



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

Director: Elvira Romera Gutiérrez

Secretario: Miguel Ángel Muñoz Martínez

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Profesorado: CU:11, PTU:13 ,PTEU:, PDI Contratado y Otros:12.

Tesis leídas

- Medidas entrópicas y de complejidad de funciones especiales y sistemas cuánticos

Doctorando: Ángel Guerrero Martínez

Director: Jesús Sánchez-Dehesa Moreno-Cid y Pablo Sánchez Moreno

Fecha de lectura: 18 de diciembre de 2014

- Medidas Galactic magnetic fields and cosmic ray anisotropies

Doctorando: Joaquín Castellano Simón

Director: Manel Masip y Eduardo Battaner

Fecha de lectura: Mayo de 2015

- Novel mechanisms for phase transitions and self-organization in living systems

Doctorando: Jorge Hidalgo

Director: Miguel Á. Muñoz

Fecha de lectura: Diciembre 2014

- On the architectural features of ecological and biological networks

Doctorando: Virginia Domínguez-García

Director: Miguel Á. Muñoz

Fecha de lectura: Enero 2015

Grupos de Investigación.

FQM108 ASTROFÍSICA

- Responsable: EDUARDO BATTANER LOPEZ

FQM207 FÍSICA ATOMICA Y MOLECULAR

- Responsable: JESÚS SÁNCHEZ-DEHESA MORENO-CID

FQM357 FÍSICA DE SISTEMAS COMPLEJOS

- Responsable: PEDRO LUIS GARRIDO GALERA

FQM165 FÍSICA ESTADÍSTICA Y DE LOS SISTEMAS COMPLEJOS

- Responsable: JOAQUIN JAVIER TORRES AGUDO

FQM225 FÍSICA NUCLEAR A ENERGÍAS INTERMEDIAS

- Responsable: MARÍA CARMEN GARCÍA RECIO

FQM020 FÍSICA Y QUÍMICA DE LA INFORMACIÓN

- Responsable: JUAN CARLOS ANGULO IBÁÑEZ

FQM381 Nanoestructuras, propiedades cuánticas y aplicaciones tecnológicas

- Responsable: ELVIRA ROMERA GUTIÉRREZ

Dirección y participación en Proyectos I+D

- 2015 INFORMACION Y COMPLEJIDAD EN SISTEMAS MULTIELECTRONICOS. APLICACIONES FISICAS, BIOTECNOLOGICAS Y FARMACOLOGICAS, Ministerio de Economía y Competitividad, 01/01/2015-31/12/2017

Responsable JUAN CARLOS ANGULO IBÁÑEZ

- 2014 FÍSICA ESTADÍSTICA DE LOS SISTEMAS COMPLEJOS: DE LOS PRINCIPIOS BÁSICOS A LAS FRONTERAS DE LA FÍSICA DE LA MATERIA, ECOLOGÍA Y NEUROCIENCIA, PLAN NACIONAL DE I+D+I (MINECO), 01/01/2014-31/12/2017

Responsable MIGUEL ANGEL MUÑOZ MARTINEZ

Responsable JOAQUÍN MARRO BORAU

Investigador/a PEDRO LUIS GARRIDO GALERA

Investigador/a PABLO IGNACIO HURTADO FERNANDEZ

Investigador/a FRANCISCO DE LOS SANTOS FERNÁNDEZ

Investigador/a JOAQUIN JAVIER TORRES AGUDO

- 2014 Estudio de propiedades del grafeno. Aspectos teóricos y aplicaciones en biosensores., Proyectos CEI BIOTIC 2014, 28/05/2014-31/12/2014

Investigador/a ENRIQUE RUIZ ARRIOLA

Investigador/a FRANCISCO DE LOS SANTOS FERNÁNDEZ

Coordinador ELVIRA ROMERA GUTIÉRREZ

- 2014 PROPIEDADES ELECTRÓNICAS DEL GRAFENO CON APLICACIONES EN DISPOSITIVOS Y BIOTECNOLÓGICAS, Proyectos de excelencia JUNTA DE ANDALUCÍA, 30/01/2014-30/01/2017

Coordinador ELVIRA ROMERA GUTIÉRREZ



- Investigador/a FRANCISCO DE LOS SANTOS FERNÁNDEZ
Investigador/a ENRIQUE RUIZ ARRIOLA
- 2014 RESEARCHERS SQUARE, EU, 14/05/2014-13/01/2016
Participante ALMUDENA ZURITA MUÑOZ
- 2014 Campus Científicos de Verano CEI BIOTIC 2014, Obra Social "La Caixa", 29/06/2014-26/07/2014
Investigador/a JORGE JIMENEZ VICENTE
- 2014 RESEARCHERS SQUARE, European Union H2020, 14/05/2014-13/05/2016
Investigador/a JORGE JIMENEZ VICENTE

