



## Física Teórica y del Cosmos

**Áreas de conocimiento:** Física Teórica, Astronomía y Astrofísica, Física de la Tierra

**Director:** José Santiago Pérez

**Secretario:** José Ignacio Illana Calero

**Página web:** <http://www.ugr.es/~fteorica/>

**Profesorado:** CU: 10, PTU: 18 , PDI Contratado y Otros: 20.

### Tesis leídas

- Joint active and passive seismic tomography in active volcanoes: The case of study of Mt. Etna, and further implications in active volcanic regions.

Doctorando: Alejandro Díaz Moreno

Director: Dr. Jesús M. Ibáñez Godoy, Dra. Mª Araceli García Yeguas, Dr. Isaac Álvarez Ruiz

Fecha de lectura: 21 de octubre de 2016

- The  $\langle \Delta \rangle$  method: an estimator for the mass composition of ultra-high-energy cosmic rays.

Doctorando: Patricia Sánchez Lucas

Director: Antonio Bueno Villar

Fecha de lectura: 20 Enero de 2017

### Grupos de Investigación.

FQM108 ASTROFÍSICA

- Responsable: EDUARDO BATTANER LOPEZ

FQM292 EVOLUCIÓN Y NUCLEOSINTESIS ESTELAR

- Responsable: CARLOS ANTONIO ABIA LADRON DE GUEVARA

FQM330 FÍSICA DE ALTAS ENERGIAS

- Responsable: FERNANDO CORNET SÁNCHEZ DEL ÁGUILA

FQM101 FÍSICA TEÓRICA (PARTÍCULAS ELEMENTALES)

- Responsable: FRANCISCO DEL ÁGUILA GIMÉNEZ

### Dirección y participación en Proyectos I+D

- 2017 Física Teórica de Partículas Elementales, Competitivo, 01/01/2017-31/12/2020

Responsable JOSÉ SANTIAGO PÉREZ

- 2016 Participación de la UGR en ANTARES, KM3NET-ARCA/ORCA y PDG, , 01/01/2016-31/12/2018

Responsable SERGIO NAVAS CONCHA

- 2016 PARTICIPACION DE LA UNIVERSIDAD DE GRANADA EN EL EXPERIMENTO AUGER Y SU FUTURA

MEJORA AUGERPRIME, , 01/01/2016-31/12/2017

Responsable ANTONIO BUENO VILLAR

- 2016 LAS ESTRELLAS DE MASA BAJA E INTERMEDIA COMO MOTORES DE LA EVOLUCIÓN QUÍMICA DE GALAXIAS, PROGENITORES DE SUPERNOVAS TERMONUCLEARES Y LABORATORIO DE ASTROPARTÍCULAS, , 01/01/2016-31/12/2018

Responsable CARLOS ANTONIO ABIA LADRON DE GUEVARA

- 2016 Delaminación, sismicidad y deformación en el borde meridional de la Cordillera Bética, , 01/01/2016-31/12/2019

Investigador DANIEL ALEXANDER STICH

Investigador/a INMACULADA SERRANO BERMEJO

- 2016 Estudio sismológico de los volcanes submarinos del Estrecho de Bransfield (Antártida): entorno geodinámico, estructura y dinámica, , 30/12/2016-29/12/2020

Investigador FRANCISCO JAVIER ALMENDROS GONZALEZ

Investigador/a INMACULADA SERRANO BERMEJO

- 2016 TEORÍAS EFECTIVAS DE COSMOLOGÍA Y GRAVEDAD, Competitivo, 01/01/2016-31/12/2016

Responsable MAR BASTERO GIL

Investigador/a JOSÉ ALBERTO OREJUELA GARCÍA

Investigador/a BERT JANSSEN

- 2016 EXTRACCIÓN DEL CONOCIMIENTO DEL ESTADO DE VOLCANES ACTIVOS Y SU APLICACIÓN EN EL MODELADO DEL PRONÓSTICO DE ERUPCIONES MEDIANTE EL ANÁLISIS AVANZADO DE LA SEÑAL SISMICA, Competitivo, 01/01/2016-31/12/2019

