Prof. Dr. Diego F. Torres — Curriculum Vitae

Personal information & contact

· Address: Institute of Space Sciences, Campus UAB, C. can Magrans s/n 08193 Barcelona, Spain. Phone: +34 93 737 9788. Email: dtorres@ice.csic.es. Birthdate: April 8, 1973. Nationality: Spain & Argentina. Researcher ID: AAF-7931-2019 – ORCID: 0000-0002-1522-9065.

Education (at the National University, La Plata, Argentina)

· Ph.D.: September 4, 1998. Thesis: 'Cosmology and Astrophysics of Scalar-Tensor Gravity'. Grade: 10/10 (highest mark possible). See Awards.

Licenciado en Física: March 20, 1995. Grade: 9.53/10, over 30 oral examinations (1^{st} in class). Thesis: 'Mach's principle, gravity, and thermodynamics'. Grade: 10/10.

Positions and fellowships

· since November 2006: ICREA Research Professor (Astrophysics), Institute of Space Sciences – Institute of Advanced Studies of Catalunya [Internationally-competed full professorship at the highest academic hierarchy in the country, with optional teaching duties, tenured from the start of the post.]
· 2008–2012: Adjunct Professor, Department of Physics, Universitat Autònoma de Barcelona
· 2005–2006: Santiago Ramón y Cajal Fellow, Institute of Space Sciences, Spain (11 months)
· 2002–2005: Ernest Lawrence Fellow, Lawrence Livermore Natl. Lab., USA
· 2001–2002: Postdoctoral Fellow, Physics Dept. Princeton University, USA
· 2001: Staff Scientist, Permanent position at CONICET, Argentina (declined)
· 2000–2001: Associate Professor, Dept. of Mathematics, National University at La Plata, Argentina
· 1999–2000: Postdoctoral Fellow, CONICET, Institute for Radioastronomy, Argentina
· 1998: Chevening Scholar (6 months visiting position) Astronomy Centre of Sussex University, UK
· 1995–1998: PhD. Student Fellow of CONICET, National University at La Plata, Argentina

Visiting positions and membership in teams of research and learned societies

· Member of International Space Science Institute (ISSI) research teams. In China: 'Unifying gamma-ray emission from binaries' (2018–2020), and 'X-ray Binaries' (2015–2016). In Switzerland: 'Transitional pulsars' (2015–2016), and 'Origin of cosmic rays' (2008–2009)
· Remote collaborator, member of USTC research team on high-energy astrophysics, China (since 2022)
· Visiting Professor at: ICRR, Tokyo (10/2024, 1 week); U. Science & Technology of China (07/2024, 2 weeks); Osservatorio Astronomico di Arcetri (11/2019, 3/2021, 3/2022, 2 weeks each); U. Innsbruck (6/2018, 2 weeks); Deutsches Elektronen-Synchrotron (DESY), Zeuthen (4/2013, 1 month); Institute of High Energy Physics (IHEP, Beijing, several 1-week visits from 2013 onwards).
· Duggal Lecturership, U. Delaware (5/2009)
· Associate Scientist, Institut de Fisica d'Altes Energies (IFAE), Barcelona (2005–2006)
· Visiting Scientist at: Scuola Internazionale Superiore di Studi Avanzati (SISSA), Trieste (11/2002, 2 weeks); IFAE (10/2004, 1 month)
· Foreign Associate, Istituto Nazionale di Fisica Nucleare, U. di Salerno (2000–2002, 2 visits of 3 weeks)
· Affiliate Scientist, International Centre for Theoretical Physics, Trieste (6–7/1999, 2 months)
· Ettore Majorana Fellow, Chalonge School of Astrophysics, Sicily (9/1996, 2 weeks)
· Vatican Observatory Fellow, Vatican Summer School on Cosmology, Vatican State (6/1995, 1 month)
· Member of International Astronomical Union, IAU (since 2003), Spanish Astronomical Society, SEA (since 2020) and European Astronomical Society, EAS (since 2020).

Individually named scientific awards and honors

· Presidential International Fellowship Initiative, Chinese Academy of Sciences (CAS), China, 2020:
Full Professor Fellow of the Presidential Fellowship Initiative
· Honorable Mention in the Gravity Foundation Research Awards, USA, 2014:
for the work: In what sense a neutron star-black hole binary is the holy grail for testing gravity?
· Chinese Academy of Sciences Visiting Professorship for Senior International Scientists, China, 2014:
Visiting Professorship Award, at institutes of choice of the CAS
· Friedrich Wilhelm Bessel Award, Alexander von Humboldt Foundation, Germany, 2012:
for his outstanding research on high-energy and gamma-ray astrophysics (45000 €).
· NASA Group Achievement Award, USA, 2010:
for his individual contribution to the team producing the early science results of Fermi-LAT.
· ICREA Conference Award, 2009:
for the organization of the First Session of the Sant Cugat Forum on Astrophysics (25000 €).

- Shakti Duggal Award in Cosmic Ray Physics of the Intl. Union of Pure and Applied Physics, 2007:
  to recognize outstanding work in the field of cosmic ray physics.
- I3 Award, Ministry of Education, Spain, 2007:
  Evaluation of Excellence for Tenured Researchers
- John Simon Guggenheim Foundation Fellowship, USA, 2006:
  to recognize exceptional capacity for productive scholarship (33000 US$).
- Spanish nominee for the European Young Investigator Award (EURYI), 2006:
  Finalist at the European level.
- Lawrence Livermore National Laboratory Award for Excellence in Research, 2004
  for his exceptional scientific productivity, strong impact on a diverse array of topics in high energy astrophysics, and the high visibility brought to Lawrence Livermore Natl. Lab.
- Lawrence Livermore National Laboratory Award for the Best Scientific Contribution by a Fellow, 2004:
  for his work: High energy gamma-rays from stellar associations.
- Young Investigator Awards of Argentina, 2001:
  Awards for independent research of a scientist under 40, in the 'Programa IM-40'.
- Junior Fellow of the International Center for Theoretical Physics, ICTP, Italy, 2001–2006
  Fellowship affiliation with the center, and Visiting Scientist Award, for promising scientists under 35
- Ernesto Galloni Medal in Physics of the National Academy of Sciences of Argentina, 2000:
  for his intense and profound scientific work in astrophysics, cosmology, and gravitation
- Dottori Prize, Joint Award of the Argentinian and Brazilian Astronomical Societies, 2000:
  to the Best Ph.D. Thesis in Astronomy defended in Argentina or Brazil in the triennial 1997-1999
- Juan José Giambiagi Prize, Argentinian Physical Society, 1999:
  to the Best Ph.D. Thesis in Theoretical Physics defended in Argentina in the biennial 1998-1999
- Honorable Mention in the Gravity Foundation Research Awards, USA, 1999:
  for the work: Stellar footprints of a variable G
- Honorable Mention in the Gravity Foundation Annual Research Awards, USA, 1998
  for the work: Wormholes, bursts, and the amount of negative mass in the universe
- Awards to the Best University Students of the Buenos Aires Stock Exchange, Argentina, 1993–1995

Collective scientific awards

- Bruno Rossi Prize, USA, 2011
  To the Fermi-LAT collaboration, for enabling, through the development of the Large Area Telescope, new insights into neutron stars, supernova remnants, cosmic rays, binary systems, active galactic nuclei, and gamma-ray bursts.

Responsibilities at the Institute of Space Sciences, (directorship 2016–2023)

The Institute pertains to the Consejo Superior de Investigaciones Científicas (CSIC), and is affiliated with the Institut d'Estudis Espacials de Catalunya (IEEC). Its areas of research go from engineering applied to space missions to fundamental physics and cosmology, from high-energy astronomy to theoretical astrophysics. It has $>$ 150 members, several departments, laboratories, and owns a 3500 m^2-building. The institute was accredited with the María de Maeztu Excellence Seal in 2021, as one of the top research centers in Spain. Website: `http://www.ice.csic.es`

- Director of the Excellence Grant, María de Maeztu Program (since 1/2022).
- Director of the Institute (2016-2023).
- Head: Department of Astrophysics and Planetary Sciences (2013–2016).
- Member of: Strategy Committee (2006–2016); Office Space Committee (2006–2016), Contact Person of the Research Line on the Extreme Universe (2009–2013), Institute Board (2013–2016).
- Coordinator of the course and lecturer of High Energy Astrophysics, within the Master in Astrophysics of the Institute of Space Sciences (2008–2012). Teaching it in the periods 2012–2014 and 2016–2017.

Main achievements as director of the Institute of Space Sciences, 2016-2023

- I established a new organizational scheme and implemented a management model based on 3 pillars i) decisions are taken at expert level as much as possible, ii) predictability in repetitive procedures, iii) delegation of work comes with the transfer of decision power. I recruited a new institute manager and created an executive and gender balanced management team, established the operational model for the Advanced Engineering Unit, the Outreach Office, and the Equity Committee, as well as prompted discussion and faculty approval over internal protocols and decision-making rules (all from office and lab use to communications, arrival, new staff and senior fellows promotions), which were summarized in

the 'White Book for Internal Operations', which I wrote and was approved by all staff. I also promoted a bottom-up 'ICE Code of Conduct'.

