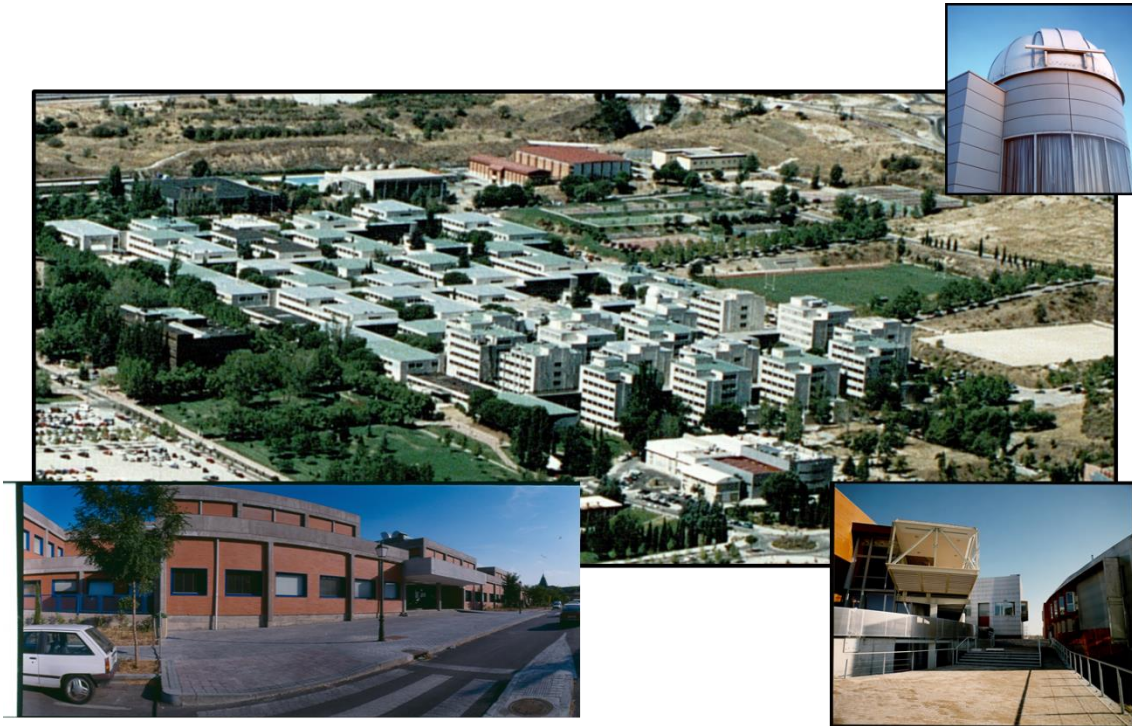




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# MEMORIA DE INVESTIGACIÓN 2016

## DEPARTAMENTO DE FÍSICA TEÓRICA

### MEMORIA DE INVESTIGACIÓN 2016

La presente Memoria de Investigación 2016, elaborada por la Biblioteca de Ciencias, viene a dar cuenta de los resultados de la investigación que se realiza en el Departamento de Física Teórica de la Facultad de Ciencias.

La información procede del Portal de Producción Científica (Imarina), de distintas bases de datos así como de la información suministrada por el personal docente e investigador del Departamento.

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- PROYECTOS DE INVESTIGACIÓN: 23
- AYUDAS INDIVIDUALES: 5
- TESIS DOCTORALES: 15
  - Cuadro con información de las Tesis Doctorales leídas en 2016 en el Departamento y de la Facultad de Ciencias, con información de las dirigidas, tutorizadas y codirigidas en otras instituciones.
  - Relación de completa de Tesis Doctorales ordenadas por programa de Doctorado y título.