Responsable JESÚS MIGUEL IBÁÑEZ GODOY

- 2016 LAS ESTRELLAS DE MASA BAJA E INTERMEDIA COMO MOTORES DE LA EVOLUCIÓN QUÍMICA DE GALAXIAS, PROGENITORES DE SUPERNOVAS TERMONUCLEARES Y LABORATORIO DE ASTROPARTÍCULAS, Competitivo, 01/01/2016-31/12/2018

Responsable CARLOS ANTONIO ABIA LADRON DE GUEVARA

Responsable INMACULADA DOMÍNGUEZ AGUILERA



- 2016 PARTICIPACION DE LA UGR EN ANTARES, KM3NET-ARCA/ORCA Y PDG, Competitivo, 01/01/2016-31/12/2018  
Responsable SERGIO NAVAS CONCHA
- 2016 'CONTRIBUCION DE LA UGR A LA MISION ESPACIAL PLATO2.0. FASES B2/C', Competitivo, 01/01/2016-31/12/2018  
Participante ANTONIO GARCÍA HERNÁNDEZ  
Participante ANDRES MOYA BEDON  
Responsable JUAN CARLOS SUÁREZ YANES
- 2016 PARTICIPACION DE LA UNIVERSIDAD DE GRANADA EN EL EXPERIMENTO AUGER Y SU FUTURA MEJORA AUGERPRIME, Competitivo, 01/01/2016-31/12/2017  
Responsable ANTONIO BUENO VILLAR
- 2016 DELAMINACION, SISMICIDAD Y DEFORMACION EN EL BORDE MERIDIONAL DE LA CORDILLERA BETICA, Competitivo, 01/01/2016-31/12/2019  
Responsable JOSE MORALES SOTO  
Responsable DANIEL ALEXANDER STICH
- 2016 HELAS IA - European Helio- and Asteroseismology Network, Competitivo, 30/03/2016-31/03/2016  
Responsable JUAN CARLOS SUÁREZ YANES
- 2016 TEORIAS EFECTIVAS DE COSMOLOGIA Y GRAVEDAD, Competitivo, 30/12/2016-29/12/2019  
Responsable MAR BASTERO GIL  
Responsable BERT JANSSEN
- 2016 'EL MODELO ESTANDAR Y SUS EXTENSIONES: CALCULOS PRECISOS Y FENOMENOLOGIA EN GRANDES COLISIONADORES Y OBSERVATORIOS DE ASTROPARTICULAS', Competitivo, 30/12/2016-29/12/2019  
Responsable MANUEL PÉREZ-VICTORIA MORENO DE BARREDA  
Investigador/a JOSÉ SANTIAGO PÉREZ  
Responsable JUAN ANTONIO AGUILAR SAAVEDRA
- 2016 FENOMONOLOGIA DE ASTROPARTICULAS, Competitivo, 30/12/2016-29/12/2019  
Participante ALBA SOTO ONTOSO  
Responsable MANUEL MASIP MELLADO  
Participante PABLO GUERRERO RODRÍGUEZ  
Investigador/a JOSÉ IGNACIO ILLANA CALERO
- 2016 CALCULOS PRECISOS PERTURBATIVOS Y NO- PERTURBATIVOS DE LAS IMPLICACIONES DEL MODELO ESTANDAR Y SUS EXTENSIONES, Competitivo, 30/12/2016-29/12/2019  
Responsable FRANCISCO DEL ÁGUILA GIMÉNEZ  
Responsable MARÍA ELVIRA GÁMIZ SÁNCHEZ
- 2016 ESTUDIO SISMOLOGICO DE LOS VOLCANES SUBMARINOS DEL ESTRECHO DE BRANSFIELD (ANTARTIDA): ENTORNO GEODINAMICO, ESTRUCTURA, Y DINAMICA, Competitivo, 30/12/2016-29/12/2020  
Responsable FRANCISCO JAVIER ALMENDROS GONZALEZ
- 2016 Extraccion del conocimiento del estado de volcanes activos y su aplicacion en el modelado del pronostico de erupciones mediante el analisis avanzado de la señal sísmica, , 01/01/2016-  
Investigador JESUS MIGUEL IBAÑEZ GODOY

