

Instituto Universitario de Investigación Carlos I de Física Teórica y Computacional

Áreas de conocimiento: Física atómica, molecular y nuclear. Física de la materia condensada. Astrofísica. Matemática Aplicada. Física Aplicada.

Directora: Elvira Romera Gutiérrez

Secretario: Miguel Ángel Muñoz Martínez

Página web: <http://www.ic1.ugr.es>

Profesorado: CU Ugr:, 11; CU otras universidades: 9 PTU Ugr: 18; PTU otras universidades: 12; PDI Contratado y Otros Ugr: 7

Tesis leídas

- Interactions involved in the permeation and distribution of ions and biomolecules inside charged microgels

Doctorando: Irene Adroher Benítez

Directores: Arturo Moncho Jordá y Gerardo Odriozola Prego

Fecha de lectura: 7 de abril de 2017

- Phase transitions and diversification in complex systems

Doctorando: Paula Villa Martín

Directores: Miguel A. Muñoz Martínez

Fecha de lectura: 24 de Febrero de 2017

Grupos de Investigación.

FQM108 ASTROFÍSICA

- Responsable: EDUARDO BATTANER LOPEZ

FQM207 FISICA ATOMICA Y MOLECULAR

- Responsable: JESÚS SÁNCHEZ-DEHESA MORENO-CID

FQM357 FISICA DE SISTEMAS COMPLEJOS

- Responsable: PEDRO LUIS GARRIDO GALERA

FQM362 FÍSICA ESTADÍSTICA DE SISTEMAS COMPLEJOS

- Responsable: PEDRO JUAN CARPENA SANCHEZ

FQM165 FÍSICA ESTADÍSTICA Y DE LOS SISTEMAS COMPLEJOS

- Responsable: JOAQUÍN MARRO BORAU

FQM278 FISICA ESTADISTICA Y DE MEDIOS DISPERSOS

- Responsable: JUAN JOSE ALONSO PEREDA

FQM225 FÍSICA NUCLEAR A ENERGÍAS INTERMEDIAS

- Responsable: JOSE ENRIQUE AMARO SORIANO

FQM020 FÍSICA Y QUÍMICA DE LA INFORMACIÓN

- Responsable: JUAN CARLOS ANGULO IBÁÑEZ

FQM381 Nanoestructuras, propiedades cuánticas y aplicaciones tecnológicas

- Responsable: JUAN B. ROLDAN ARANDA

FQM384 Ortogonalidad y Aplicaciones

- Responsable: TERESA ENCARNACIÓN PÉREZ FERNÁNDEZ

Dirección y participación en Proyectos I+D

- 2017 Desarrollo del subsistema de potencia para CubeSats y NanoSatélites, , 01/01/2017-31/12/2018

Investigador/a JUAN B. ROLDAN ARANDA

- 2017 Instituto Carlos I de Física Teórica y Computacional (ic1), Competitivo, 01/01/2017-31/12/2020

Investigador/a DAVID PUERTAS CENTENO

Responsable ELVIRA ROMERA GUTIÉRREZ

- 2016 DESARROLLO DE PANELES SOLARES DESPLEGABLES PARA CUBESATS Y PEQUEÑOS SATELITES:

DISEÑO, FABRICACIÓN, CARACTERIZACIÓN Y VALIDACIÓN (DEEPSAT), , 01/07/2016-31/12/2018

Investigador/a JUAN B. ROLDAN ARANDA

- 2016 Análisis Estructural de Modelos Matemáticos de Optimización en Localización y Planificación del

Transporte, Competitivo, 01/01/2016-31/12/2019

Investigador/a ALEJANDRO ZARZO ALTAREJOS

- 2016 'INTERACCIONES Y PROPIEDADES COLECTIVAS DE SISTEMAS DE MATERIA BLANDA BASADOS EN

NANOGELES/MICROGELES DE INTERES EN NANOTECNOLOGIA', Competitivo, 30/12/2016-29/12/2019

Responsable ARTURO MONCHO JORDÁ

- 2016 TEORIAS EFECTIVAS DE COSMOLOGIA Y GRAVEDAD, Competitivo, 30/12/2016-29/12/2019

Investigador/a PABLO SANCHEZ MORENO

- 2016 Dinámica de sistemas naturales y su efecto en morfología y estructura química, , 15/11/2016-31/12/2019

Investigador JULYAN CARTWRIGHT

Publicaciones en revistas

- 2017 Artículo: Generalized quantum similarity in atomic systems: A quantifier of relativistic effects, Physica A.