Publicaciones en revistas

- 2015 Artículo: Rounding of abrupt phase transitions in brain networks, Journal of Statistical Mechanics: Theory and Experiment, 2015, , P01003-
MIGUEL ANGEL MUÑOZ MARTINEZ
- 2015 Artículo: STATISTICS OF MICROLENSING CAUSTIC CROSSINGS IN Q 2237+0305: PECULIAR VELOCITY OF THE LENS GALAXY AND ACCRETION DISK SIZE, ASTROPHYSICAL JOURNAL, 798, 2, 138-
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- 2015 Artículo: Magnetic fields and cosmic-ray anisotropies at Tev energies, ASTROPHYSICAL JOURNAL, 799, , 157-164
EDUARDO BATTANER LOPEZ
- 2015 Artículo: Error analysis of nuclear forces and effective interactions, Journal of physics. G, Nuclear and particle physics, 42, , 034013-1-034013-18
ENRIQUE RUIZ ARRIOLA
JOSE ENRIQUE AMARO SORIANO
- 2015 Artículo: Minimally nonlocal nucleon-nucleon potentials with chiral two-pion exchange including δ resonances, Physical review. C. Nuclear physics (Print), 91, , 024003-1-
ENRIQUE RUIZ ARRIOLA
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- 2015 Artículo: Meson-exchange currents and quasielastic predictions for charged-current neutrino-C12 scattering in the superscaling approach, PHYS REV D, 91, , 073004-
JOSE ENRIQUE AMARO SORIANO
- 2015 Artículo: Efficient transmission of subthreshold signals in complex networks of spiking neurons, Plos One, 10, 3, e0121156-e0121156
JOAQUIN JAVIER TORRES AGUDO
JOAQUÍN MARRO BORAU
- 2015 Artículo: Low-energy chiral two-pion exchange potential with statistical uncertainties, Physical review. C. Nuclear physics (Print), 91, , 054002-1-054002-16
ENRIQUE RUIZ ARRIOLA
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- 2015 Artículo: Eluding catastrophic shifts, Proceedings of the National Academy of Science USA, , 201414708, -
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- 2015 Artículo: Complexity analysis of hypergeometric orthogonal polynomials, JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS, 284, , 144-154
ÁNGEL GUERRERO MARTÍNEZ
JESÚS SÁNCHEZ-DEHESA MORENO-CID
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 - 2014 Artículo: Quasi-neutral theory of epidemic outbreaks, PLOS ONE, 6, 7, e21946-+7
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 - 2014 Artículo: Fisher-Shannon product and quantum revivals in wavepacket dynamics, Physica. A (Print), 394, , 394-398
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 - 2014 Artículo: Spontaneously broken neutral symmetry, Physical review letters (Print), 109, , 038102-
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 - 2014 Artículo: Asymptotics of Lq-norms of hypergeometric orthogonal polynomials, Journal of mathematical chemistry, 52, , 283-300
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 - 2014 Artículo: Planck 2013 results. XXIII. Isotropy and statistics of the CMB, ASTRONOMY AND ASTROPHYSICS, 571, , 1-48
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 - 2014 Artículo: error analysis of nuclear matrix elements, Few-body systems, 55, 8-10, 977-981
JOSE ENRIQUE AMARO SORIANO
 - 2014 Artículo: Quenched disorder forbids discontinuous transitions in non-equilibrium low-dimensional systems, PHYSICAL REVIEW E, 89, , 012145-01215
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PABLO IGNACIO HURTADO FERNANDEZ
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 - 2014 Artículo: Frequency moments, Lq norms and Rényi entropies of general hypergeometric polynomials, Journal of mathematical chemistry, 52, , 1372-1385
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 - 2014 Artículo: Design and analysis of demand-adapted railway timetables, JOURNAL OF ADVANCED TRANSPORTATION, 48, 2, 119-137
ALEJANDRO ZARZO ALTAREJOS
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LORENZO LUIS SALCEDO MORENO
 - 2014 Artículo: Leptonic CP violating effective action for Dirac and Majorana neutrinos, JHEP, 2014, 08, 156-1-156-48
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 - 2014 Artículo: Simulation of thermal reset transitions in resistive switching memories including quantum effects, Journal of Applied Physics. American Institute of Physics, 115, , 214504-
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- 2014 Artículo: Phase space analysis of first-, second-, and third-order quantum phase transitions in the Lipkin-Meshkov-Glick model, *Physica scripta (Print)*, 89, , 095103-1-095103-14
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- 2014 Artículo: triton binding energy with realistic statistical uncertainties, *Physical Review C*, 90, , 047001-1-04701-5
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- 2014 Artículo: bootstrapping the statistical uncertainties of NN scattering data, *Physics letters. B (Print)*, 738, , 155-159
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- 2014 Artículo: Planck 2013 results. XXXI. Consistency of the Planck data, *ASTRONOMY AND ASTROPHYSICS*, 571, , 31-56
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- 2014 Artículo: Entanglement and the Born-Oppenheimer approximation in an exactly solvable quantum many-body system, European Physical Journal D, 68, , 346- ANGEL RICARDO PLASTINO JESÚS SÁNCHEZ-DEHESA MORENO-CID
- 2014 Artículo: Information-based fitness and the emergence of criticality in living systems, Proceedings of the National Academy of Sciences of the United States of America, 111, 28, 10095-10100 MIGUEL ANGEL MUÑOZ MARTINEZ
- 2014 Artículo: Relativistic effects in two-particle emission for electron and neutrino reactions, Physical review. D, Particles, fields, gravitation, and cosmology, 90, 3, 033012- JOSE ENRIQUE AMARO SORIANO
- 2014 Artículo: Bet-hedging strategies are maximally efficient in low-dimensional noisy environments, ARXIV.ORG/COND-MAT, , , - MIGUEL ANGEL MUÑOZ MARTINEZ
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DANIEL MANZANO DIOSDADO
 - 2014 Artículo en prensa: Probing local equilibrium in nonequilibrium fluids, PHYSICAL REVIEW E, xxx,
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 - 2014 Artículo: Insect Swarms Go Critical, PHYSICS, 7, , 120-122
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 - 2014 Artículo: The Average Size and Temperature Profile of Quasar Accretion Disks, ASTROPHYSICAL
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 - 2014 Artículo: Angular distribution in two-particle emission induced by neutrinos and electrons,
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- 2014 Hubble et l'expansion de l'Univers: RBA, Paris, 2014, 978-2-8237-0177-7
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- 2014 Título Capítulo: Stellar Populations in the Outskirts of Spiral Galaxies Using IFS CALIFA Data, Título Libro: Structure and Dynamics of Disk Galaxies: ASP Conference Series, , 2014, 978-1-ESTRELLA FLORIDO NAVIO