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Indicadores de calidad:

Q1: artículos publicados en revistas del primer cuartil

SIN FI: artículos publicados en revistas sin factor de impacto (sin indicador de calidad)

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## OTRAS PUBLICACIONES



Se incluyen monografías, capítulos de libros, conferencias publicadas, correcciones, editoriales, letters, notas, libro de actas, meeting-abstracts y working papers

#### Libros

1) Sánchez Ron, José Manuel . José Echegaray (1832-1916): El Hombre Polifacético : Técnica, ciencia, política y teatro en España. Madrid: Fundación Juanelo Turriano, 2016.

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13) Sabio Vera, A.; Gordo Gómez, D.; Celiberto, F. G.; Chachamis, G.; Caporale, Francesco (2016). Inclusive three jet production at the LHC at 7 and 13 TeV collision energies. XXIV INTERNATIONAL WORKSHOP ON DEEP-INELASTIC SCATTERING AND RELATED SUBJECTS

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19) CMS collaboration; Khachatryan, V; Sirunyan, AM; Tumasyan, A; Adam, W; Asilar, E; Bergauer, T; Brandstetter, J; Brondolin, E; Dragicevic, M; Erö, J; Flechl, M; Friedl, M; Frühwirth, R; Ghete, VM; Hartl, C; Hörmann, N; Hrubec, J; Jeitler, M; Knünz, V; König, A; Krammer, M; Krätschmer, I; Liko, D; Mikulec, I; Rabady, D; Rahbaran, B; Rohringer, H; Schieck, J; Schöffbeck, R; Strauss, J; Treberer-Treberspurg, W; Waltenberger, W; Wulz, C-E; Mossolov, V; Shumeiko, N; Suarez González, J; Alderweireldt, S; Cornelis, T; de Wolf, EA (2016). Erratum to: Comparison of the  $Z/\gamma^* + \text{jets}$  to  $\gamma + \text{jets}$  cross sections in pp collisions at  $\sqrt{s} = 8$  (JHEP, (2015), 10, 128). JOURNAL OF HIGH ENERGY PHYSICS, 2016(4)  
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21) Llorente Merino, Javier; De La Torre Pérez, Héctor; Cantero García, Josu; Arnal Torres, Vanessa; Terron Cuadrado, Juan; Glasman Kuguel, Claudia Beatríz; Del Peso Malagon, José; Barreiro Alonso, Fernando; Aad, G.; Abbott, B.; Abdallah, J.; Khalek, S. Abdel; Abidinov, O.; Aben, R.; Abi, B.; Abolins, M.; AbouZeid, O. S.; Abramowicz, H.; Abreu, H.; Abreu, R.; Abulaiti, Y.; Acharya, B. S.; Adamczyk, L.; Adams, D. L.; Adelman, J.; Adomeit, S.; Adye, T.; Agatonovic-Jovin, T.; Aguilar-Saavedra, J. A.; Agustoni, M.; Ahlen, S. P.; Ahmadov, F.; Aielli, G.; Akerstedt, H.; Akesson, T. P. A.; Akimoto, G.; Akimov, A. V.; Alberghi, G. L.; Albert, J.; Albrand, S.; Alconada Verzini, M. J.; Aleksa, M.; Aleksandrov, I. N.; Alexa, C.; Alexander, G.; Alexandre, G.; Alexopoulos, T.; Alhroob, M. (2016). Measurement of the  $t$  ( $\bar{t}$ ) production cross-section using  $e$   $\mu$  events with  $b$ -tagged jets in pp collisions at  $\sqrt{s} = 7$  and 8 TeV with the ATLAS detector. EUROPEAN PHYSICAL JOURNAL C, 76(11)  
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## Meeting-Abstract

23) CMS Collaboration; Aarrestad, TK; Abbaneo, D; Abbiendi, G; Abbrescia, M; Abdelalim, AA; Abdullin, S; Abdulsalam, A; Abu Zeid, S; Ackert, A; Acosta, D; Acosta, JG; Adair, A; Adam, W; Adams, JR; Adams, MR; Adams, T; Adiguzel, A; Adzic, P; Afanasiev, S; Agapitos, A; Aggleton, R; Agram, J-L; Ahmad, A; Ahmad, M; Ahmed, I; Ahuja, S; Akbiyik, M; Akchurin, N; Akgun, B; Akin, IV; Albajar, C; Albrow, M; Alcaraz Maestre, J; Aldá Júnior, WL; Aldaya Martín, M; Alderweireldt, S; Aleksandrov, A; Alexander, J; Alimena, J (2016). NUCLEAR PHYSICS A, 956(), 945-963  
[https://doi.org/10.1016/S0375-9474\(16\)30233-0](https://doi.org/10.1016/S0375-9474(16)30233-0)