- Statistical Mechanics and its Applications, 467, , 315-325
JUAN CARLOS ANGULO IBÁÑEZ
JUAN ANTONIO ANTOLIN COMA
- 2017 Artículo: Double Inverse Stochastic Resonance with Dynamic Synapses, Physical Review E, 95, , 012404-012404
JOAQUIN JAVIER TORRES AGUDO
- 2017 Artículo: Effects of the extension of conductive filaments, a simulation approach, Journal of Vacuum Science&Technology B, 35, 1, 01A105-
JUAN B. ROLDAN ARANDA
- 2017 Artículo: In-depth study of the physics behind resistive switching in TiN/Ti/HfO₂/W structures, Journal of Vacuum Science&Technology B, 35, 1, 01A110-1-01A110-5
JUAN B. ROLDAN ARANDA
- 2017 Artículo: Delocalization properties at isolated avoided crossings in Lipkin-Meshkov-Glick type Hamiltonian models,, Journal of Statistical Mechanics: Theory and Experiment, , , 013101-
ELVIRA ROMERA GUTIÉRREZ
MANUEL CALIXTO MOLINA
- 2017 Artículo: Bivariate orthogonal polynomials, 2D Toda lattices and Lax-type pairs, Applied Mathematics and Computation, 309, , 142-155.
TERESA ENCARNACIÓN PÉREZ FERNÁNDEZ
- 2017 Artículo: Three term relations for a class of bivariate orthogonal polynomials, Mediterranean Journal of Mathematics, 14, 2, 1-26
TERESA ENCARNACIÓN PÉREZ FERNÁNDEZ
- 2017 Artículo: One-Parameter Fisher¿Rényi Complexity: Notion and Hydrogenic Applications, Entropy, 19, , 16-
PABLO SANCHEZ MORENO
JESÚS SÁNCHEZ-DEHESA MORENO-CID
- 2017 Artículo: Thermoresponsive microgels at the air-water interface: the impact of the swelling state on interfacial conformation, Soft Matter, 13, 1, 230-238
ARTURO MONCHO JORDÁ
- 2017 Artículo: Canonical bracket in quantum-classical hybrid systems, Physical Review A, 95, , 012137-1-012137-19
LORENZO LUIS SALCEDO MORENO
- 2017 Artículo: Polynomial pattern finding in scattered data, Journal of Computational and Applied Mathematics, 318, , 107-116
JUAN B. ROLDAN ARANDA
RAFAEL JOSÉ YÁÑEZ GARCÍA
- 2017 Artículo: 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 Artículo: Analysis of the classical phase space and energy transfer for two rotating dipoles with and without external electric field, Physical Review E (Statistical Physics, Plasmas, Fluids, and Related Interdisciplinary Topics), 95, , 012209-1-012209-9
MARIA ROSARIO GONZÁLEZ FÉREZ
- 2017 Artículo: Composite-boson approach to molecular Bose-Einstein condensates in mixtures of ultracold Fermi gases, Physical Review A, 95, , 023617-
PETER ALEXANDER BOUVRIE MORALES
- 2017 Artículo: Superscaling analysis of quasielastic electron scattering with relativistic effective mass, Physical Review D (Particles, Fields, Gravitation and Cosmology), 95, , 076009-1-076009-11
JOSE ENRIQUE AMARO SORIANO
ENRIQUE RUIZ ARRIOLA
- 2017 Artículo: The falsification of Chiral Nuclear Forces, EPJ Web Of Conferences, 137, , 09006-1-09006-6
JOSE ENRIQUE AMARO SORIANO
ENRIQUE RUIZ ARRIOLA
- 2017 Artículo: Relativistic model of 2p-2h meson exchange currents in (anti)neutrino scattering, Journal of Physics G: Nuclear and Particle Physics, 44, 6, 065105-
JOSE ENRIQUE AMARO SORIANO
- 2017 Artículo: A physically based model for resistive memories including a detailed temperature and variability description, Microelectronic Engineering, 178, , 26-29
JUAN B. ROLDAN ARANDA
- 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: Simple unified view of branching process statistics: Random walks in balanced logarithmic potentials, Physical Review E, 96, 3, 032115-