#### Contratos de investigación

- 2016 SRA-4.1.2. Geophysical and geotechnical characteristics, Contrato art. 11/45 LRU - 68/83 LOU, 24/10/2016-11/11/2016  
Coordinador JOSE MORALES SOTO

#### Publicaciones en revistas

- 2017 Articulo: Type Ia Supernovae keep memory of their progenitor metallicity, *Astrophysical Journal Letters*, 836, 1, 9-15  
INMACULADA DOMINGUEZ AGUILERA
- 2017 Articulo: Probing the Broad-line Region and the Accretion Disk in the Lensed Quasars HE 0435-1223, WFI 2033-4723, and HE 2149-2745 Using Gravitational Microlensing, *The Astrophysical Journal*, 835, 2, 132-145  
JORGE JIMENEZ VICENTE
- 2017 Articulo: Impact of atmospheric effects on the energy reconstruction of air showers observed by the surface detectors of the Pierre Auger Observatory, *Journal of Instrumentation*, 12, 2, P02006-ANTONIO BUENO VILLAR
- 2017 Articulo: On the (non-)uniqueness of the Levi-Civita solution in the Einstein-Hilbert-Palatini formalism, *Physics Letters B*, 768, , 280-287  
JOSÉ ALBERTO OREJUELA GARCÍA
- 2017 Articulo: Twisted finite-volume corrections to KI3 decays with partially-quenched and rooted-staggered quarks, *The Journal of High Energy Physics*, 1703, 120, -



MARÍA ELVIRA GÁMIZ SÁNCHEZ

- 2017 Artículo: Muon counting using silicon photomultipliers in the AMIGA detector of the Pierre Auger observatory, *Journal of Instrumentation*, 12, 03, 1-24

ANTONIO BUENO VILLAR

SERGIO NAVAS CONCHA

- 2017 Artículo: Tearing of the mantle lithosphere along the intermediate-depth seismicity zone beneath the Gibraltar Arc - The onset of lithospheric delamination, *Geophysical Research Letters*, , , -

DANIEL ALEXANDER STICH

JOSE MORALES SOTO

ROSA MARÍA MARTÍN LEÓN

- 2017 Artículo: Separation of scattering and intrinsic attenuation in Asama volcano (Japan): evidences of high volcanic structural contrasts, *Journal of Volcanology and Geothermal Research*, , , -

JESÚS MIGUEL IBAÑEZ GODOY

- 2017 Artículo: Intrinsic limits on resolutions in muon- and electron-neutrino charged-current events in the KM3NeT/ORCA detector, *The Journal of High Energy Physics*, 5, 008, 1-29

SERGIO NAVAS CONCHA

- 2017 Artículo: LSSGalPy: Interactive Visualization of the Large-scale Environment Around Galaxies, *Publications of the Astronomical Society of the Pacific*, 129, 975, 058005-

SIMON VERLEY

- 2017 Artículo: On the (non-)uniqueness of the Levi-Civita solution in the Einstein-Hilbert-Palatini formalism, *Physics letters. B*, 768, , 280-287

BERT JANSSEN

JOSÉ ALBERTO OREJUELA GARCÍA

- 2017 Artículo: Powerful H<sub>2</sub> Line Cooling in Stephan's Quintet. II. Group-wide Gas and Shock Modeling of the Warm H<sub>2</sub> and a Comparison with [C II] 157.7 nm Emission and Kinematics, *The Astrophysical Journal*, 836, 1, 76-113