- I established the annual Summer Schools (for 40+ students, with minimal or no fee), the Strategy Retreats (yearly 2-days meeting of the whole institute), the International Advisory Committee (hosting its visit every two years), created several institute-wide positions for postdoctoral fellows, engineers, and students. I created the Thematic Cores program, Outgoing professorships, Students and Fellows Best Contribution awards, and more.
- I created a new institutional website and intranet, as well as the institute's social media, maintaining and improving the Annual Reports. Outreach institutional activities also included the promotion of STEM education in a societally challenged school, a 4-years immersive program to improve science education. I established the Mentorship program, the posts of Ph.D. and Postdoc representatives, the Career Day, the Off-topic Xmas Seminars, and a Debate series.
- The institute left behind in 2017 an annual deficit of 65 KEur, and maintained a balanced accounting since. Operations income increased 2.42x in the period, to about 0.6 MEur. The direct investment including salaries increased to be well in excess of 2 MEur. Grants and contracts managed by the institute averaged 5.5 MEur per year in this period and grew from 4.2 in 2016 to 7.4 MEur in 2022. Two technologies increased their TRL of knowledge transfer to 9. The average yearly amount in contracts with industry or ESA that our personnel acquired in the period increased 5x compared to 2016. I acquired grants totalizing $>$ 6 MEuros to fund direct infrastructure investments for improving new common areas, conference rooms, new laboratory facilities, a new computer cluster, wifi, sustainable heating, renew all furniture, realize actions for occupational hazards, and more.
- The institute was recognized as one of the top research centers in Spain and received the María de Maeztu Seal of Excellence in 2021, which included an award of 2.8 MEur, including Ph.D. fellowships. It also attained a direct investment from the EU/Spanish Resilience Plan after COVID of 1.8 MEur.
- The institute members grew from ∼70 to >120 (60%) in this period, with the administrative and support personnel increasing by 283% due to creation of communication, project management, and maintenance, and the increase of computer support offices; the engineering body increased by 80%, and the number of faculty increased (with 17 new faculty members) from 14 to 31, by 121%.
- I have maintained a full-fledged scientific activity all along the period 2016-2023 in which I was director of the institute, and among others, I published 79 papers in first rate journals (as accounted from my full publication list –without counting papers published as a member of large collaborations) 41% of those as first, second or third author, supervised 4 Ph.D.s, and several postdocs.

Committees, and commissions of trust

- 2017-2023: Committee for Astronomy, Spain (governmental advisory). Secretary 2018-2020; 2023.
- 2017-2021: Intl. Scientific Committee of the Observatories at Canary Islands
- 2016-2020: INTEGRAL Satellite Users Group, European Space Agency
- 2016-2023: Co-Director Institut d'Estudis Espacials de Catalunya
- 2013-2023: Editor-in-Chief, Journal of High Energy Astrophysics, Elsevier
- 2010-2023: Committee for Astronomical Infrastructures (RIA), Spain
- 2009-2019: Founder, director of the Sant Cugat Forum on Astrophysics, a platform for the organization of workshops, sponsored by the Sant Cugat City Hall
- 2006 to date: Founder, leader of the research group on 'Multimessenger Astrophysics'

Reviewing activities

- Journals: Referee for most international journals of astrophysics (8 papers per year on average).
- Tribunals: 12 PhD thesis: Austria (1 in 2020), Italy (4 in 2016), Spain (2 in 2006, 1 in 2012, 1 in 2016, 1 in 2018, 1 in 2020), USA (1 in 2005); and also 1 'Habilitation a diriger des recherches' (France, 2016).

Evaluator for projects and programs of:

Argentina: Agency for Science since 2007; Projects, promotions, and Staff Positions, yearly since 2008; UNLP (reference academic for QS Ranking 2022-2023). **Belgium**: Funds for Scientific Research, in 2019, 2020, 2021, 2022. **Chile**: Ministry of Education, in 2001. **China**: CAS (FAST), in 2023, 2024. **Cyprus**: Research and Innovation Foundation, in 2024. **Colombia**: Doctoral Programs of Universidad Industrial, in 2018. **Denmark**: Cofund Postdoctoral program, U. Copenhagen, in 2019; again as chair in 2021, Professorships in Aarhus U., in 2020 and Copenhagen U., in 2023. **EU**: ESF in 2021, 2023, 2024; College of Expert Reviewers of ESF since 2022, Marie Curie Program in 2024. **France**: Projects for Domains of Major Interest: Origines, in 2024 **Germany**: professorship promotions at DESY, in 2019; DFG in 2017, 2022. **Hong Kong**: Research Grants Council, in 2020 and 2021. **India**: professorship promotions at the Institute of Mathematical Sciences, in 2019, 2022. **Israel**: Science Foundation, in 2016; German Israeli

Foundation for Scientific Research, 2024 **Italy**: Universitá di Padova, in 2010, 2016; and of the INFN, INAF, and ASI in 2017, 2019, 2020. **Mexico**: CONACYT, in 2008 and 2009. **Kazakhstan**: Ministry of Education and Science, 2017, 2024. **Netherlands**: NWO Astroparticle Physics Program Panel, in 2014. **Poland**: Ministry of Science, in 2016; National Science Centre in 2020, in the Panel for Astrophysics, in 2021; as peer reviewer of NCN in 2024. **Portugal**: Fundação para a Ciência e a Tecnologia, Panel Member, Evaluation of the R&D Units Multi-annual Funding Program, in 2024-2025. **Russia**: Ministry of Education, in 2016. Mega-grants program proposals, in 2019. **South Africa**: Projects, professorship promotions for the National Research Foundation, in 2006, 2010, 2011, 2013, 2014, 2015, 2019, 2020, and 2024. **Spain**: National Projects in 2007, 2008, 2010, 2015, 2017, 2024; and Junta de Andalucía in 2009 & 2010; National Staff Scientists, in 2017. **UK**: projects for the STFC, 2020. **USA**: professorship promotions for CfA in 2008.

Work in large collaborations

Fermi-LAT (The Fermi gamma-ray Large Area Space Telescope), Affiliated Scientist (2004-2007); Full Member (2007 to date). My topics of research relate to the pulsar complexes (including supernova remnants, pulsars, binaries, as well as their catalogs); microquasars, starbursts, regions of star formation, cosmic rays, and identification of new source classes. I also helped compiling and analyzing the initial source lists, and specific catalogs of the mentioned source classes.

CTA Consortium (The Cherenkov Telescope Array), since 2007: Physics Coordinator (2007-2014), Leader of Community Link WP of the Preparatory Phase (2009-2014), Member of the Collaboration Board (2009-2016, 2018 to date), Spanish Contact Person (2009-2010), Task Force Group for Collaboration Reform (2022). As Physics Coordinator of CTA, I designed the conceptual workflow and led the numerous group of people that worked to simulate the CTA response to all its key astrophysical problems. I worked on identifying gamma-ray binaries and pevatrons, physics exploitation of the Galactic surveys, evaluating its confusion, simulating cosmic-ray propagation and interaction, studying CTA response to pulsar wind nebulae, supernova remnants, and pulsars, studying the influence of the site selection in regards to astrophysical observations, and more. An initial account of this work was summarized in a book I co-edited in 2013. Relevant internal documentation from this period includes the initial report on the scientific requirements (D. F. Torres, et al., SCI-LINK/121120, 2012), as well as the design concepts (arXiv:1008.3703), and successive technical reports, some submitted as deliverables of an EU Infrastructure project, for which I was responsible of the science chapters. All this work ended up in the CTA Key Science Programs, accounted in the book 'Science with CTA' in 2019 which I co-edited too.

LST Collaboration Full Member (2020 to date), Steering Committee (2024 to date).

MAGIC (Major Atmospheric gamma-ray Imaging Cherenkov Telescope), 2004-2017: Galactic Convener (2006-2010), Time Allocation Committee (2004-2010), Key Programs Panel (2013-2016), Publications Board (2012-2014), Member of the Collaboration Board (2007-2013). As Galactic Convener I was co-responsible of all MAGIC observations and publications in that period, directly leading some. I was PI of many observational proposals on PWN, binaries, and supernova remnants. I continue collaborating with the MAGIC team as an external expert (see publications list).

SKA, Athena, eXTP: Member of different science working groups.

Education of human resources: summary

I supervised the research of 4 MSc students, 14 Ph.D. students (of which 3 have been awarded doctoral prizes), 17 postdocs, mentored 3 Senior Fellows, and 15 engineers: 53 positions in total, involving 50 different persons (30% women) Several of them (15) now have tenured positions: 1 in Argentina, 3 in China, 1 in Denmark, 1 in Germany, 2 in Italy, 1 in India, 1 in Japan, 1 in Poland, and 4 in Spain.

Publications and books: summary

- My main list of publications contains 309 papers in refereed astrophysical journals. I am corresponding (comparable to first author for papers when the latter are done with a larger collaboration), single or first author of 25%; and the corresponding, single, first, or second author of 51% of them (in this latter case, usually a student or postdoc is the first author). Approximately 80% of these 309 papers were published with small groups of authors or by myself alone. The remaining 20% were published with larger collaborations, for which I acted as corresponding author, and/or the main editor, and/or PI/Co-I of the observational proposal, and/or was in the core group in charge of the analysis, interpretation, discussion or paper-writing. My Publications List details my contributions in these latter cases.
- These 309 papers are accessible via a NASA ADS public library: `https://bit.ly/2LtmwAD` where they have 22200+ (ADS) citations, with h-factor 68 .
- Apart from the scientific papers quoted above I have co-authored in an additional set of 298 journal papers as a member of collaborations. Being a member of a collaboration usually implies having responsibilities at the management, technical, or decision-making committees, which are reflected in

co-authorship of the papers that the corresponding instrument produces. I have also provided direct scientific feedback in many of these others papers. Uncut versions of my list of publications thus contains more than 500 peer-reviewed journal papers.