24) Sabio Vera, A; Chachamis, G (2016). The High Energy Radiation Pattern from BFKLex. PROCEEDINGS OF SCIENCE (11-15-April-2016)

25) Sabio Vera, A; Gordo Gómez, D; Celiberto, F; Caporale, F; Chachamis, G (2016). Inclusive three jet production at the LHC at 7 and 13 TeV collision energies. PROCEEDINGS OF SCIENCE (11-15-April-2016)

26) Stewart, I; Preisser, M; Mateu, V; Hoang, A; Dehnadi, B; Butenschoen, M (2016). Top quark mass calibration for Monte-Carlo event generators. PROCEEDINGS OF SCIENCE (11-15-April-2016)

27) Vera, A; Chachamis, G; Celiberto, F; Caporale, F (2016). Inclusive four-jet production: A study of Multi-Regge kinematics and BFKL observables. PROCEEDINGS OF SCIENCE (11-15 April-2016)

## PROYECTOS DE INVESTIGACIÓN

	Proyectos en ejecución	En colaboración
FISICA TEORICA	23	0
TOTAL FACULTAD CIENCIAS	399	80

### 1) Asecade partículas elementales.

Referencia: FPA2012-31880

A desarrollar entre: 2013 - 2016

Investigadores UAM: Pena Ruano, Carlos Roberto / Alonso De Pablo, Rodrigo / Mastrolia, Pierpaolo / Maltoni, Michele / Valenzuela Agüí, Irene / Marcano Imaz, Xabier / Majerotto, Elisabetta / Gavela Legazpi, Maria Belen / Gonzalez-Arroyo España, Antonio / Ibañez Santiago, Luis Enrique / Arana Catania, Miguel / Lopez Martinez, Cayetano / Fernandez Martinez

### 2) Astroparticulas en el universo

Referencia: FPA2012-34694

A desarrollar entre: 2012 - 2016

Investigadores UAM: Muñoz Lopez, Carlos / Garcia Cerdeño, David / Gomez Vargas, German Arturo / Yepes Alonso, Gustavo / Maltoni, Michele / Peiro Garcia, Miguel / Ghosh, Pradipta / Martin Lozano, Victor / Robledo Martin, Luis Miguel / Huh, Ji-Haeng

### 3) ATLAS SM WORKSHOP 2016 - 30, 31 DE MARZO Y 1 DE ABRIL 2016

Referencia: ATLAS SM

A desarrollar entre: 2015 - 2017  
Investigadores UAM: Terron Cuadrado, Juan

**4) Cosmología y fundamental con cartografiados extragalácticos**

Referencia: FPA2013-47986-C03-03

A desarrollar entre: 2014 - 2016

Investigadores UAM: Garcia-Bellido Capdevila, Juan / Nesseris, Savvas

**5) Dark Energy Survey Meeting 5/9 Octubre 2015**

A desarrollar entre: 2015 - 2016

Investigadores UAM: Garcia-Bellido Capdevila, Juan

**6) De piedras a planetas y vuelta a rocas: comprendiendo la formación y destrucción de planetas**

Referencia: AYA2014-55840-P

A desarrollar entre: 2015 - 2017

Investigadores UAM: Villaver Sobrino, Eva Gloria

**7) El papel de los estallidos de formación estelar en la formación y evolución de galaxias: estallidos 5**

Referencia: AYA2013-47742-C4-3-P

A desarrollar entre: 2014 - 2016

Investigadores UAM: Ascasibar Sequeiros, Yago / Diaz Beltran, Angeles Isabel

**8) El proyecto de cosmología numerica marenstrum un laboratorio virtual sobre la evolución del universo.**

Referencia: AYA2012-31101

A desarrollar entre: 2013 - 2016

Investigadores UAM: Yepes Alonso, Gustavo / Knebe, Alexander / Ceverino Rodriguez, Daniel / Sembolini, Federico / Comparat, Johan / Dominguez Tenreiro, Rosa Maria