UTE LISENFELD

- 2017 Artículo: Search for photons with energies above 10<sup>18</sup> eV using the hybrid detector of the Pierre Auger Observatory, *Journal of Cosmology and Astroparticle Physics*, 1704, 4, 009-

ANTONIO BUENO VILLAR

- 2017 Artículo: A targeted search for point sources of EeV photons with the Pierre Auger Observatory, *Astrophysical Journal*, 837, 2, L25-

ANTONIO BUENO VILLAR

- 2017 Artículo: Combined fit of spectrum and composition data as measured by the Pierre Auger Observatory, *Journal of Cosmology and Astroparticle Physics*, 1704, 4, 038-

ANTONIO BUENO VILLAR

- 2017 Artículo: Two-dimensional multi-component photometric decomposition of CALIFA galaxies, *Astronomy and Astrophysics*, 598, 1, 1-18

ESTRELLA FLORIDO NAVIO

- 2017 Artículo: Resummation of double collinear logs in BK evolution versus HERA data, *Nuclear Physics. A*, , , -

JAVIER LOPEZ ALBACETE

- 2017 Artículo en prensa: Hot spots and the hollowness of proton-proton interactions at high energies, *Physics letters. B*, , , -

ALBA SOTO ONTOSO

JAVIER LOPEZ ALBACETE

- 2017 Artículo en prensa: Correlated wounded hot spots in proton-proton interactions, *Physical Review C - Nuclear Physics*, , , -

ALBA SOTO ONTOSO

JAVIER LOPEZ ALBACETE

- 2017 Artículo: Limits on the Mass and Abundance of Primordial Black Holes from Quasar Gravitational Microlensing, *Astrophysical Journal Letters*, 836, 2, 18-23

JORGE JIMENEZ VICENTE

- 2017 Artículo: Diffuse flux of galactic neutrinos and gamma rays, *Journal of Cosmology and Astroparticle Physics*, 1703, 03, 013-029

MANUEL MASIP MELLADO

- 2017 Artículo en prensa: The Wolf-Rayet star population in the dwarf galaxy NGC 625, *Astronomy and Astrophysics*, , , -

MÓNICA RELAÑO PASTOR

- 2017 Artículo: KIC 8262223: A Post-mass Transfer Eclipsing Binary Consisting of a Delta Scuti Pulsator and a Helium White Dwarf Precursor, *The Astrophysical Journal*, 837, 2, 114-

ANTONIO GARCÍA HERNÁNDEZ

- 2017 Artículo: Evidence of chaotic modes in the analysis of four δ Scuti stars, *Astronomy & Astrophysics*, 601, 54, -



ANTONIO GARCÍA HERNÁNDEZ

- 2016 Artículo: No direct coupling between bending of galaxy disc stellar age and light profiles, Monthly Notices of the Royal Astronomical Society: Letters, 456, 1, L35-L39

ESTRELLA FLORIDO NAVIO

- 2016 Artículo: Outer-disk reddening and gas-phase metallicities: The CALIFA connection, ASTRONOMY AND ASTROPHYSICS, 585, , A47-A75

ESTRELLA FLORIDO NAVIO

- 2016 Artículo: On the dependence of the type Ia SNe luminosities on the metallicity of their host galaxies, The Astrophysical Journal letters, 818, 1, 19-23

INMACULADA DOMINGUEZ AGUILERA

- 2016 Artículo: SN 2014J at M82: I. A middle-class type Ia supernova by all spectroscopic metrics, Monthly Notices of the Royal Astronomical Society, 457, 1, 525-537

INMACULADA DOMINGUEZ AGUILERA

- 2016 Artículo: Testing the molecular-hydrogen Kennicutt-Schmidt law in the low-density environments of extended ultraviolet disc galaxies, Monthly Notices Of The Royal Astronomical Society, 455, 2, 1807-1818