Contribuciones en congresos

- 2015 Conferencias impartidas: La luz y el Universo, Año Internacional de la luz, 22/04/2015, , Congreso
EDUARDO BATTANER LOPEZ
- 2015 Conferencias impartidas: Campos magnéticos primordiales, XXXV Reunión Bienal RSEF, 13/07/2015, Gijón, Congreso
EDUARDO BATTANER LOPEZ
- 2015 Poster en Congreso: Magnetic fields in the FAN region of the Milky Way, Gas, dust and star-formation in galaxies: from the local to far universe, 25/05/2015, Chania, Creta, Grecia, Congreso
EDUARDO BATTANER LOPEZ
- 2014 Comunicación en congreso: A comprehensive resistive memory characterization through the analysis of conductive filaments, 15th edition of Trends in Nanotechnology International Conference, 27/10/2014, Barcelona (Spain), Congreso
ELVIRA ROMERA GUTIÉRREZ
- 2014 Conferencia Congreso no publicada: Cosmic magnetism and SKA, Spanish participation in SKA,



23/10/2014, Granada, Congreso

EDUARDO BATTANER LOPEZ

- 2014 Comunicación en congreso: Faraday Rotation in CMB maps, The Zeldovich Universe: Genesis and Growth of the Cosmic Web, 23/06/2014, Talin, Estonia, Congreso

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EDUARDO BATTANER LOPEZ

- 2014 Comunicación en congreso: Information processing in neural systems through stochastic resonance phenomena, INTERNATIONAL WORKSHOP IN NEURODYNAMICS, 14/07/2014, Castro Urdiales (Cantabria, Congreso

JOAQUIN JAVIER TORRES AGUDO

- 2014 Comunicación en congreso: MEGARA: a new generation optical spectrograph for GTC, SPIE 9147. Ground-based and Airborne Instrumentation for Astronomy V, 22/06/2014, Montreal, Quebec, Canada, Congreso

JORGE JIMENEZ VICENTE

- 2014 Poster en Congreso: The star formation law in Tidal Dwarf Galaxies, Star formation across space and time, 10/11/2014, Nordwijk, Países Bajos, Congreso