- I am ranked in the top-0.3% (117 out of 42624, and first in Spain) in the Stanford/Elsevier weighted list of astronomers analyzed by Ioannidis et al. PLoS Biol 18(10): e3000918 (2020) and have been ranked similarly in its following updates. I am the most cited physicist in Spain in the ranking elaborated by Research.com
- I have published $>$ 50 additional scientific papers in refereed conference proceedings.
- I have been Editor of 7 books, and written 5 reviews.

Research grants: summary

I managed 10.37 Million Euros (89% of them with direct responsibility as Principal Investigator), in funding schemes of Argentina, China, EU, Spain, and USA.

Talks & Organization of conferences

93 talks in conferences, 62 of them invited. Colloquium or seminar speaker in 57 different institutions, several in repeated occasions. Main organizer of 3 summer schools and 12 international conferences. Participated in 24 additional SOCs.

Main organizer of international scientific meetings and summer schools

- Fourth Summer School of the Institute of Space Sciences: Artificial intelligence in astrophysics, co-organized with A. Serenelli and LL. Gesa, July 14-17, 2020, Barcelona (postponed to July 2021, due to COVID)
- First Summer School of the Institute of Space Sciences: Neutron Stars and their environments, co-organized with A. Serenelli and N. Rea, July 3-7, 2017, Barcelona
- 'Workshop on Modelling Nebulae', June 14-17, 2016, Sant Cugat
- 'Discussion Session on the Gamma-Ray Universe observed with CTA', IAU Gen. Assembly, co-organized with C. Cesarsky, S. Wagner, & H. Sol, August 20-21, 2012, Beijing
- 'Cosmic-ray Phenomenology in Star-Formation Environments', co-organized with O. Reimer, April 16-19, 2012, Sant Cugat
- 'Cosmic Ray Bridging low and high energies', co-organized with S. Markoff and J. Vink, March 14-18, 2011, Leiden
- 'The High-Energy Emission from Pulsars and their Systems', co-organized with N. Rea, April 12-16, 2010, Sant Cugat
- MAGIC 2^{nd} High Energy Astrophysics School, co-organized with J. Cortina and A. Moralejo, February 25-March 1, 2008, Benasque
- 'Kick-off of the CTA Design Study Phase', co-organized with M. Martinez, J. Cortina, and J. Paredes, January 24-25, 2008, Barcelona
- As Physics Coordinator of CTA, I started the LINK Workshop series for discussing CTA synergies with other experiments and communities, helping organize three workshops: in Oxford (Dark matter, particle physicists, and CTA, November 11-12, 2010), Buenos Aires (GeV, cosmic-ray, and neutrino observatories and observers: acceleration of particles from a MW perspective, November 19-21, 2012), and Hakone (X-ray and radio observatories and observers: common problems and future perspectives, November 4-6, 2013).
- 'Workshop on the Multi-messenger Approach to High-Energy gamma-ray Sources', July 4–7, 2006. University of Barcelona, Spain. Co-organized with J. M. Paredes and O. Reimer.

Participation in scientific organizing committees

- Co-convener of the Space Astronomy session, 'International Conference of Deep Space Sciences', Hefei, April 7-11, 2025
- 'Hot Topics on High Energy Astrophysics (Third HONEST Workshop)', Online workshop, November 26-29, 2024
- 'A broadband excursus through stellar afterlife', Firenze, June 5-7, 2024.
- '100 years of Einstein in Catalunya', Barcelona, February 22-23, 2023.
- 'CTA Collaboration meeting', Granada, April 24-28, 2023.
- 'TeVPA Particle Astrophysics Conference', Convener Galactic Session, Chengdu, 25-29 October, 2021.
- '1st Workshop on Gamma-ray Halos around Pulsars', Online workshop, 1-3 December, 2020.
- 'Towards the third decade of X-ray observations', Santa Margarita, Sardegna, 5-8 October, 2020.
- 'Science and development of eXTP in Spain', January 21-22, 2020, Barcelona.

- 'Workshop on Millisecond pulsars, 42nd COSPAR Scientific Assembly', Pasadena, 14–22 July, 2018.
- 'Workshop on Synergies ATHENA/CTA/SKA', EWASS 2017, Prague, Czech Rep., June 26-30, 2017.
- '15 years INTEGRAL Symposium: Energetic Time Domain Astrophysics', Venice October 15-20, 2017.
- 'The gamma-ray sky in the era of Fermi and Cherenkov Telescopes', July, 8-12, 2013, Turku, Finland.
- 'Energetic Phenomena in Pulsar Wind Nebulae', May 22-24, 2013, ESAC, Madrid.
- 'Innsbruck 100th anniversary of V. Hess' discovery of cosmic rays', May 1-3, 2012, Innsbruck, Austria.
- 'Workshop series on the new generation of gamma-ray experiments', held at Elba Island, June 22-22, 2006; Rome, June 20-22, 2007; Padova, October 8-10, 2008; Assisi, September 7-10, 2009; Trieste, September 8-10, 2010; Lecce, June 20-23, 2012, Lisboa, June 4-6, 2014.
- '1^{st} Workshop on gravitation and cosmology', Santa Clara, Cuba, May 25-30, 2004.
- 'International conference on statistical problems in astroparticles', SLAC, USA, September 8-11, 2003.

Outreach and diffusion of science activities

- My website lists some of my press releases and media appearances. My research received numerous press releases from ESA, NASA, in addition to CSIC, IEEC, INAF, DESY, and others. It was also featured several times in newspapers and media of many countries, in NASA-TV podcasts, Physics Today, CERN Courier, New Scientist, The New York Times, People's Magazine, Science, Nature Astronomy, and many others. An incomplete list of these articles, with links, is also quoted in my webpage.
- I was also profiled for the journal 'Recercat' (2018), as well as on the TV show 'Lab 24' for RTVE (2017), wrote a 'behind the paper' article for Nature Astronomy (2018), and also appeared in several radio shows, including 'Principio de Incertidumbre' (2018). I was also featured in the award-winning television documentary, 'El universo extremo' in 2008, as well as in a NASA documentary about the Fermi mission in 2008.
- I maintain a research twitter account (https://twitter.com/DFT_Research) since 2013.
- I founded the Sant Cugat Forum of Astrophysics (2009-2019) and organized its outreach activities https://sites.google.com/view/sant-cugat-forum-astrophysics. These included the Forum Inaugural Act (April 12, 2010), presided by the Sant Cugat Major, at the Sant Cugat's Teatre Auditori, and containing a public talk by. Prof. Jocelyn Bell-Burnell that was simultaneously translated and attended by 550 persons. I printed and distributed 18000 triptychs (in Catalan) and educated high-school teachers of Sant Cugat about the basics of pulsars, who later used it to explain the topic to their students. I also organized the event 'Testimoni del Temps: La visió de l'univers a l'Edat Mitjana', a series of conferences on the universe awareness in the middle ages held at the Sant Cugat Monastery in June 2016. More details and links are provided on my website.
- I founded and contributed to the outreach project *Pulsars @ Barcelona* (2012-2015), a blog about the results of the grant 'Understanding the pulsar zoo' to the general public, active for 3 years along the grant duration. http://pulsarsbarcelona.blogspot.com.es/
- I co-created (with my student C. García) the site *The pulsar tree* for the visualization of the pulsar population using graph theory (2022). http://www.pulsartree.ice.csic.es
- As director of the Institute of Space Sciences from 2016 to 2023 I created the Communication Office and was responsible for the outreach program of the institute, involving both external and internal actions. This is briefly described above in terms of my directorship.

Editorial work – Journal

Editor-in-Chief, Journal of High Energy Astrophysics, Elsevier. 2013-2023

Editorial work – Books

7. Modelling Pulsar Wind Nebulae
   D. F. Torres (Editor)
   November 2017, Springer, ISBN 978-3-319-63030-4. Format: book, hardcover, 313 pages.

6. Science with the Cherenkov Telescope Array
   J. Hinton, R. Ong, and **D. F. Torres** (Editors)
   October 2017, 211 pages. It is also available online in arXiv:1709.07997 and ADS. World Scientific, 2019. Book, hardcover, 364 pages, ISBN 978-981-3270-08-4. [Also co-authored three chapters in the book: *Introduction to CTA Science*; *Synergies*; and *Core Programme Overview*]

5. Cosmic-ray induced phenomenology in star formation environments
   D. F. Torres & O. Reimer (Editors)
   2013, Springer, ISSN 1570-6591. Format: book, hardcover, 440 pages.

4. Seeing the High-Energy Universe with the Cherenkov Telescope Array
   J. Hinton, S. Sarkar, **D. F. Torres**, & J. Knapp (Editors)
   2013, Astroparticle Physics Special Issue, ISSN: 0927-6505. Volume 43, 356 pages.