MIGUEL ANGEL MUÑOZ MARTINEZ

- 2017 Artículo: Structure of the optimal path to a fluctuation, Physical Review. E, Statistical, Nonlinear, and Soft Matter Physics, 95, 3, 032119-

PABLO IGNACIO HURTADO FERNANDEZ

PEDRO LUIS GARRIDO GALERA

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

PABLO SANCHEZ MORENO

- 2017 Artículo: The biparametric Fisher-Rényi complexity measure and its application to the multidimensional blackbody radiation, Journal of Statistical Mechanics, , , -

DAVID PUERTAS CENTENO

JESÚS SÁNCHEZ-DEHESA MORENO-CID

- 2017 Artículo: Heisenberg and Entropic Uncertainty Measures for Large-Dimensional Harmonic Systems, Entropy (Basel. Online), , , -

DAVID PUERTAS CENTENO

JESÚS SÁNCHEZ-DEHESA MORENO-CID

- 2017 Artículo: Cement nanotubes: on chemical gardens and cement, Structural Chemistry, 28, 1, 33-37

JULYAN CARTWRIGHT

- 2017 Artículo: Icy hell – a history of ice and snow – part 2 , Weather, 72, 4, 102-106

JULYAN CARTWRIGHT

- 2017 Artículo: Thermodynamics, Disequilibrium, Evolution: Far-From-Equilibrium Geological and Chemical Considerations for Origin-Of-Life Research , Origins of Life and Evolution of the Biosphere, 47, , 39-56

JULYAN CARTWRIGHT

- 2017 Artículo: Rényi entropies and topological quantum numbers in 2D gapped Dirac materials, Physics letters. A, 381, 20, 1753-1756

ELVIRA ROMERA GUTIÉRREZ

- 2017 Artículo: Link between generalized nonidempotency and complexity measures, Journal of Molecular Modeling, 23, , 159-

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- 2017 Artículo: Powerful H2 Line Cooling in Stephan's Quintet. II. Group-wide Gas and Shock Modeling of the Warm H2 and a Comparison with [C II] 157.7 μ m Emission and Kinematics, The Astrophysical Journal, 836, 1, 76-113

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- 2017 Artículo: The frozen nucleon approximation in two-particle two-hole response functions, Physics letters. B, 770, , 193-199

JOSE ENRIQUE AMARO SORIANO

- 2017 Artículo: Proton-proton hollowness at the LHC from inverse scattering, Physical Review. D. Particles and fields, 95, , 074030-1-074030-10

ENRIQUE RUIZ ARRIOLA

- 2017 Artículo: Coarse-grained short-range correlations, Physical Review C - Nuclear Physics, 95, , 054003-1-14

JOSE ENRIQUE AMARO SORIANO

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- 2017 Artículo: Phase transition in the SRG flow of nuclear interactions, Few-Body Systems (Internet), 58, 2, 62-67

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

ESTRELLA FLORIDO NAVIO

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

MÓNICA RELAÑO PASTOR

- 2017 Artículo: Reply to Comment on `A note on heat reservoirs and the like', European Journal Of Physics, , 048002, -

FRANCISCO DE LOS SANTOS FERNÁNDEZ

ANTONIO I. LÓPEZ LACOMBA

- 2017 Artículo: Entropic functionals of Laguerre and Gegenbauer polynomials with large parameters, Journal of Physics A: Mathematical and Theoretical, 50, , 215206-

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- 2017 Artículo: Entropic functionals of Laguerre and Gegenbauer polynomials with large parameters, Journal of Physics A: Mathematical and Theoretical, 50, , 215206-

JESÚS SÁNCHEZ-DEHESA MORENO-CID

- 2017 Artículo: Competition between excluded-volume and electrostatic interactions for nanogel swelling: effects of the counterion valence and nanogel charge, PCCP. Physical Chemistry Chemical Physics, 19, 9, 6838- 6848

ARTURO MONCHO JORDÁ

- 2017 Artículo: Sorption and Spatial Distribution of Protein Globules in Charged Hydrogel Particles, Langmuir, 33, , 4567-4577

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- 2017 Artículo: Conformation change of an isotactic poly (N-isopropylacrylamide) membrane: Molecular dynamics, Journal of Chemical Physics, 146, , 194905-1-194905-11

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- 2017 Artículo: Controlling the s-wave scattering length with nonresonant light: Predictions of an asymptotic model, Physical Review. A, 95, , 023405-1-023405-14