UTE LISENFELD

- 2016 Artículo: Search for correlations between the arrival directions of IceCube neutrino events and ultrahigh-energy cosmic rays detected by the Pierre Auger Observatory and the Telescope Array, Journal of Cosmology and Astroparticle Physics, 1, 037, 1-35

ANTONIO BUENO VILLAR

SERGIO NAVAS CONCHA

- 2016 Artículo: STRUCTURE OF THE ACCRETION DISK IN THE LENSED QUASAR Q2237+0305 FROM MULTI-EPOCH AND MULTI-WAVELENGTH NARROWBAND PHOTOMETRY, The Astrophysical Journal letters, 817, 2, 155-160

JORGE JIMÉNEZ VICENTE

- 2016 Artículo: Type Ia Supernovae: Can Coriolis Force Break the Symmetry of the Gravitational Confined Detonation Explosion Mechanism?, The Astrophysical Journal, 819, 2, 132-145

INMACULADA DOMINGUEZ AGUILERA

- 2016 Artículo: Gamma-Ray emission from SN2014J near maximum optical light, ASTRONOMY AND ASTROPHYSICS, 588, , 67-78

INMACULADA DOMINGUEZ AGUILERA

- 2016 Artículo: One-loop effective lagrangians after matching, The European Physical Journal C, 76, 5, 244-1-244-10

FRANCISCO DEL ÁGUILA GIMÉNEZ

JOSÉ SANTIAGO PÉREZ

- 2016 Artículo:  $B \rightarrow K l + l$ - decay form factors from three-flavor lattice QCD, Physical Review D, 93, 2, 025026-

MARÍA ELVIRA GÁMIZ SÁNCHEZ

- 2016 Artículo:  $B_0(s)$ -mixing matrix elements from lattice QCD for the Standard Model and beyond, Physical Review D (Particles, Fields, Gravitation and Cosmology), 93, 11, 113016-

MARÍA ELVIRA GÁMIZ SÁNCHEZ

- 2016 Artículo: Azimuthal asymmetry in the risetime of the Surface Detector signals of the Pierre Auger Observatory, Physical Review D, 93, 7, 072006-072032

ANTONIO BUENO VILLAR

SERGIO NAVAS CONCHA

- 2016 Artículo: Holographic renormalisation group flows and renormalisation from a Wilsonian perspective, The Journal of High Energy Physics, 2016, 03, 198-

FRANCISCO JAVIER MARTÍNEZ LIZANA

MANUEL PÉREZ-VICTORIA MORENO DE BARREDA

- 2016 Artículo: A realistic model for Dark Matter interactions in the neutrino portal paradigm, JHEP, 1605, 171, 0-22

JOSÉ IGNACIO ILLANA CALERO

- 2016 Artículo: Linear vs non-linear QCD evolution in the neutrino-nucleon cross section, EPJ Web of Conferences, 112, 02013, 02013-1-02013-6

ALBA SOTO ONTOSO

JAVIER LOPEZ ALBACETE

- 2016 Artículo: Herschel Observations of Major Merger Pairs at  $z = 0$ : Dust Mass and Star Formation, Astrophysical Journal, Supplement Series, 222, 2, 16-38

UTE LISENFELD

- 2016 Artículo: Planck 2015 results. XXVII. The second Planck catalogue of Sunyaev-Zeldovich sources, ASTRONOMY AND ASTROPHYSICS, , , 1-38