3. High-Energy Emission from Pulsars and their Systems
   N. Rea & **D. F. Torres** (Editors)
   2011, Springer, ISBN 978-3-642-17250-2. Book, hardcover, 641 pages.

2. The Multi-Messenger Approach to High Energy gamma-ray Sources
   J. M. Paredes, O. Reimer, & **D. F. Torres** (Editors)
   2007, Kluwer Academic Press, ISBN: 978-1-4020-6117-2. Book, hardcover, 544 pages.

1. Proceedings of the International Symposium on Astrophysics Research and Scientific Education
   C. Impey (Editor), A. Alonso, M. Chavez, S. Goedhart, O. Cruz, D. Minitti, & **D. F. Torres** (Editorial Board)
   1999, Vatican Press, Astronomy Series, ISBN 0-268-03155X. Book, softcover, 330 pages.

Review-papers published as chapters of books

5. The high-energy emission of millisecond pulsars [astro-ph/2004.03128]
   D. F. Torres & Jian Li
   Chapter of the book "Millisecond Pulsars", Alessandro Papitto & Dipankar Battacharya (Editors), 2020 in press, Springer, AASL, ISBN 978-3-642-17250-2.

4. Gamma-ray binaries as non-accreting pulsar systems [astro-ph/1008.0483]
   D. F. Torres
   Chapter of the book "High-Energy Emission from Pulsars and their Systems", Nanda Rea & Diego F. Torres (Editors), 2011, Springer, AASL, ISBN 978-3-642-17250-2.

3. Fermi observations of binaries [astro-ph/1008.4762]
   Richard Dubois, Adam Hill & **D. F. Torres**
   Chapter of the book "High-Energy Emission from Pulsars and their Systems", Nanda Rea & Diego F. Torres (Editors), 2011, Springer, AASL, ISBN 978-3-642-17250-2.

2. Gamma-ray astronomy in the summer of 2009 [astro-ph/0909.4999]
   D. F. Torres
   Rapporteur review of the gamma-ray sessions and status of the field at the International Cosmic Ray Conference (ICRC) held in Lodz, July 7-15, 2009. Published as a chapter in the Proceedings

1. Gamma-ray sources at high latitudes [astro-ph/0308069]
   D. F. Torres
   Chapter of the book "Cosmic gamma-ray sources" Edited by G. E. Romero & K. S. Cheng. Published by Kluwer Academic Press, 69-103, 2004. ISBN: 1402022557.

Scientific papers published in international journals

- A searchable link to my main list of publications below is stored in NASA ADS: `https://bit.ly/2LtmwAD`. These publications have been quoted there > 21850 times, with an h-factor of 68.
- When the first author was a student or a postdoc working under my supervision, it is noted with italics.
- In this list, I am only including collaboration papers for which I have scientifically contributed; e.g., to the analysis, interpretation, discussion, or paper-writing, acted as editor, or as PI/Co-I of the observational proposal, or was in the respective core group in charge of the paper. These amount to ∼20% of the papers quoted. I am corresponding author (comparable to 1st-author) in several of them.
- I am corresponding, single or first author of ∼25%; and the corresponding, single, first, or second author of ∼51% of the papers listed.

2025

309. Polarized multiwavelength emission from pulsar wind - accretion disk interaction in a transitional millisecond pulsar [astro-ph/2412.13260]
M. C. Baglio, F. Coti Zelati, A. Di Marco, F. La Monaca, A. Papitto, A. K. Hughes, S. Campana, D. M. Russell, **D. F. Torres**, F. Carotenuto, S. Covino, D. de Martino, S. Giarratana, S. E. Motta, K. Alabarta, P. D'Avanzo, G. Illiano, M. M. Messa, A. Miraval Zanon, N. Rea
Submitted

with the CTA collaboration

308. Galactic transient sources with the Cherenkov Telescope Array [astro-ph/2405.04469]
D. F. Torres' contribution: My Ph.D. student Enrique Mestre was in charge of the Crab flares analysis as part of the his thesis. This is a development of the original science case, where I analyzed feasibility, proposed methodologies for recurrent pointing and possible gamma-ray binary discoveries in the survey, among other topics.
Submitted

2024

307. Separating repeating fast radio bursts using minimum spanning tree as an unsupervised methodology [astro-ph/2411.02216]
C. R. García , **D. F. Torres**, J.M. Zhu-Ge, B. Zhang
ApJ 977, Issue 2, id.273 (2024)

306. Material mixing in pulsar wind nebulae of massive runaway stars [astro-ph/2411.16202]
D. M.-A. Meyer, & **D. F. Torres**
MNRAS, November (2024)

305. Analysis of the possible detection of the pulsar wind nebulae of PSR J1208-6238, J1341-6220, J1838-0537 and J1844-0346 [astro-ph/2410.21038]
W. Zhang, **D. F. Torres**, *C. R. García* , J. Li, *E. Mestre*
A&A 691, id.A332, 9 pp. (2024).

304. Spatio-spectral-temporal Modelling of Two Young Pulsar Wind Nebulae [astro-ph/2410.18386]
A. Kundu, J. C. Joshi, C. Venter, N. E. Engelbrecht, *W. Zhang*, **D. F. Torres**, I. Sushch, S. Tanaka
MNRAS 535, 2415 (2024)

303. Millisecond pulsars phenomenology under the light of graph theory [astro-ph/2410.13650]
C. R. García , G. Illiano, **D. F. Torres**, A. Papitto, F. Coti Zelati, D. de Martino, A. Patruno
A&A 692, id.A187, 14 pp., (2024)

302. Pulsar wind nebulae meeting the circumstellar medium of their progenitors [astro-ph/2409.15829]
D. M.-A. Meyer, Z. Meliani, **D. F. Torres**
A&A 692, id.A207, 19 pp (2024)

301. Short-term variability of the transitional pulsar candidate CXOU J110926.4650224 from X-rays to infrared [astro-ph/2409.11719]
F. Coti Zelati, D. de Martino, V. S. Dhillon, T. R. Marsh, F. Vincentelli, S. Campana, **D. F. Torres**, A. Papitto, M. C. Baglio, A. Miraval Zanon, N. Rea, J. Brink, D. A. H. Buckley, P. D'Avanzo, G. Illiano, A. Manca, & A. Marino
A&A 690, id.A220, 11 pp. (2024)

300. X-ray and optical observations of the millisecond pulsar binary PSR J1431-4715 [astro-ph/2409.02075]
D. de Martino, A. Phosrisom, V. Dhillon, **D. F. Torres**, F. Coti Zelati, R. Breton, T. R. Marsh, A. Miraval Zanon, N. Rea, & A. Papitto
A&A 691, id.A36, 15 pp. (2024)

299. X-Ray Hardening Preceding the Onset of SGR 1935+2154's Radio Pulsar Phase [astro-ph/2308.08832]
P. Wang, J. Li, L. Ji, X. Hou, E. Gugercinoglu, D. Li, **D. F. Torres**, et al. (35 authors)
ApJ Supplement 275, Issue 2, id.39, 17 pp. (2024)

298. Supernova remnants of red supergiants: from barrels to Cygnus loops [astro-ph/2404.07873]
D. M.-A. Meyer, P. F. Velazquez, M. Pohl, K. Egberts, M. Petrov, M. A. Villagran, **D. F. Torres**, & R. Barzofin
A&A 687, id. A127, 17 pp. (2024)

297. Synchro-curvature description of γ-ray light curves and spectra of pulsars: global properties [astro-ph/2404.01926]
D. Iñiguez, **D. F. Torres**, & D. Viganó
MNRAS 530, 1550-1562, (2024)

296. Characterizing the Gamma-ray Emission Properties of the Globular Cluster M5 with *Fermi*-LAT [astro-ph/2401.08231]
X. Hou, *W. Zhang*, P. Freire, **D. F. Torres**, J. Ballet, D. Smith, T. Johnson, C. Cheung, L. Guillemot, J. Li, L. Zhang, A. Ridolfi, Z. Pan, P. Wang, D. Li, J. Yuan, & N. Wang
ApJ 964, article id. 118, (2024)

295. On the plerionic rectangular supernova remnants of static progenitors [astro-ph/2311.06817]
D. M.-A. Meyer, Z. Meliani, P. F. Velazquez, M. Pohl, & **D. F. Torres**
MNRAS 527, 5514-5524 (2024)

with the CTA collaboration

294. Prospects for a survey of the Galactic plane with the Cherenkov Telescope Array [astro-ph/2310.02828]
D. F. Torres' contribution: Development of the original science case, where I analyzed feasibility via scheduling, possibility of pinpointing gamma-ray binaries and pevatrons as a result of the GPS, studied MC and PWNe possible survey results, including confusion.
JCAP, 10, 081 (2024)

with the LST collaboration

293. A detailed study of the Very-High-Energy Crab Pulsar emission with the LST-1 telescope
D. F. Torres' contribution: To discussion and paper writing.
A& A 690, id.A167, 12 pp. (2024)

2023

292. Reverberation of pulsar wind nebulae (III): Modelling of the plasma interface empowering long-term radiative evolution [astro-ph/2307.13491]
R. Bandiera, N. Bucciantini, B. Olmi, **D. F. Torres**
(Stated in the paper frontpage: all authors have contributed equally)
MNRAS 525, 2839-2850 (2023)