**9) Elementos de matriz nucleares de la desintegración beta doble sin emisión de neutrinos con métodos avanzados del funcional de la densidad nuclear**

Referencia: FIS2014-53434-P

A desarrollar entre: 2015 - 2017

Investigadores UAM: Rodriguez Frutos, Tomas Raul

**10) Enlarge Horizons 18-25 junio 2015**

A desarrollar entre: 2015 - 2016

Investigadores UAM: Gonzalez-Arroyo España, Antonio

**11) Invisibles**

Referencia: PITN-GA-2011-289442

A desarrollar entre: 2012 - 2016

Investigadores UAM: Gavela Legazpi, Maria Belen

**12) INVISIBLESPLUS**

Referencia: MSCA-RISE-2015-GA690575

A desarrollar entre: 2016 - 2020

Investigadores UAM: Gavela Legazpi, Maria Belen

**13) Neutrinos and other probes for new physics-neuprobes**

Referencia: PCIG11-GA-2012-321582  
A desarrollar entre: 2013 - 2017  
Investigadores UAM: Gavela Legazpi, Maria Belen

**14) Núcleos exóticos en el modelo de capas y más allá del campo medio**

Referencia: FPA2014-57196-C5-2-P  
A desarrollar entre: 2015 - 2017  
Investigadores UAM: Egido De Los Rios, Jose Luis

**15) Participación de la UAM en el experimento CMS del LHC**

Referencia: FPA2014-53938-C3-3-R  
A desarrollar entre: 2015 - 2017  
Investigadores UAM: Fernandez Troconiz Acha, Jorge

**16) Red de Excelencia Consolider: Supercomputación y E-ciencia**

A desarrollar entre: 2014 - 2016  
Investigadores UAM: Yepes Alonso, Gustavo

**17) SPLE - String phenomenology in the LHC era**

Referencia: GA320421  
A desarrollar entre: 2013 - 2018  
Investigadores UAM: Ibañez Santiago, Luis Enrique

**18) Stars, intergalactic medium, galaxies, and the chemistry between them 12-16 abril 2015**

A desarrollar entre: 2015 - 2016  
Investigadores UAM: Ascasibar Sequeiros, Yago

**19) Study of emission line galaxies with integral field spectroscopy - SELGIFS**

Referencia: PIRSES-GA-2013-612701  
A desarrollar entre: 2013 - 2017  
Investigadores UAM: Diaz Beltran, Angeles Isabel

**20) Super-kamiokande plus- skplus**

Referencia: RISE2014  
A desarrollar entre: 2014 - 2018  
Investigadores UAM: Labarga Echeverria, Luis Alfonso

**21) The Orbits and Interactions of Satellite Galaxies: A Fundamental Test of Cosmology**

A desarrollar entre: 2014 - 2016  
Investigadores UAM: Knebe, Alexander

**22) TIER-2 distribuido español para el experimento atlas (LHC) fase 3 y su papel en la gestión y procesamiento de grandes cantidades de datos**

Referencia: FPA2013-47424-C3-2-R  
A desarrollar entre: 2014 - 2016  
Investigadores UAM: Glasman Kuguel, Claudia Beatriz / Peso Malagon, Jose Del

**23) XLIV International meeting on fundamental physics 4-8/abril/2016**

Referencia: IMFP2016  
A desarrollar entre: 2016 - 2016  
Investigadores UAM: Fernandez Troconiz Acha, Jorge