EDUARDO BATTANER LOPEZ

- 2016 Artículo: Supernovas: Iluminando el Universo, Astronomía, 208, 208, -

INMACULADA DOMINGUEZ AGUILERA



- 2016 Artículo: Supernova 2014J at M82 - II. Direct analysis of a middle-class Type Ia supernova, *Monthly Notices of the Royal Astronomical Society*, 460, 2, 1614-1624  
INMACULADA DOMINGUEZ AGUILERA
- 2016 Artículo: Planck 2015 results. XXVI. The Second Planck Catalogue of Compact Sources, *ASTRONOMY AND ASTROPHYSICS*, 594, A26, 1-39  
EDUARDO BATTANER LOPEZ
- 2016 Artículo: Planck 2015 results. XXV. Diffuse low-frequency Galactic foregrounds, *ASTRONOMY AND ASTROPHYSICS*, 594, A25, 1-45  
EDUARDO BATTANER LOPEZ
- 2016 Artículo: Planck 2015 results. XXIV. Cosmology from Sunyaev-Zeldovich cluster counts, *ASTRONOMY AND ASTROPHYSICS*, 594, A24, 1-19  
EDUARDO BATTANER LOPEZ
- 2016 Artículo: Molecular gas and star formation in the tidal dwarf galaxy VCC 2062, *ASTRONOMY AND ASTROPHYSICS*, 590, , 92-107  
UTE LISENFELD
- 2016 Artículo: Planck 2015 results. XXII. A map of the thermal Sunyaev-Zeldovich effect, *ASTRONOMY AND ASTROPHYSICS*, 594, A22, 1-24  
EDUARDO BATTANER LOPEZ
- 2016 Artículo: Planck 2015 results. XX. Constraints on inflation, *ASTRONOMY AND ASTROPHYSICS*, 594, A20, 1-65  
EDUARDO BATTANER LOPEZ
- 2016 Artículo: Planck 2015 results. XIII. Cosmological parameters, *ASTRONOMY AND ASTROPHYSICS*, 594, A13, 1-63  
EDUARDO BATTANER LOPEZ
- 2016 Artículo: Planck 2015 results. XII. Full focal plane simulations, *ASTRONOMY AND ASTROPHYSICS*, 594, A12, 1-28  
EDUARDO BATTANER LOPEZ
- 2016 Artículo: Planck 2015 results. VII. High Frequency Instrument data processing: Time-ordered information and beams, *ASTRONOMY AND ASTROPHYSICS*, 594, A7, 1-30  
EDUARDO BATTANER LOPEZ
- 2016 Artículo: Planck 2015 results. II. Low Frequency Instrument data processings, *ASTRONOMY AND ASTROPHYSICS*, 594, A2, 1-35  
EDUARDO BATTANER LOPEZ
- 2016 Artículo: Planck 2015 results. I. Overview of products and scientific results, *ASTRONOMY AND ASTROPHYSICS*, 594, A1, 1-38  
EDUARDO BATTANER LOPEZ
- 2016 Artículo: Planck 2015 results. XXVIII. The Planck Catalogue of Galactic cold clumps, *ASTRONOMY AND ASTROPHYSICS*, 594, A28, 1-28  
EDUARDO BATTANER LOPEZ
- 2016 Artículo: Planck 2015 results. XXIII. The thermal Sunyaev-Zeldovich effect-cosmic infrared background correlation, *ASTRONOMY AND ASTROPHYSICS*, 594, A23, 1-17  
EDUARDO BATTANER LOPEZ
- 2016 Artículo: Planck 2015 results. XIX. Constraints on primordial magnetic fields, *ASTRONOMY AND ASTROPHYSICS*, 594, A19, 1-27  
EDUARDO BATTANER LOPEZ  
ESTRELLA FLORIDO NAVIO
- 2016 Artículo: Planck 2015 results. IX. Diffuse component separation: CMB maps, *ASTRONOMY AND ASTROPHYSICS*, 594, A9, 1-42  
EDUARDO BATTANER LOPEZ
- 2016 Artículo: Planck 2015 results. VIII. High Frequency Instrument data processing: Calibration and maps, *ASTRONOMY AND ASTROPHYSICS*, 594, A8, 1-27  
EDUARDO BATTANER LOPEZ
- 2016 Artículo: Planck 2015 results. III. LFI systematic uncertainties, *ASTRONOMY AND ASTROPHYSICS*, 594, A3, 1-32  
EDUARDO BATTANER LOPEZ
- 2016 Artículo: Planck intermediate results. XXXVIII. E- and B-modes of dust polarization from the magnetized filamentary structure of the interstellar medium, *ASTRONOMY AND ASTROPHYSICS*, 586, A141, 1-17  
EDUARDO BATTANER LOPEZ
- 2016 Artículo: Planck intermediate results. XXXVII. Evidence of unbound gas from the kinetic Sunyaev-Zeldovich effect, *ASTRONOMY AND ASTROPHYSICS*, 586, A140, 1-14  
EDUARDO BATTANER LOPEZ
- 2016 Artículo: Planck intermediate results. XXXVI. Optical identification and redshifts of Planck SZ sources with telescopes at the Canary Islands observatories, *ASTRONOMY AND ASTROPHYSICS*, 586, A139, 1-15