291. Matter ejections behind the highs and lows of the transitional millisecond pulsar PSR J1023+0038 [astro-ph/2305.14509]
M. C. Baglio, F. Coti Zelati, S. Campana, G. Busquet, P. D'Avanzo, S. Giarratana, M. Giroletti, F. Ambrosino, S. Crespi, A. Miraval Zanon, X. Hou, D. Li, J. Li, P. Wang, D. M. Russell, **D. F. Torres**,

K. Alabarta, P. Casella, S. Covino, D. M. Bramich, D. de Martino, M. Méndez, S. E. Motta, A. Papitto, P. Saikia, F. Vincentelli
A&A 677, id.A30 (2023)

290. Quantitative determination of minimal spanning tree structures: Using the pulsar tree for analyzing the appearance of new classes of pulsars [astro-ph/2301.05408]
C. R. García, **D. F. Torres**
MNRAS 520, 599-610 (2023)

289. Reverberation of pulsar wind nebulae (II): Anatomy of the 'thin-shell' evolution [astro-ph/2301.04056]
R. Bandiera, N. Bucciantini, *J. Martín*, B. Olmi, **D. F. Torres**
(Stated in the paper frontpage: all authors have contributed equally)
MNRAS 520, 2451-2472 (2023)

288. Deep search for gamma-ray emission from the accreting X-ray pulsar 1A 0535+262 [astro-ph/2301.01423]
X. Hou, *W. Zhang*, **D. F. Torres**, L. Ji, J. Li
ApJ 944, Issue 1, id.57, 8 pp. (2023)

287. Investigating the origin of optical and X-ray pulsations of the transitional millisecond pulsar PSR J1023+0038 [astro-ph/2211.12975]
G. Illiano, A. Papitto, F. Ambrosino, A. Miraval Zanon, F. Coti Zelati, L. Stella, L. Zampieri, A. Burtovoi, S. Campana, P. Casella, M. Cecconi, D. de Martino, M. Fiori, A. Ghedina, M. Gonzales, M. Hernandez Diaz, G.L. Israel, F. Leone, G. Naletto, H. Perez Ventura, C. Riverol, L. Riverol, **D. F. Torres**, M. Turchetta
A&A 669, A26 (2023)

with the Fermi-LAT collaboration

286. The third Fermi-LAT pulsar catalog [astro-ph/2307.11132]
D. F. Torres' contribution: to the discussion, spectral interpretation, paper writing iterations.
ApJ Supplement 958, 191 (2023)

2022

285. LHAASO J2226+6057 as a pulsar wind nebula [astro-ph/2209.13285]
A. De Sarkar, *W. Zhang*, *J. Martín*, **D. F. Torres**, J. Li, & X. Hou
A&A 668, id.A23 (2022)

284. Testing source confusion and identification capability in Cherenkov Telescope Array data [astro-ph/2210.04344]
E. Mestre, **D. F. Torres**, E. de Oña Wilhelmi, & J. Martí
MNRAS 517, 3550-3567 (2022)

283. How unique are pulsar wind nebulae models? Implementation of a multi-parameter, automatic fitting for time-dependent spectra [astro-ph/2209.12397]
J. Martín, **D. F. Torres**
JHEAp 36, 128-140 (2022)

282. Synchro-curvature interpretation of high-energy pulsar's spectra requires very localized emitting regions [astro-ph/2208.05549]
D. Iñiguez, D. Viganò, **D. F. Torres**
MNRAS 516, 2475-2485 (2022)

281. Visualizing the pulsar population using graph theory [astro-ph/2207.06311]
C. R. García, **D. F. Torres**, A. Patruno
MNRAS 515, 3883-3897 (2022)

280. Inferring pulsar periods from synchro-curvature spectra [astro-ph/2203.09423]
D. Iñiguez, **D. F. Torres**, D. Viganò
ApJ 933, article id 234, 6pp. (2022)

279. Radio pulsations from a neutron star within the gamma-ray binary LS I 61 +303 [astro-ph/2203.09423]
S. Weng, L. Qian, B. Wang, **D. F. Torres**, A. Papitto, P. Jiang, R. Xu, J. Li, J. Yan, Q. Liu, M. Ge, Q. Yuan
(S. Weng and **D. F. Torres** are corresponding auhors)
Nature Astronomy 6, 698-702 (2022) – cover of the journal issue in June 2022

2021

278. Simultaneous X-ray and radio observations of the transitional millisecond pulsar candidate CXOU J110926.4–650224: The discovery of a variable radio counterpart [astro-ph/2109.13281]
F. Coti Zelati, B. Hugo, **D. F. Torres**, D. de Martino, A. Papitto, D. A. H. Buckley, T. D. Russell, S. Campana, R. Van Rooyen, E. Bozzo, C. Ferrigno, J. Li, S. Migliari, I. Monageng, N. Rea, M. Serylak, B. W. Stappers, and N. Van Jaarsveld
A&A 655, id.A52, 10 pp. (2021)

277. Revisiting the evolution of nonradiative supernova remnants: A hydrodynamical-informed parameterization of the shock positions [astro-ph/2109.03612]
R. Bandiera, N. Bucciantini, *J. Martín*, B. Olmi, **D. F. Torres**
(Stated in the paper frontpage: all authors have contributed equally)
MNRAS 508, 3194-3207 (2021)

276. Back to quiescence: post-outburst evolution of the pulsar J1119–6127 and its wind nebula [astro-ph/2106.12018]
H. Blumer, S. Safi-Harb, A. Borghese, *J. Martín*, M. A. McLaughlin, **D. F. Torres**, & G. Younes
ApJ 917, id.56, 8 pp (2021)

275. Probing the hadronic nature of the gamma-ray emission associated with Westerlund 2 [astro-ph/2109.07823]
E. Mestre, E. de Oña Wilhelmi, **D. F. Torres**, T. Holch, U. Schwanke, F. Aharonian, P. Saz Parkinson, R. Yang, R. Zanin
MNRAS 505, 2731-2740 (2021)

274. Investigating the nature of MGRO J1908+06 with multiwavelength observations [astro-ph/2102.05615]
J. Li, R. Liu, E. de Oña Wilhelmi, **D. F. Torres**, Q. Liu, M. Kerr, R. Buehler, Y. Su, H. He, M. Xiao
ApJ Letters 913, 33 (2021)

273. Optical and ultraviolet pulsed emission from an accreting millisecond pulsar [astro-ph/2102.11704]
F. Ambrosino, A. Miraval Zanon, A. Papitto, F. Coti Zelati, S. Campana, P. D'Avanzo, L. Stella, T. Di Salvo, L. Burderi, P. Casella, A. Sanna, D. de Martino, M.Cadelano, A. Ghedina, F. Leone, F. Meddi, P. Cretaro, M. C. Baglio, E. Poretti, R. P. Mignani, **D. F. Torres**, G. L. Israel, M. Cecconi, D. M. Russell, M. D. Gonzalez Gomez, A. L. Riverol Rodriguez, H. Perez Ventura, M. Hernandez Diaz, J. J. San Juan, D. M. Bramich, & F. Lewis
Nature Astronomy 5, pages 552-559 (2021).

272. The Crab nebula variability at short timescales with the Cherenkov Telescope Array [astro-ph/2011.08586]
E. Mestre, E. de Oña Wilhelmi, D. Khangulyan, R. Zanin, F. Acero, & **D. F. Torres**
MNRAS 501, 337-346 (2021)

with the Fermi-LAT collaboration

271. High-Energy Emission from a Magnetar Giant Flare in the Sculptor Galaxy
Nature Astronomy, 5, 385-391 (2021)
D. F. Torres' contribution: to the discussion of interpretation and implications of the observations.

270. Gamma rays from fast black-hole winds [astro-ph/2105.11469]
D. F. Torres' contribution: to the discussion of interpretation and implications of the observations.
ApJ 921, 144 (2021)

with the MAGIC collaboration

269. Search for Very High Energy Emission from the millisecond pulsar J0218+4232 [astro-ph/2108.11373]
D. F. Torres' contribution: Invited to participate as an external author. Theoretical analysis of data, model shown in figure 9 and associated discussion and conclusions.
ApJ 922, Issue 2, id.251, 14 pp. (2021)

268. Observation of the gamma-ray binary HESS J0632+057 with the H.E.S.S., MAGIC, and VERITAS telescopes [astro-ph/2109.11894]
D. F. Torres' contribution: Invited to participate as an external author of all these collaborations. Theoretical discussion and collaboration in the writing of the paper.
ApJ, 923, id.241, 30 pages (2021)

2020

267. Exploring the effects of magnetar bursts in pulsar wind nebulae [astro-ph/2009.07737]
J. Martín, **D. F. Torres**, B. Zhang
JHEAp 28, 10-18 (2020)

266. Reverberation of pulsar wind nebulae (I): Impact of the medium properties and other parameters upon the extent of the compression [astro-ph/2009.10992]
R. Bandiera, N. Bucciantini, *J. Martín*, B. Olmi, **D. F. Torres**
(Stated in the paper frontpage: all authors have contributed equally)
MNRAS 499, 2051-2062 (2020)

265. Gamma-ray heartbeat powered by the microquasar SS 433 [astro-ph/2008.10523]
J. Li, **D. F. Torres**, R. Liu, M. Kerr, E. de Oña Wilhelmi, & Y. Su
Nature Astronomy 4, 1177-1184 (2020)