MARIA ROSARIO GONZÁLEZ FÉREZ

- 2016 Artículo: A class of orthogonal functions given by a three term recurrence formula, Mathematics of Computation, 85, 300, 1837-1859

TERESA ENCARNACIÓN PÉREZ FERNÁNDEZ

- 2016 Artículo: Monotone measures of statistical complexity, Physics Letters A, 380, , 377-380

PABLO SANCHEZ MORENO

JESÚS SÁNCHEZ-DEHESA MORENO-CID

- 2016 Artículo: Interplay between Subthreshold Oscillations and Depressing Synapses in Single Neurons, PloS One, 11, 1, e0145830-e0145830

JOAQUIN JAVIER TORRES AGUDO

- 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: Sobolev orthogonal polynomials on the unit ball via outward normal derivatives, Journal of Mathematical Analysis and Applications, 440, , 716-740

TERESA ENCARNACIÓN PÉREZ FERNÁNDEZ

LIDIA FERNÁNDEZ RODRÍGUEZ

- 2016 Artículo en prensa: Matrix Pearson equations satisfied by Koornwinder weights in two variables, Acta applicandae mathematicae, , , -

TERESA ENCARNACIÓN PÉREZ FERNÁNDEZ

- 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: A new parameter to characterize the charge transport regime in Ni/HfO₂/Si-n+-based RRAMs, Solid-State Electronics, 118, , 56-60

JUAN B. ROLDAN ARANDA

- 2016 Artículo: A review of CMOS photodiode modeling and the role of the lateral photoresponse, IEEE Transactions on Electron Devices, 63, , 16-25

JUAN B. ROLDAN ARANDA

- 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 JIMENEZ VICENTE

- 2016 Artículo: Multivariate Orthogonal Polynomials and Modified Moment Functionals, Symmetry, Integrability and Geometry: Methods and Applications (SIGMA), 12, 090, 1-25

TERESA ENCARNACIÓN PÉREZ FERNÁNDEZ

LIDIA FERNÁNDEZ RODRÍGUEZ

- 2016 Artículo: Axial-vector dominance predictions in quasielastic neutrino-nucleus scattering, Physical Review D, 93, , 053002-1-053002-10

JOSE ENRIQUE AMARO SORIANO

ENRIQUE RUIZ ARRIOLA

- 2016 Artículo: Uncertainty quantification of effective nuclear interactions, International Journal of Modern Physics E, 25, , 1641009-1-1641009-16

JOSE ENRIQUE AMARO SORIANO

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- 2016 Artículo: Multipartite concurrence for identical fermions, Physical Review A, 93, 3, 032335-032335

PETER ALEXANDER BOUVRIE MORALES

- ANGEL RICARDO PLASTINO
- 2016 Artículo: The Falsification of Nuclear Forces, EPJ Web of Conferences, 113, , 04021-
JOSE ENRIQUE AMARO SORIANO
ENRIQUE RUIZ ARRIOLA
- 2016 Artículo: Formation spectra of charmed meson χ nucleus systems using an antiproton beam, Physics
letters. B, 754, , 26-32
LORENZO LUIS SALCEDO MORENO
- 2016 Artículo: inclusive electron scattering within the SuSAv2 meson-exchange current approach, Physical
Review. D. Particles and fields, 94, , 013012-1-013012-13
JOSE ENRIQUE AMARO SORIANO
- 2016 Artículo: Three pion nucleon coupling constants, Modern Physics Letters A, 31, 28, 1630027-15
JOSE ENRIQUE AMARO SORIANO
ENRIQUE RUIZ ARRIOLA
- 2016 Artículo: Emission of neutron-proton and proton-proton pairs in neutrino scattering, Physics Letters B,
762, , 124-130
JOSE ENRIQUE AMARO SORIANO
- 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, Astronomy & Astrophys594, id.A27, 38 pp., , 1-38
EDUARDO BATTANER LOPEZ
- 2016 Artículo: Introduction to Focus Issue: Complex Dynamics in Networks, Multilayered Structures and
Systems, Chaos An Interdisciplinary Journal of Nonlinear Science, 26, 6, 065101-065101
JOAQUIN JAVIER TORRES AGUDO
- 2016 Artículo: Emergence of low noise frustrated states in E/I balanced neural networks, Neural networks : the
Official Journal of the International Neural Network Society, 84, , 91-101
JOAQUIN JAVIER TORRES AGUDO
- 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

