nonparametric reconstruction of the cosmic expansion with local regression smoothing and simulation extrapolation. *Phys. Rev.D89 - 4*, pp. 043007 - 043007. 2014.
Type of production: Scientific paper **Format:** Journal
- 27** Ariadna Montiel; Ruth Lazkoz; Irene Sendra; Celia Escamilla-Rivera; Vincenzo Salzano. Nonparametric reconstruction of the cosmic expansion with local regression smoothing and simulation extrapolation. *Phys.Rev.D89*, pp. 043007 - 043007. 2014.
Type of production: Scientific paper **Format:** Journal
- 28** Ariadna Montiel; Vincenzo Salzano; Ruth Lazkoz. Observational constraints on the unified dark matter and dark energy model based on the quark bag model. *Phys.Lett.B733*, pp. 209 - 216. 2014.
Type of production: Scientific paper **Format:** Journal
- 29** Ruth Lazkoz; Jailson Alcaniz; Celia Escamilla-Rivera; Vincenzo Salzano; Irene Sendra. BAO cosmography. *JCAP.* 1312, pp. 005 - 005. 2013.
Type of production: Scientific paper **Format:** Journal
- 30** Vincenzo Salzano; Steven A. Rodney; Irene Sendra; Ruth Lazkoz; Adam G. Riess; others. Improving Dark Energy Constraints with High Redshift Type Ia Supernovae from CANDELS and CLASH. *Astron.Astrophys.*557, pp. A64 - A64. 2013.
Type of production: Scientific paper **Format:** Journal
- 31** Marco Bruni; Ruth Lazkoz; Alberto Rozas-Fernandez. Phenomenological models for Unified Dark Matter with fast transition. *Mon. Not. Roy. Astron. Soc.*431, pp. 2907 - 2916. 2013.
Type of production: Scientific paper **Format:** Journal
- 32** A. Zitrin; P. Rosati; M. Nonino; C. Grillo; M. Postman; others. CLASH: New Multiple-Images Constraining the Inner Mass Profile of MACS J1206.2-0847. *Astrophys.J.*749, pp. 97 - 97. 2012.
Type of production: Scientific paper **Format:** Journal
- 33** Christian G. Bohmer; Nyein Chan; Ruth Lazkoz. Dynamics of dark energy models and centre manifolds. *Phys.Lett.B714*, pp. 11 - 17. 2012.
Type of production: Scientific paper **Format:** Journal
- 34** Ruth Lazkoz; Ariadna Montiel; Vincenzo Salzano. First cosmological constraints on the Superfluid Chaplygin gas model. *Phys. Rev. D.*86, pp. 103535. 2012.
Type of production: Scientific paper **Format:** Journal

- 35** Ruth Lazkoz; Ariadna Montiel; Vincenzo Salzano. First cosmological constraints on the Superfluid Chaplygin gas model. *Phys.Rev.D*86, pp. 103535 - 103535. 2012.
Type of production: Scientific paper **Format:** Journal
- 36** Vincenzo Salzano; Yun Wang; Irene Sendra; Ruth Lazkoz. Linear dark energy equation of state revealed by supernovae?. 2012.
Type of production: Scientific paper **Format:** Journal
- 37** L. Raul Abramo; Michael A. Strauss; Marcos Lima; Carlos Hernandez-Monteagudo; Ruth Lazkoz; others. Measuring large-scale structure with quasars in narrow-band filter surveys. *Mon.Not.Roy.Astron.Soc.*4234, pp. 3251 - 3267. 2012.
Type of production: Scientific paper **Format:** Journal
- 38** Nora Breton; Ruth Lazkoz; Ariadna Montiel. Observational constraints on electromagnetic Born-Infeld cosmology. *JCAP.* 1210, pp. 013 - 013. 2012.
Type of production: Scientific paper **Format:** Journal
- 39** Marco Bruni; Ruth Lazkoz; Alberto Rozas-Fernandez. Phenomenological models for Unified Dark Matter with fast transition. 2012.
Type of production: Scientific paper **Format:** Journal
- 40** Ruth Lazkoz; Vincenzo Salzano; Irene Sendra. Revisiting a model-independent dark energy reconstruction method. *Eur.Phys.J.*C72, pp. 2130 - 2130. 2012.
Type of production: Scientific paper **Format:** Journal
- 41** Irene Sendra; Ruth Lazkoz. SN and BAO constraints on (new) polynomial dark energy parametrizations: current results and forecasts. *Mon.Not.Roy.Astron.Soc.*422, pp. 776 - 793. 2012.
Type of production: Scientific paper **Format:** Journal
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R&D management and participation in scientific committees**Scientific, technical and/or assessment committees****1 Committee title:** Comisión de Evaluación del Programa Ramón y Cajal**Primary (UNESCO code):** 220000 - Physics**Affiliation entity:** Agencia Nacional de Evaluación y **Type of entity:** Scientific Prospectiva**City affiliation entity:** Spain**Start-End date:** 31/05/2011 - 01/06/2011**2 Committee title:** Sociedad Española de Relatividad y Gravitación**Start-End date:** 07/04/2003 - 10/09/2009



R&D management

Name of the activity: Cosmology and Astrophysics Network for theoretical advances and training actions

Type of management: Management of R&D&I actions and projects

Entity: Universidad del País Vasco

Type of entity: University

Start date: 08/04/2016

Duration: 4 years