264. Exploring the superwind mechanism for generating ultrahigh-energy cosmic rays using large-scale modeling of starbursts [astro-ph/2004.09378]
L. Anchordoqui, & **D. F. Torres**
Phys. Rev. D102, Issue 2, article id.023034 (2020)

263. Advances in Understanding High-Mass X-ray Binaries with INTEGRAL and Future Directions [astro-ph/2009.03244]
P. Kretschmar, F. Furst, L. Sidoli, E. Bozzo, J. Alfonso-Garzon, A. Bodaghee, S. Chaty, M. Chernyakova, C. Ferrigno, A. Manousakis, I. Negueruela, K. Postnov, A. Paizis, P. Reig, J. Rodes-Rocar, S. Tsygankov, A. J. Bird, M. Bissinger, P. Blay, I. Caballero, M. Coe, A. Domingo, V. Doroshenko, L. Ducci, M. Falanga, S. Grebenev, V. Grinberg, P. Hemphill, I. Kreykenbohm, S. Kreykenbohm, J. Li, Alexander A. Lutovinov, S. Martinez-Nunez, J. M. Mas-Hesse, N. Masetti, V. A. McBride, A. Neronov, K. Pottschmidt, J. Rodriguez, P. Romano, R. E. Rothschild, A. Santangelo, V. Sguera, R. Staubert, J. A. Tomsick, J. M. Torrejon, **D. F. Torres**, R. Walter, J. Wilms, C. Wilson-Hodge, S. Zhang
(Note: The journal published this paper in 09/2020, but gave it a reference having as year 2019.)
New Astronomy Reviews 86, article id. 101546 (2020)

262. The INTEGRAL view of the pulsating hard X-ray sky: from accreting and transitional millisecond pulsars to rotation-powered pulsars and magnetars [astro-ph/2012.01346]
A. Papitto, M. Falanga, W. Hermsen, S. Mereghetti, L. Kuiper, J. Poutanen, E. Bozzo, F. Ambrosino, F. Coti Zelati, V. De Falco, D. de Martinom, T. Di Salvon, P. Esposito, C. Ferrigno, M. Foro, D. Gotz, C. Gouiffes, R. Iaria, P. Laurent, J. Li, Z. Li, T. Mineo, P. Moran, A. Neronov, A. Paizis, N. Rea, A. Riggio, A. Sanna, V. Savchenko, A. Slowikowska, A. Shearer, A. Tiengo, & **D. F. Torres**
New Astronomy Reviews 91, 101544 (2020)

261. The X-ray outburst of the Galactic Center magnetar over six years of Chandra observations [astro-ph/2003.07235]
N. Rea, F. Coti Zelati, D. Viganò, A. Papitto, F. Baganoff, A. Borghese, S. Campana, P. Esposito, D. Haggard, G. L. Israel, S. Mereghetti, R. Mignani, R. Perna, J. A. Pons, G. Ponti, L. Stella, **D. F. Torres**, R. Turolla, and S. Zane
ApJ 894, article id.159 (2020)

260. Introducing the HD+B model for pulsar wind nebulae: a hybrid hydrodynamics/radiative approach [astro-ph/2004.08171]
B. Olmi, & **D. F. Torres**
MNRAS 494, 4357-4370 (2020)

259. Hints of gamma-ray orbital variability from γ^2 Velorum [astro-ph/2001.02708]
G. Martí Devesa, O. Reimer, J. Li, & **D. F. Torres**
A&A, 635, id.A141, 7 pp. (2020)

258. NuSTAR and Parkes observations of the transitional millisecond pulsar binary XSS J12270-4859 in the rotation-powered state [astro-ph/2001.05898]
D. de Martino, A. Papitto, M. Burgay, A. Possenti, F. Coti Zelati, N. Rea, **D. F. Torres**, & T. Belloni
MNRAS, 492, 5607–5619 (2020)

257. Spectral characterization of the non-thermal X-ray emission of gamma-ray pulsars [astro-ph/1912.03953]
F. Coti-Zelati, **D. F. Torres**, J. Li, & D. Viganò
MNRAS 492, 1025-1043 (2020)

256. Prospects for the characterization of the VHE emission from the Crab Nebula and Pulsar with the Cherenkov Telescope Array [astro-ph/1912.01921]
E. Mestre, E. de Oña Wilhelmi, R. Zanin, **D. F. Torres**, & L. Tibaldo
MNRAS 492, 708-718 (2020)

2019

255. A novel approach for the analysis of the geometry involved in determining light curves of pulsars [astro-ph/1909.09583]
D. Viganò, & **D. F. Torres**
MNRAS 490, 1437-1450 (2019)

254. Synchro-curvature modelling of the multi-frequency non-thermal emission of pulsars [astro-ph/1908.11574]
D. F. Torres, D. Viganò, *F. Coti-Zelati*, & J. Li
MNRAS 489, 5494-5512 (2019)

253. Probing X-ray emission in different modes of PSR J1023+0038 with a radio pulsar scenario [astro-ph/1908.10238]
S. Campana, A. Miraval Zanon, F. Coti Zelati, **D. F. Torres**, M. C. Baglio, A. Papitto
A&A Letters 629, article id. L8, 5 pp. (2019)

252. Pulsating in unison at optical and X-ray energies: simultaneous high-time resolution observations of the transitional millisecond pulsar PSR J1023+0038 [astro-ph/1904.10433]
A. Papitto, F. Ambrosino, L. Stella, **D. F. Torres**, F. Coti Zelati, A. Sanna, P. Casella, Y. Dallilar, S. Eikenberry, A. Ghedina, G. Israel, F. Meddi, F. Onori, S. Piranomonte, E. Bozzo, L. Burderi, S. Campana, D. de Martino, T. Di Salvo, C. Ferrigno, & N. Rea
ApJ 882, 104, (2019)

251. Towards observing reverberating and superefficient pulsar wind nebulae [astro-ph/1903.68681]
D. F. Torres, *T. Lin*, & *F. Coti Zelati*
MNRAS 486, 1019-1033 (2019)

250. Prolonged sub-luminous state of the new transitional pulsar candidate CXOU J110926.4-650224 [astro-ph/1903.04526]
F. Coti Zelati, A. Papitto, D. de Martino, D. Buckley, A. Odendaal, J. Li, T. Russel, **D. F. Torres**, S. Mazzola, E. Bozzo, M. Gromadzki, S. Campana, N. Rea, C. Ferrigno, & S. Migliari
A&A 622, A211, 21 pages (2019)

with the eXTP collaboration

249. Observatory science with eXTP [astro-ph/1812.04023]
D. F. Torres' contribution: contributed to the discussion on isolated and binary pulsars, both with groups in Spain (the institute I am part of is PI of eXTP's Wide Field Monitor), and at IHEP,

China (the PI institute of the mission).
Science China Physics, Mechanics & Astronomy 62, Issue 2, article id. 29506, 42 pp. (2019)

with the MAGIC collaboration

248. Discovery of TeV gamma-ray emission from the neighbourhood of the supernova remnant G24.7+0.6 by MAGIC [astro-ph/1812.04854]
D. F. Torres' contribution: co-PI in the original observational proposal. Paper co-authored by invitation as an external expert, not as a member of the collaboration.
MNRAS 483, 4578-4585, (2019)

2018

247. Ultrahigh-energy cosmic ray composition from the distribution of arrival directions [astro-ph/1810.04251]
R. C. dos Anjos, J. F. Soriano, L. A. Anchordoqui, T. C. Paul, **D. F. Torres**, J F. Krizmanic, T. A. D. Paglione, R. J. Moncada, F. Sarazin, L. Wiencke & A. V. Olinto
Physical Review D98, 123018 (2018)

246. Theoretically motivated search and detection of non-thermal pulsations from PSRs J1747-2958, J2021+3651, and J1826-1256 [astro-ph/1811.08339]
J. Li, **D. F. Torres**, F. Coti Zelati, A. Papitto, M. Kerr, & N. Rea
ApJ Letters 868, 29 (2018)

245. Discovery and Characterization of Superefficiency in Pulsar Wind Nebulae [astro-ph/arXiv:1808.10613]
D. F. Torres & *T. Lin*
ApJ Letters 864, article id. L2 (2018)

244. The photo-disintegration of ^{4}He on the cosmic microwave background is less severe than earlier thought [astro-ph/1805.00409]
J. Soriano, L. Anchordoqui, & **D. F. Torres**
Physical Review D98, id.043001 (2018)

243. Observations of one young and three middle-aged gamma-ray pulsars with the Gran Telescopio Canarias [astro-ph/1803.07006]
R. Mignani, V. Testa, N. Rea, M. Marelli, D. Salvetti, **D. F. Torres**, & E. de Ona Wilhelmi
MNRAS 478, 332-341 (2018)

242. Observing and modeling the gamma-ray emission from the pulsar/pulsar wind nebula complex PSR J0205+6449/3C 58 [astro-ph/1803.10863]
J. Li, **D. F. Torres**, *T. Lin*, M.-H. Grondin, M. Kerr, M. Lemoine-Goumard, & E. de Ona Wilhelmi
ApJ 858, article id. 84, 7 pp. (2018)