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- 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

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- 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

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EDUARDO BATTANER LOPEZ

- 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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EDUARDO BATTANER LOPEZ

- 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

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MARÍA ISABEL PEREZ MARTIN

- 2016 Artículo: Emission of neutron-proton and proton-proton pairs in electron scattering induced by meson-exchange currents, *Physical Review C*, 94, , 054610/1-054610/4

JOSE ENRIQUE AMARO SORIANO

- 2016 Artículo: Information-theoretic space from simple atomic and molecular systems to biological and pharmacological molecules, *Theoretical Chemistry Accounts*, 135, 253, 1-6

JUAN CARLOS ANGULO IBÁÑEZ

RODOLFO OCTAVIO ESQUIVEL OLEA

JESÚS SÁNCHEZ-DEHESA MORENO-CID

- 2016 Artículo: NGSmethDB 2017: enhanced methylomes and differential methylation, *Nucleic Acids Research*, 45, , D97-D103

PEDRO JUAN CARPENA SANCHEZ

- 2016 Artículo: Gibbs sampling of complex valued distributions, *Physical Review D*, 94, , 074503-1-074503-21

LORENZO LUIS SALCEDO MORENO

- 2016 Artículo: Does the complex Langevin method give unbiased results?, *Physical Review D*, 94, , 114505-1-114505-23

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- 2016 Artículo: Weak additivity principle for current statistics in d dimensions, *Physical Review E (Statistical Physics, Plasmas, Fluids, and Related Interdisciplinary Topics)*, 93, , 040103(R)-

PEDRO LUIS GARRIDO GALERA

- 2016 Artículo: Violation of universality in anomalous Fourier's law, *Scientific Reports*, 6, , 38823-

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PABLO IGNACIO HURTADO FERNANDEZ

- 2016 Artículo: Intrinsic noise and deviations from criticality in Boolean gene-regulatory networks, *Scientific Reports*, 6, 34743, -

MIGUEL ANGEL MUÑOZ MARTINEZ

- 2016 Artículo: Study of the chemical space of selected bacteriostatic sulfonamides from an information-theoretical point of view, *Chemphyschem*, 17, , 4003-4010

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JESÚS SÁNCHEZ-DEHESA MORENO-CID

- 2016 Artículo: A new compact model for bipolar RRAMs based on truncated-cone conductive filaments: a Verilog-A approach, *Semiconductor Science and Technology (Print)*, 31, 11, 115013-

JUAN B. ROLDAN ARANDA

- 2016 Artículo: Charged-current neutrino-nucleus reactions within the superscaling meson-exchange current approach, *Physical Review D*, 94, , 093004-1-093004-21

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- 2016 Artículo: Hermann von Helmholtz, *REVISTA ESPAÑOLA DE FISICA*, 30, 4, 57-66

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

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MÓNICA RELAÑO PASTOR

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ELVIRA ROMERA GUTIÉRREZ
FRANCISCO DE LOS SANTOS FERNÁNDEZ
- 2016 Poster en Congreso: Saturation and diffusion of helium on graphene: A first-principles study, 2016 E-MRS