EDUARDO BATTANER LOPEZ

- 2016 Artículo: Planck intermediate results. XXXV. Probing the role of the magnetic field in the formation of structure in molecular clouds, ASTRONOMY AND ASTROPHYSICS, 586, A138, 1-29

EDUARDO BATTANER LOPEZ

- 2016 Artículo: Planck intermediate results. XXXIV. The magnetic field structure in the Rosette Nebula, ASTRONOMY AND ASTROPHYSICS, 586, A137, 1-16

EDUARDO BATTANER LOPEZ

- 2016 Artículo: Planck intermediate results. XXXIII. Signature of the magnetic field geometry of interstellar filaments in dust polarization maps, ASTRONOMY AND ASTROPHYSICS, 586, A136, 1-16

EDUARDO BATTANER LOPEZ

- 2016 Artículo: Planck intermediate results. XXXII. The relative orientation between the magnetic field and structures traced by interstellar dust, ASTRONOMY AND ASTROPHYSICS, 586, A135, 1-24

EDUARDO BATTANER LOPEZ

- 2016 Artículo: Planck intermediate results. XXXI. Microwave survey of Galactic supernova remnants, ASTRONOMY AND ASTROPHYSICS, 586, A134, 1-21

EDUARDO BATTANER LOPEZ

- 2016 Artículo: Planck intermediate results. XXX. The angular power spectrum of polarized dust emission at intermediate and high Galactic latitude, ASTRONOMY AND ASTROPHYSICS, 586, A133, 1-25

EDUARDO BATTANER LOPEZ

- 2016 Artículo: Planck intermediate results. XXIX. All-sky dust modelling with Planck, IRAS, and WISE observations, ASTRONOMY AND ASTROPHYSICS, 586, A132, 1-26

EDUARDO BATTANER LOPEZ

- 2016 Artículo: Letter of intent for KM3NeT 2.0, Journal of Physics G: Nuclear and Particle Physics, 43, 084001, 1-130

SERGIO NAVAS CONCHA

- 2016 Artículo: Measurement of the Radiation Energy in the Radio Signal of Extensive Air Showers as a Universal Estimator of Cosmic-Ray Energy, Physical Review Letters, 116, 241101, 1-9

ANTONIO BUENO VILLAR

SERGIO NAVAS CONCHA

- 2016 Artículo: Evidence for a mixed mass composition at the ankle in the cosmic-ray spectrum, Physics letters. B , 762, 288-295

ANTONIO BUENO VILLAR

SERGIO NAVAS CONCHA

- 2016 Artículo: REVIEW OF PARTICLE PHYSICS, CHINESE PHYSICS C, 40, 10, 1-1808

SERGIO NAVAS CONCHA

- 2016 Artículo: Searching for Faraday rotation in cosmic microwave background polarization, Monthly Notices Of The Royal Astronomical Society, 460, 3, 3089-3099

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ESTRELLA FLORIDO NAVIO

- 2016 Artículo: Searching for Faraday rotation in cosmic microwave background polarization, Monthly Notices Of The Royal Astronomical Society, 460, 3, 3089-3099