241. Order parameters for the high-energy spectra of pulsars [astro-ph/1802.04177]
D. F. Torres
Nature Astronomy 2, 247-256 (2018)

240. The first continuous optical monitoring of the transitional millisecond pulsar PSR J1023+0038 with Kepler [astro-ph/1801.04736]
A. Papitto, N. Rea, F. Coti-Zelati, D. de Martino, S. Scaringi, S. Campana, E. de Oña Wilhelmi, C. Knigge, A. Serenelli, L. Stella, **D. F. Torres**, P. D'Avanzo, G.L. Israel
ApJ Letters 858, article id. L12, 6 pp. (2018)

239. Simultaneous broadband observations and high-resolution X-ray spectroscopy of the transitional millisecond pulsar PSR J1023+0038 [astro-ph/1801.07794]
F. Coti-Zelati, S. Campana, V. Braito, M. C. Baglio, P. D'Avanzo, N. Rea, **D. F. Torres**
A&A 611, A14, 12 pp. (2018)

with the eASTROGAM collaboration

238. Science with e-ASTROGAM [astro-ph/1711.01265]
D. F. Torres' contribution: possible detections of new pulsars, pulsars and neutron stars chapter

Journal of High Energy Astrophysics, 19, 1-106 (2018)

with the MAGIC collaboration

237. Constraints on particle acceleration in SS433/W50 from MAGIC and H.E.S.S. observations [astro-ph/1707.03658]
D. F. Torres' contribution: PI or co-PI of the several observations reported.
A&A 612, A14 (2018)

2017

236. GeV detection of HESS J0632+057 [astro-ph/1707.04280]
J. Li, **D. F. Torres**, K. S. Cheng, E. de Ona Wilhelmi, P. Kretschmar, X. Hou, & J. Takata
ApJ 846, article id. 169, 7 pp. (2017)

235. Chandra monitoring of the Galactic Centre magnetar SGR J1745-2900 during the initial 3.5 years of outburst decay [astro-ph/1707.01514]
F. Coti-Zelati, N. Rea, R. Turolla, J. Pons, A. Papitto, P. Esposito, G. Israel, S. Campana, S. Zane, A. Tiengo, R. Mignani, S. Mereghetti, F. Baganoff, D. Haggard, G. Ponti, & **D. F. Torres**, A. Borghese, J. Elfritz
MNRAS 471, 1819-1829 (2017)

234. An XMM-Newton and INTEGRAL view on the hard state of EXO 1745-248 during its 2015 outburst [astro-ph/1703.07389]
M. Matranga, A. Papitto, T. Di Salvo, E. Bozzo, **D. F. Torres**, R. Iaria, L. Burderi, N. Rea, D. de Martino, C. Sanchez-Fernandez, A. F. Gambino, C. Ferrigno, & L. Stella
A&A 603, id. A39, 13 pp. (2017)

233. Dust radiative transfer modelling of the infrared ring around the magnetar SGR 1900+14 [astro-ph/1701.07442]
G. Natale, N. Rea, D. Lazzati, R. Perna, **D. F. Torres**, & J. M. Girart
ApJ 837, article id. 9, 10 pp. (2017)

232. Multiband study of a new asynchronous magnetic CV and a flaring X-ray source [astro-ph/1611.04194]
N. Rea, F. Coti-Zelati, F. Esposito, P. D'Avanzo, D. de Martino, F. Israel, **D. F. Torres**, S. Campana, T. M. Belloni, A. Papitto, N. Masetti, L. Carrasco, A. Possenti, M. Wieringa, E. De Ona Wilhelmi, J. Li, E. Bozzo, C. Ferrigno, M. Linares, T. M. Tauris, M. Hernanz, I. Ribas, M. Monelli, A. Borghese, M. C. Baglio, J. Casares
MNRAS 471, 2902-2916 (2017)

231. The puzzling case of the accreting millisecond X-ray pulsar IGR J00291+5934: flaring optical emission during quiescence [astro-ph/1701.02321]
C. Baglio, S. Campana, P. D'Avanzo, A. Papitto, L. Burderi, T. Di Salvo, T. Muñoz Darias, N. Rea, & **D. F. Torres**
A&A 600, id.A109, 6 pp. (2017)

230. A rotationally-powered magnetar nebula around Swift J1834.9-0846 [astro-ph/1612.02835]
D. F. Torres
ApJ 835, article id. 54, 13 pp. (2017)

229. A search for transitions between states in redbacks and black widows using seven years of Fermi-LAT observations [astro-ph/1612.07083]
D. F. Torres, *J. Li, L. Ji,* A. Papitto, N. Rea, E. de Oña-Wilhelmi, & Z. Shu
ApJ 836, article id. 68, 10 pp. (2017)

228. Gamma-ray upper limits on magnetars with 6 years of Fermi-LAT observations [astro-ph/1607.03778]
J. Li, N. Rea, **D. F. Torres**, & E. de Oña-Wilhelmi
ApJ 835, article id. 30, 10 pp. (2017)

with the MAGIC collaboration

227. Observations of Sagittarius A* during the pericenter passage of the G2 object with MAGIC [astro-ph/1611.07095]
D. F. Torres' contribution: theoretical discussion, paper writing, and internal referee
A&A 601, id.A33, 11 pp. (2017)

226. A cut-off in the TeV gamma-ray spectrum of the SNR Cassiopeia A [astro-ph/1707.01583]
D. F. Torres' contribution: co-PI of the observational proposals, theoretical discussion
MNRAS 472, 2956-2962 (2017) [Erratum: MNRAS 476, 2874-2875 (2017)]

2016

225. Observations of three young γ-ray pulsars with the Gran Telescopio Canarias [astro-ph/1606.04711]
R. Mignani, N. Rea, V. Testa, M. Marelli, A. de Luca, M. Pierbattista, A. Shearer, **D. F. Torres**, & E. de Oña-Wilhelmi
MNRAS 461, 4317-4328 (2016)

224. The 2015 outburst of the accreting millisecond pulsar IGR J17511-3057 as seen by INTEGRAL, Swift and XMM-Newton [astro-ph/1609.00187]
A. Papitto, E. Bozzo, C. Sanchez, P. Romano, **D. F. Torres**, C. Ferrigno, J. Kajava, E. Kuulkers
A&A 596, A71 (2016)

223. Search for gamma-ray emission from AE Aquarii with seven years of Fermi-LAT [astro-ph/1608.06662]
J. Li, **D. F. Torres**, N. Rea, & E. de Oña-Wilhelmi, A. Papitto, X. Hou, C. Mauche
ApJ 832, 35 (2016)

222. Multiwavelength study of RX J2015.6+3711: a magnetic cataclysmic variable with a 2-h spin period [astro-ph/1510.04431]
F. Coti-Zelati, N. Rea, S. Campana, D. de Martino, A. Papitto, S. Safi-Harb, & **D. F. Torres**
MNRAS 456, 1913-1923 (2016)

221. A physical scenario for the high and low X-ray luminosity states in the transitional pulsar PSR J1023+0038 [astro-ph/1607.06245]
S. Campana, F. Coti-Zelati, A. Papitto, N. Rea, **D. F. Torres**, M. Baglio, & P. D'Avanzo
A&A 594, A31 (2016)

220. Molecular environment, reverberation, and radiation from the pulsar wind nebula in CTA 1 [astro-ph/1603.09328]
J. Martín, **D. F. Torres**, G. Pedaletti
MNRAS 459, 3868-3879 (2016)

219. SAX J1808.4-3658, an accreting millisecond pulsar shining in gamma rays? [astro-ph/1511.05032]
E. de Ona Wilhelmi, A. Papitto, J. Li, N Rea, **D. F. Torres**, L. Burderi, T. Di Salvo, R. Iaria, A. Riggio, & A. Sanna
MNRAS 456, 2647-2653 (2016)

218. Gamma-ray Emission from PSR J0007+7303 Using Seven Years of Fermi Large Area Telescope Observations [astro-ph/1607.08868]
J. Li, & **D. F. Torres**, E. de Oña, N. Rea, J. Martín
ApJ 831, Issue 1, article id. 19, 10 pp. (2016)

with the Fermi-LAT collaboration

217. The 1^{st} Fermi catalog of SNRs
D. F. Torres' contribution: discussion, comparison with earlier results.
ApJ Supplement Series 224, 8 (2016)

with the MAGIC collaboration

216. Search for VHE gamma-ray emission from Geminga pulsar and nebula [astro-ph/1603.00730]
D. F. Torres' contribution: theoretical discussion, paper writing, iterations on Fermi-LAT analysis, and internal referee
A&A 591, id.A138, 7 pp. (2016)

215. Teraelectronvolt pulsed emission from the Crab pulsar detected by MAGIC [astro-ph/1510.07048]
D. F. Torres' contribution: theoretical discussion, paper writing
A&A 585, 133, 6 pages (2016)

214. Super-orbital variability of LS I +61 303 at TeV energies [astro-ph/1603.06973]
D. F. Torres' contribution: corresponding author
A&A 591, id.A76, 7 pp. (2016)

2015

213. Multi-wavelength observations of the transitional millisecond pulsar binary XSS J12270–4859 [astro-ph/1509.02765]
D. de Martino, A. Papitto, T. Belloni, M. Burgay, E. De Ona Wilhelmi, J. Li, A. Pellizzoni, A. Possenti N. Rea, & **D. F. Torres**
MNRAS 454, 2190-2198, (2015)