## AYUDAS INDIVIDUALES

	Contratos Predoc	Juan de la Cierva	Ramón y Cajal	Otras	TOTAL
FISICA TEORICA	1	0	4	0	5
TOTAL FACULTAD CIENCIAS	64	8	19	7	98

### Dotación adicional Ayudas para Contratos Predoctorales para la formación de Doctores

**SAA ESPINA, SARA.** Referencia: BES-2013-066480 (2014-2017).

### Dotación Adicional Ramón y Cajal

**BROOK, CHRISTOPHER BRYAN ANDERSON.** Referencia: RYC-2013-12784 (2015-2018).

**HERDOIZA BOLAÑOS, GREGORIO.** (2014-2018).

**MATEU BARREDA, VICENT.** Referencia: RYC-2014-16022 (2015-2019).

**RODRIGUEZ FRUTOS, TOMAS RAUL.** (2014-2017)

## TESIS DOCTORALES 2016

Tesis leídas	Dirigidas	Tutorizadas
15	12	3

## TESIS ORDENADAS POR PROGRAMA DE DOCTORADO

### Programa de Doctorado: Astrofísica (3)

A new perspective on the evolution of galaxies: from global to local scales / Casado Gómez, Javier

Dirigida por: Diaz Beltran, Angeles Isabel ; Ascasibar Sequeiros, Yago

A search of neutral gas outflows in nearby luminous star-forming galaxies / Cazzoli, Sara

Dirigida por: Arribas Mocoroa, Santiago; Maiolino, Roberto.

Desarrollada en: CSIC-INTA. Centro de Astrobiología

Cúmulos jóvenes masivos en el infrarrojo como sondas galáctica / Fuente Guillén, Diego de la

Dirigida por: Najarro de la Parra, Francisco

Tutorizada por: Díaz Beltrán, Ángeles

Desarrollada en: CSIC-INTA. Centro de Astrobiología

### Programa de Doctorado: Biofísica (1)

Bursty Behavioral Dynamics of Activity and Sleep / Sorribes Svensson, Amanda

Dirigida por: García de Polavieja Embid, Gonzalo

### Programa de Doctorado: Física Teórica (11)

Applications of toric Calabi-Yau singularities to Cosmological model building in String Theory / Retolaza Díez, Ander

Dirigida por: Uranga Urteaga, Angel Maria

Collider Phenomenology of Dark Matter Models / Martín Lozano, Víctor

Dirigida por: Cerdeño, David G; Moreno, Jesús

Desarrollada en: Instituto de Física Teórica UAM / CSIC

From F-theory to brane webs non-perturbative effects in type IIB String Theory / Zoccarato, Gianluca

Dirigida por: Marchesano Buznego, Fernando G.

Desarrollada en: Instituto de Física Teórica UAM / CSIC

Gauge symmetries in Quantum Gravity and String Theory / Montero Muñoz, Miguel

Dirigida por: Uranga Urteaga, Angel Maria

Gravitational collapse and holographic thermalization / Abajo Arrastia, Javier

Dirigida por: Lopez Manzanares, Esperanza

Hunting a dynamical Higgs / Brivio, Ilaria

Dirigida por: Gavela Legazpi, Maria Belen

Large scale structure of the universe: from simulations to observations / Ávila Pérez, Santiago Javier

Dirigida por: Garcia-Bellido Capdevila, Juan; Knebe, Alexander

Measurement of photon plus jets production and identification of boosted top quarks in pp collision at the LHC using the Atlas detector / Torre Pérez, Héctor de la

Dirigida por: Terron Cuadrado, Juan

Real Topological String Theory / Piazzalunga, Nicolò

Dirigida por: Uranga Urteaga, Angel Maria

Star-forming galaxies as tools for cosmology with new-generation spectroscopic surveys / Favole, Ginevra

Dirigida por: Prada Martínez, Francisco

Weyl Invariance in the gravitational sector / Herrero Valea, Mario

Dirigida por: Alvarez Vazquez, Enrique

Desarrollada en: Instituto de Física Teórica