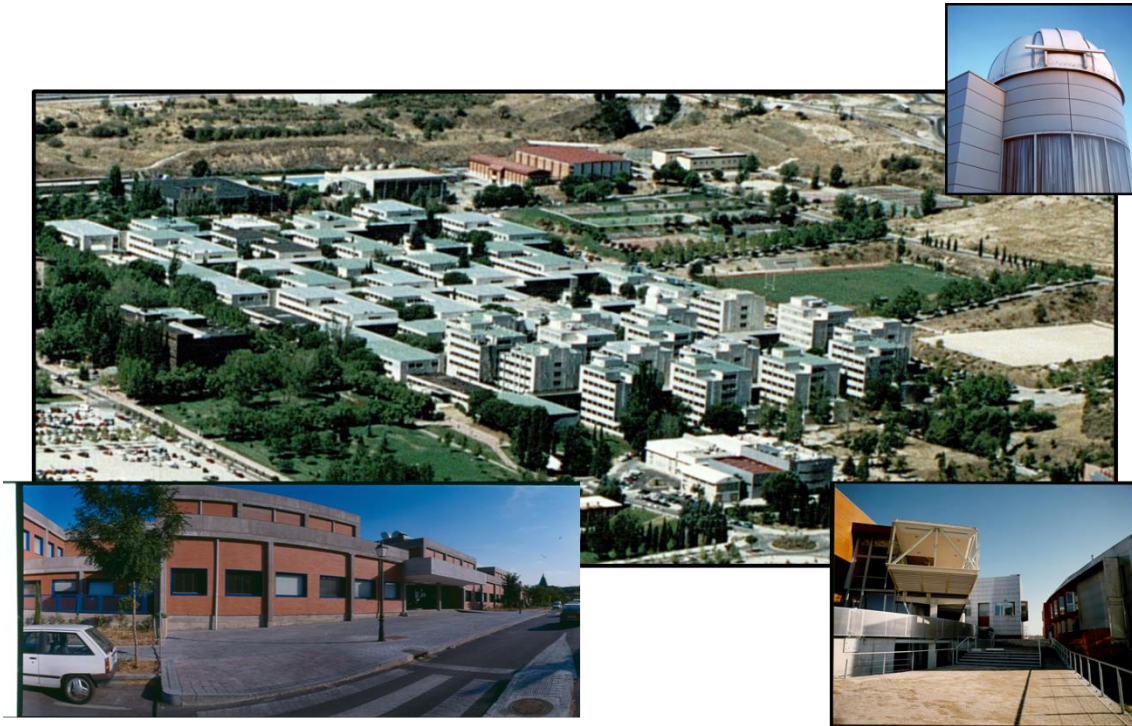




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MEMORIA DE INVESTIGACIÓN 2016

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.

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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.

PUBLICACIONES

	Total	Artículos	Otras publicaciones	% art./total	Ratio Publicaciones /PDI	Indicadores de Calidad			
						Q1	%	SIN FI	%
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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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18) Cms Collaboration; Albajar Molera, María Carmen; Fernández Trocóniz Acha, Jorge; Missiroli, Marino; Moran, Dermot Anthony; et al. (2016). Erratum to: Search for direct pair production of scalar top quarks in the single- and dilepton channels in proton-proton collisions at $\sqrt{s} = 8$ TeV. JOURNAL OF HIGH ENERGY PHYSICS, 2016(9)
[https://doi.org/10.1007/JHEP09\(2016\)056](https://doi.org/10.1007/JHEP09(2016)056)

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[https://doi.org/10.1007/JHEP04\(2016\)010](https://doi.org/10.1007/JHEP04(2016)010)

20) Khachatryan, V.; Sirunyan, A. M.; Tumasyan, A.; Adam, W.; Asilar, E.; Bergauer, T.; Brandstetter, J.; Brondolin, E.; Dragicevic, M.; Eroo, J.; Flechl, M.; Friedl, M.; Frühwirth, R.; Ghete, V. M.; Hartl, C.; Hoermann, N.; Hrubec, J.; Jeitler, M.; Knuenz, V.; Koenig, A.; Krammer, M.; Kraetschmer, I.; Liko, D.; Mikulec, I.; Rabady, D.; Rahbaran, B.; Rohringer, H.; Schieck, J.; Schoefbeck, R.; Strauss, J.; Treberer-Treberspurg, W.; Waltenberger, W.; Wulz, C. -E.; Mossolov, V.; Shumeiko, N.; Suárez Gonzalez, J.; Alderweireldt, S.; Cornelis, T.; De Wolf, E. A.; Janssen, X. (2016). Erratum: Search for third-generation scalar leptoquarks in the t τ channel in proton-proton collisions at $\sqrt{s} = 8$ TeV (vol 7, 042, 2015). JOURNAL OF HIGH ENERGY PHYSICS, 2016(11)
[https://doi.org/10.1007/JHEP11\(2016\)056](https://doi.org/10.1007/JHEP11(2016)056)

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 μ 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)
<https://doi.org/10.1140/epjc/s10052-016-4501-2>

22) Zhu, GB; Comparat, J; Kneib, J-P; Delubac, T; Raichoor, A; Dawson, KS; Newman, J; Yeche, C; Zhou, X; Schneider, DP (2016). Erratum: NEAR-ULTRAVIOLET SPECTROSCOPY of STAR-FORMING GALAXIES from eBOSS: SIGNATURES of UBIQUITOUS GALACTIC-SCALE OUTFLOWS (Astrophysical Journal (2015) 815 (48)). ASTROPHYSICAL JOURNAL, 821(1)
<https://doi.org/10.3847/0004-637X/821/1/71>

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