ESTRELLA FLORIDO NAVIO

- 2016 Artículo: Shape of the oxygen abundance profiles in CALIFA face-on spiral galaxies, ASTRONOMY AND ASTROPHYSICS, 587, A70, 1-21

ESTRELLA FLORIDO NAVIO

- 2016 Artículo: The imprint of satellite accretion on the chemical and dynamical properties of disc galaxies, ASTRONOMY AND ASTROPHYSICS, 586, A112, 1-25

ESTRELLA FLORIDO NAVIO

MARÍA ISABEL PEREZ MARTIN

- 2016 Artículo: Testing Hadronic Interactions at Ultrahigh Energies with Air Showers Measured by the Pierre Auger Observatory, Physical Review Letters, 117, 192001, 1-9

ANTONIO BUENO VILLAR

SERGIO NAVAS CONCHA

- 2016 Artículo: Energy Estimation of Cosmic Rays with the Engineering Radio Array of the Pierre Auger Observatory, Physical Review D, 93, 122005, 1-14

ANTONIO BUENO VILLAR

SERGIO NAVAS CONCHA

- 2016 Artículo: Subsidence and current strain patterns on Tenerife Island (Canary Archipelago, Spain) derived from continuous GNSS time series (2008-2015), Journal of Volcanology and Geothermal Research, 327, , 240-248

MARIA ARACELI GARCIA YEGUAS

- 2016 Artículo: Dust properties in H II regions in M 33, ASTRONOMY AND ASTROPHYSICS, 594, , 43-55

MÓNICA RELAÑO PASTOR



UTE LISENFELD

- 2016 Artículo: Millimeter and submillimeter excess emission in M 33 revealed by Planck and LABOCA, ASTRONOMY AND ASTROPHYSICS, 590, , 56-78

MÓNICA RELAÑO PASTOR

UTE LISENFELD

- 2016 Artículo: No direct coupling between bending of galaxy disc stellar age and light profiles, Monthly Notices of the Royal Astronomical Society, 456, 1, 35-39

ESTRELLA FLORIDO NAVIO

MARÍA ISABEL PEREZ MARTIN

- 2016 Artículo: The multiphase starburst-driven galactic wind in NGC 5394, Monthly Notices Of The Royal Astronomical Society, 461, 1, 6-21

ALMUDENA ZURITA MUÑOZ

JORGE JIMÉNEZ VICENTE

- 2016 Artículo: Size of the Accretion Disk in the Gravitationally Lensed Quasar SDSS J1004+4112 from the Statistics of Microlensing Magnifications, The Astrophysical Journal, 830, 2, 149-154

JORGE JIMÉNEZ VICENTE

- 2016 Artículo: Observations of the Lensed Quasar Q2237+0305 with CanariCam at GTC, ASTROPHYSICAL JOURNAL, 831, 1, 43-50

JORGE JIMÉNEZ VICENTE

- 2016 Artículo: Peculiar Transverse Velocities of Galaxies from Quasar Microlensing. Tentative Estimate of the Peculiar Velocity Dispersion at  $z \sim 0.5$ , The Astrophysical Journal, 832, 1, 46-57

JORGE JIMÉNEZ VICENTE

- 2016 Artículo en prensa: Towards universal hybrid star formation rate estimators, ASTRONOMY AND ASTROPHYSICS, 591, , -

MÓNICA RELAÑO PASTOR

- 2016 Artículo: Planck intermediate results. XLV. Radio spectra of northern extragalactic radio sources, ASTRONOMY AND ASTROPHYSICS, 596, A106, 1-37

EDUARDO BATTANER LOPEZ

- 2016 Artículo: Planck intermediate results. XLII. Large-scale Galactic magnetic fields, ASTRONOMY AND ASTROPHYSICS, 596, A103, 1-28

EDUARDO BATTANER LOPEZ

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