- Spring Meeting, 02/05/2016, LILLE (FRANCIA), Congreso
NICOLÁS ALEJANDRO CORDERO TEJEDOR
- 2016 Poster en Congreso: UNIQUE METHODOLOGY TO DEVELOP INNOVATIVE MATERIALS FOR EXTREME APPLICATIONS USING COMPLEMENTARY CAPABILITIES: MULTI-SCALE MODELING, CRITICAL RAW MATERIALS SUBSTITUTION, ECO-DESIGN AND NANOSAFETY ASSESSMENT, Industrial Technologies 2016, 22/06/2016, AMSTERDAM, Congreso
NICOLÁS ALEJANDRO CORDERO TEJEDOR
- 2016 Sesión plenaria en Congreso: Thermal shifts, fluctuations, and missing states, Excited Hyperons in QCD Thermodynamics at Freeze-Out, 16/11/2016, Newport News, VA (EE.UU.), Congreso
LORENZO LUIS SALCEDO MORENO
ENRIQUE RUIZ ARRIOLA
- 2016 Poster en Congreso: Heavy Quark Coupled Channel Dynamics from Thermal Shifts, 12th Conference on Quark Confinement and the Hadron Spectrum, 24/08/2016, Thessaloniki (Grecia), Congreso
LORENZO LUIS SALCEDO MORENO
ENRIQUE RUIZ ARRIOLA
- 2016 Conferencias impartidas: HERMANN VON HELMHOLTZ de la conservación de la energía a la física de los sentidos, Conferencias del Instituto Carlos I: fronteras de la física, 22/01/2016. FACULTAD DE CIENCIAS UNIVERSIDAD DE GRANADA, Congreso
JOSE ENRIQUE AMARO SORIANO
- 2016 Ponencia en Jornada: La Mujer en la Tecnología, Día de la Mujer en la Tecnología, 03/03/2016, Málaga, Jornada
TERESA ENCARNACIÓN PÉREZ FERNÁNDEZ
- 2016 Poster en Exposición: MIT: Mujeres en la Informática y la Telecomunicación, MIT: Mujeres en la Informática y la Telecomunicación, 03/03/2016, Málaga, Exposición
TERESA ENCARNACIÓN PÉREZ FERNÁNDEZ
- 2016 Poster en Congreso: Suppression of star formation in transitioning galaxies in Hickson Compact, The physics and groups and galaxy properties therein, 12/12/2016, Paris (FRANCIA), Congreso
UTE LISENFELD
- 2016 Poster en Congreso: Star formation suppression in galaxies in Hickson Compact Groups, The galaxy life-cycle: From activity to quiescence, and back, across cosmic time, 24/10/2016, VENEZIA (ITALIA), Congreso
UTE LISENFELD
- 2016 Ponencia en Congreso: Star formation suppression in galaxies in Hickson Compact Groups, Mapping the Pathways of Galaxy Transformation Across Time and Space, 01/08/2016, Pasadena, EEUU, Congreso
UTE LISENFELD
- 2016 Comunicación en congreso: Recent progress in quasar microlensing, From theory to applications: celebrating a century of gravitational lensing, 11/07/2016, Leiden (Países Bajos), Congreso
JORGE JIMENEZ VICENTE
- 2016 Ponencia en Congreso: High resolution surface dynamics of the Algeciras Bay (Strait of Gibraltar) by Lagrangian particle tracking system, MONGOOS - 5th General Assembly - WORKSHOP ¿Advances in Oceanographic Modelling in the Mediterranean Sea¿, 15/11/2016, Split (Croacia), Congreso
FRANCISCO JAVIER DE LOS SANTOS RAMOS
- 2016 Comunicación en congreso: Parameter Extraction in Electron Devices by means of Polynomial Pattern Analysis, 16th International Conference on Computational and Mathematical Methods in Science and Engineering, 04/07/2016, Rota, Cádiz, España, Congreso
JUAN B. ROLDAN ARANDA
RAFAEL JOSÉ YÁÑEZ GARCÍA
- 2016 Sesión plenaria en Congreso: Ultralong-range polyatomic Rydberg molecules, 47th Annual Meeting of the APS Division of Atomic, Molecular and Optical Physics, 23/05/2016, Providence, Rhode Island, EEUU, Congreso
MARIA ROSARIO GONZÁLEZ FÉREZ
- 2016 Sesión plenaria en Congreso: Analyzing alignment and orientation, Controlled Molecules Workshop, 25/02/2016, Goslar, Alemania, Congreso
MARIA ROSARIO GONZÁLEZ FÉREZ
- 2016 Sesión plenaria en Congreso: Rydberg Atoms for Quantum Technologies, Rydberg Atoms for Quantum Technologies, 03/03/2016, Okinawa, Japón, Congreso
MARIA ROSARIO GONZÁLEZ FÉREZ
- 2016 Sesión plenaria en Congreso: Rydberg atoms on surfaces, Correlation and order in Rydberg gases, 30/05/2016, Leiden, Holanda, Congreso
MARIA ROSARIO GONZÁLEZ FÉREZ
- 2016 Conferencias impartidas: Non-adiabatic effects in laser orientation and alignment of molecules, Physical Chemistry Colloquium, 04/05/2016, BASILEA (SUIZA), Congreso
MARIA ROSARIO GONZÁLEZ FÉREZ
- 2016 Conferencias impartidas: Alignment & orientation: Non adiabatics dynamics, Course on Advances in



Atomic Physics, 02/03/2016, Okinawa (Japón), Congreso
MARIA ROSARIO GONZÁLEZ FÉREZ