UTE LISENFELD

- 2014 Poster en Congreso: What drives star formation in bars?, Star formation across space and time, 10/11/2014, Nordwijk, Países Bajos, Congreso

UTE LISENFELD

- 2014 Poster en Congreso: Bar effects on ionized gas properties in galaxy centers, Galaxies in 3D across the Universe. IAU Symposium 309, 07/07/2014, , Congreso

ALMUDENA ZURITA MUÑOZ

ESTRELLA FLORIDO NAVIO

- 2014 Poster en Congreso: A 3D view of Galactic winds in Luminous Infrared Galaxies, Galaxies in 3D across the Universe. IAU Symposium 309, 07/07/2014, , Congreso

ALMUDENA ZURITA MUÑOZ

JORGE JIMENEZ VICENTE

- 2014 Poster en Congreso: Faraday rotation and its implications for CMB polarization, Meeting on fundamental cosmology, 05/06/2014, , Congreso

ESTRELLA FLORIDO NAVIO

- 2014 Comunicación en congreso: 2p-2h excitations in neutrino scattering: angular distribution and frozen approximation, 16th International Workshop on Neutrino Factories and Future Neutrino Beam Facilities, 25/08/2014, GLASGOW - REINO UNIDO, Taller de trabajo

JOSE ENRIQUE AMARO SORIANO

- 2014 Poster en Congreso: Relativistic effects and Meson Exchange Currents in two-particle emission with neutrinos, 9th International Workshop on Neutrino-Nucleus Interactions in the Few-GeV region, 19/05/2014, Surrey, Reino Unido, Taller de trabajo

JOSE ENRIQUE AMARO SORIANO

- 2014 Comunicación en congreso: Quark-hadron duality at finite temperature, 54th Cracow School of Theoretical Physics, 12/06/2014, , Congreso

ENRIQUE RUIZ ARRIOLA

- 2014 Comunicación en congreso: Quark Hadron Duality at Finite Temperature, 54th Cracow School of Theoretical Physics, 12/06/2014, Zakopane (Polonia), Congreso

LORENZO LUIS SALCEDO MORENO

ENRIQUE RUIZ ARRIOLA

- 2014 Comunicación en congreso: Heavy Mesons in Nuclear Matter and Nuclei, 4th International Conference on Hadron Physics, 01/07/2014, Canakkale (Turquía), Congreso

LORENZO LUIS SALCEDO MORENO

- 2014 Comunicación en congreso: Building train schedules from frequency maps, VIII ALIO/EURO Workshop on Applied Combinatorial Optimization, 08/12/2014, , Congreso

ALEJANDRO ZARZO ALTAREJOS

- 2014 Comunicación en congreso: Polyakov loop spectroscopy in the confined phase of gluodynamics and QCD, 17th International Conference in Quantum Chromodynamics (QCD 14), 30/06/2014, Montpellier, France, Congreso

ENRIQUE RUIZ ARRIOLA

LORENZO LUIS SALCEDO MORENO

Profesores visitantes

- Jairo Méndez Abreu

Centro de origen: University of St. Andrews(Reino Unido)

Fechas de estancia: 23-28 de marzo de 2015

- José Alberto Rubiño Martín

Centro de origen: Instituto de Astrofísica de Canarias

Fechas de estancia: 15 al 25 de mayo



- Simone Pigolotti
Centro de origen: Universidad Politécnica de Cataluña
Fechas de estancia: 25-29 Mayo 2015
- Serena Di Santo
Centro de origen: Universidad de Parma
Fechas de estancia: 2 semanas en Mayo 2015
- Tomasso Spanio
Centro de origen: Universidad de Padova
Fechas de estancia: Marzo-Junio 2015
- Jesús Cortés
Centro de origen: Universidad de Las Cruces de Bilbao
Fechas de estancia: Varias visitas de una semana en 2015
- J.A. Bonachela
Centro de origen: Universidad de Glasgow(Escocia)
Fechas de estancia: Diciembre 2014
- Samuel Johnson
Centro de origen: Universidad de Warwick (Inglaterra)
Fechas de estancia: Varias visitas de una semana en 2015
- Kunihiro Kaneko
Centro de origen: Universidad de Tokio(Japón)
Fechas de estancia: 10 días en Junio
- Rodolfo Esquivel Olea
Centro de origen: Universidad de México D.F.
Fechas de estancia: Enero 2015
- Sheila López Rosa
Centro de origen: Universidad de Sevilla
Fechas de estancia: 18-25 Abril 2015