Profesores visitantes

- Muhammet Uzuntarla
Faculty of Bulent Ecevit University, Department of Biomedical at Engineering
Del 20 de enero al 12 de febrero de 2017
- Matteo Martinello
Universidad de Padua (Italia)
Del 11 al 22 de diciembre de 2016
- Virginia Domínguez García
Universidad de Montpellier (Francia)
Del 5 al 18 de febrero de 2017
- Juan José Alonso Pereda
Universidad de Málaga
Del 21 al 26 de agosto de 2016
- Paolo Moretti
Universidad de Nurenberg (Alemania)
Del 24 al 27 de julio de 2016
- Avadh Saxena
Center for Nonlinear Studies. National Laboratory Los Álamos (USA)
Del 2 al 3 de abril de 2017
- Peter Alexander Brouvrie Morales
Centro Brasileiro de Pesquisas Físicas
Del 31 de diciembre de 2016 al 31 de enero de 2017
- Adan Cabello Quintero
Universidad de Sevilla
Del 22 al 23 de noviembre de 2016
- Octavio Héctor Castaños Garza
Universidad Nacional Autónoma de México
Del 21 de enero al 9 de febrero de 2017
- Alejandro Jenkins Villalobos
Universidad de Costa Rica
Del 31 de noviembre al 3 de diciembre de 2016
- Jacobo Ruiz de Elvira Carrascal
Universidad de Berna (Suiza)
Del 19 de diciembre al 22 de diciembre de 2016
- Eugenio Megías Fernández
Universidad del País Vasco
Del 9 al 13 de enero de 2017
- Pere Masjuan Querart
Universidad Autónoma de Barcelona
Del 26 al 27 de abril de 2017
- Wojciech Bogdan Broniowski
H. Niewodniczanski Institute of Nuclear Physics, Polish Academy of Sciences de Cracovia
Del 11 al 17 de septiembre de 2016
- Alejandro Cordero Tejedor
Universidad de Burgos
Del 12 al 19 de febrero de 2017
- Nagy Agnes Ilona
University of Borás. Hungría
Del 23 al 29 de marzo de 2017
- Beatriz Ruiz Granada
Instituto de Astrofísica de Canarias
Del 1 al 8 de abril de 2017-06-06
- Alberto Rubiño Martín
Instituto de Astrofísica de Canarias
Del 2 al 8 de abril de 2017
- Juan José García Ripoll
Instituto de Física Fundamental. CSIC
Del 14 al 16 de mayo de 2017
- Ancor Damas Segovia
Max Planck Institut für Radioastronomie, de Bonn.



Del 24 de marzo al 4 de abril de 2017

- Rafael Roldán Toro

Instituto de Ciencia de Materiales de Madrid, ICMM-CSIC

7 de marzo de 2017

- Belén Valenzuela Requena

Instituto de Ciencia de los Materiales de Madrid (CSIC)

23-24 de marzo de 2017

- Niurka Rodríguez Quintero

Universidad de Sevilla

Del 24 al 26 de noviembre de 2016

- José Adolfo de Azcárraga Feliu

Universidad de Valencia

Del 24 al 26 de noviembre de 2016

- Juan Antonio Bonachela Fajardo

University of Strathclyde

Del 24 al 27 de noviembre de 2016

- M^{ra} José Ruiz Montero

Universidad de Sevilla

Del 24 al 26 de noviembre de 2016

- José Javier Brey Ábalo

Universidad de Sevilla

Del 24 al 26 de noviembre de 2016

- Alejandro Zarzo Altarejos

Universidad Carlos III

Del 24 al 25 de noviembre de 2016

- Juan José Moreno Balcázar

Universidad de Almería

Del 24 al 26 de noviembre de 2016

- Jorge Hidalgo Aguilera

Universidad de Padua (Italia)

Del 2 al 11 de junio de 2017

Otras actividades

- Celebración de las III Jornadas Científicas con motivo del 25 aniversario de la creación del Instituto Carlos I de Física Teórica y Computacional

Lugar de celebración: La Madraza

Fecha: 25 de noviembre de 2016

Actividades:

- Sesión de seminarios de 09:00 a 18:00h
- Inauguración de la exposición 25 aniversario del iC1
- Encuentro de jóvenes investigadores con el Presidente de la RSEF
- Sesión de pósteres