212. Constraining the GRB-Magnetar model by means of the Galactic pulsar population [astro-ph/1510.01430]
N. Rea, M. Gullón, J. Pons, R. Perna, M. Dainotti, J. Miralles, & **D. F. Torres**
ApJ Letters 813, article id 92, 8 pages (2015)

211. Multi-wavelength observations of the binary system PSR B1259-63/LS 2883 around the 2014 periastron passage [astro-ph/1508.01339]
M. Chernyakova, A. Neronov, B. van Soelen, P. Callanan, L. O'Shaughnessy, I Babyk, S. Tsygankov, I. Vovk, R Krivonos, J Tomsick, D. Malyshev, J. Li, K. Wood, **D. F. Torres**, S. Zhang, P. Kretschmar, M. McSwain, D. Buckley, & C. Koen
MNRAS 454, 1358-1370 (2015)

210. Gamma-Ray flare activity from PSR B1259-63 during 2014 periastron passage and comparison to Its 2010 passage [astro-ph/1509.02856]
A. Caliandro, C. Cheung, *J. Li*, J. Scargle, **D. F. Torres**, K. Wood, & M. Chernyakova
ApJ 811, article id. 68, 7 pp. (2015)

209. A systematic synchro-curvature modelling of gamma-ray pulsars reveals hidden trends [astro-ph/1507.04021]
D. Viganò, **D. F. Torres**, & J. Martín
MNRAS 453, 2599-2621 (2015)

208. Diagnosing the burst influence upon accretion in the clocked burster GS 1826–238 [astro-ph/1505.08094]
L. Ji, S. Zhang, Y. Chen, S-N. Zhang, **D. F. Torres**, P. Kretschmar, E. Kuulkers, J. Li, & Z. Chang
ApJ 806, article id. 89, 8 pp. (2015)

207. A propeller model for the sub-luminous state of the transitional millisecond pulsar PSR J1023+0038 [astro-ph/1504.05029]
A. Papitto, & **D. F. Torres**
ApJ 807, article id. 33, 10 pp. (2015)

206. Modelling the pulsed gamma-ray spectra of Geminga, Crab, and Vela with synchro-curvature radiation [astro-ph/1503.04060]
D. Viganò, & **D. F. Torres**
MNRAS 449, 3755-3765 (2015)

205. X-ray coherent pulsations during a sub-luminous accretion disk state of the transitional ms pulsar XSS J12270–4859 [astro-ph/1412.4252]
A. Papitto, D. de Martino, T. M. Belloni, M. Burgay, A. Pellizzoni, A. Possenti, **D. F. Torres**
MNRAS Letters 449, L26-L30 (2015)

204. The X-ray outburst of the Galactic Centre magnetar SGR J1745-2900 during the first 1.5 year [astro-ph/1503.01307]
F. Coti-Zelati, N. Rea, A. Papitto, D. Viganó, J. Pons, R. Turolla, P. Esposito, D. Haggard, F. Baganoff, G. Ponti, I. Israel, S. Campana, **D. F. Torres**, A. Tiengo, S. Mereghetti, R. Perna, S. Zane, R. Mignani, A. Possenti, & L. Stella
MNRAS 449, 2685-2699 (2015)

203. Estimating Galactic gas content using different tracers: Compatibility of results, dark gas, and unidentified TeV sources [astro-ph/1412.2943]
G. Pedaletti, E. de Oña Wilhelmi, **D. F. Torres**, G. Natale
Journal of High Energy Astrophysics 5-6, 15-21 (2015)

202. An assessment of the pulsar outer gap model. II: Implications for the predicted gamma-ray spectra [astro-ph/1412.1290]
D. Viganò, **D. F. Torres**, K. Hirotani, & M. E. Pessah
MNRAS 447, 2649-2657 (2015)

201. An assessment of the pulsar outer gap model. I: Assumptions, uncertainties, and implications for the gap size and the accelerating field [astro-ph/1412.1289]
D. Viganò, **D. F. Torres**, K. Hirotani, & M. E. Pessah
MNRAS 447, 2631-2648 (2015)

200. Compact formulae, dynamics, and radiation of charged particles under synchro-curvature losses [astro-ph/1411.5836]
D. Viganò, **D. F. Torres**, K. Hirotani, & M. E. Pessah
MNRAS 447, 1164-1172 (2015)

with the MAGIC collaboration

199. Measurement of the Crab Nebula spectrum over three decades in energy with the MAGIC telescopes [astro-ph/1406.6892]
D. F. Torres' contribution: theoretical model and discussion, paper writing.
Journal of High Energy Astrophysics 5-6, 30-38 (2015)

2014

198. $p\gamma$ interactions in Galactic jets as a plausible origin of the positron excess [astro-ph/1404.4188]
N. Gupta, & **D. F. Torres**
MNRAS 441, 3122-3126 (2014)

197. Comparing supernova remnants around strongly magnetized and canonical pulsars [astro-ph/1409.1027]
J. Martín, N. Rea, **D. F. Torres**, A. Papitto
MNRAS 444, 2910-2924 (2014)

196. Is there room for highly magnetized pulsar wind nebulae among those non-detected at TeV? [astro-ph/1406.1344]
J. Martín, **D. F. Torres**, A. Cillis, & E. de Ona Wilhelmi
MNRAS 443, 138-145 (2014)

195. A State-dependent Influence of Type I Bursts on the Accretion in 4U 1608-52? [astro-ph/1407.6235]
J. Long, S. Zhang, Y. Peng, S-N. Zhang, **D. F. Torres**, P. Kretschmar, & J. Li
ApJ Letters 791, article id. L39, 5 pp. (2014)

194. What IceCube data tell us about neutrino emission from star-forming galaxies so far [astro-ph/1405.7648]
L. Anchordoqui, P. Thomas, L. da Silva, **D. F. Torres**, & B. Vlcek
Physical Review D 89, 127304 (2014)

193. In what sense a neutron star-black hole binary is the holy grail for testing gravity? [astro-ph/1405.3838]
M. Bagchi, & **D. F. Torres**
(Honorable Mention in the Gravity Foundation Research Awards, 2014)
Journal of Cosmology and Astroparticle Physics 8, 055 (2014)

192. Spin frequency distributions of binary millisecond pulsars [astro-ph/1403.6775]
A. Papitto, **D. F. Torres**, N. Rea, & T. M. Tauris
A&A 566, article id. A64, 6 pp. (2014)

191. Detailed investigation of the gamma-ray emission in the vicinity of SNR W28 [astro-ph/1403.6878]
Y. Hanabata, H. Katagiri, J.W. Hewitt, J. Ballet, Y. Fukazawa, Y. Fukui, T. Hayakawa, M. Lemoine-Goumard, G. Pedaletti, A. W. Strong, **D. F. Torres**, & R. Yamazaki
ApJ 786, article id. 145, 9 pp. (2014)

190. On the possible correlation of Galactic VHE source locations and enhancements of the surface density in the Galactic plane [astro-ph/1403.3271]
G. Pedaletti, E. de Ona Wilhelmi, & **D. F. Torres**
A&A 565, article id. A118, 6 pp. (2014)

189. Spectral analysis in orbital/superorbital phase space and hints of superorbital variability in the hard X-rays of LS I +61 303 [astro-ph/1402.6159]
J. Li, **D. F. Torres**, & S. Zhang
ApJ Letters 785, article id. 19 (2014)

188. Time-dependent modeling of TeV-detected, young pulsar wind nebulae [astro-ph/1402.5485]
D. F. Torres, A. Cillis, J. Martín, & E. de Ona Wilhelmi
Journal of High Energy Astrophysics 1, 31-62 (2014)

187. The hard X-ray shortages prompted by the clock bursts in GS 1826–238 [astro-ph/1312.4166]
L. Ji, S. Zhang, Y. Chen, S-N. Zhang, **D. F. Torres**, P. Kretschmar, & J. Li
ApJ 782, article id. 40 (2014)

186. A propeller scenario for the candidate gamma-ray low-mass X-ray binary XSS J12270–4859 [astro-ph/1312.0456]
A. Papitto, **D. F. Torres**, *J. Li*
MNRAS 438, 2105-2116 (2014)

185. 3XMM J1852+0033: another low magnetic field magnetar [astro-ph/1311.3091]
N. Rea, D. Vigano, G. L. Israel, J. A. Pons, & **D. F. Torres**
ApJ Letters 781, article id. 17 (2014)

with the MAGIC collaboration

184. Discovery of TeV gamma-ray emission from the pulsar wind nebula 3C58 by MAGIC [astro-ph/1405.6074]
D. F. Torres' contribution: proposal PI, paper writing, theoretical discussion, and model
A&A 567, article id.L8, 5 pp. (2014)

183. MAGIC search for VHE gamma-ray emission from AE Aquarii in a Multi-wavelength context [astro-ph/1407.3707]
D. F. Torres' contribution: paper writing and analysis iterations –my PhD student D. Hadasch is corresponding author
A&A 568, article id. 109, 8 pp. (2014)

2013

182. The hard X-ray behavior of Aql X-1 during type-I bursts [astro-ph/1309.6380]
Y. Chen, Shu Zhang, S-N. Zhang, L. Ji, **D. F. Torres**, P. Kretschmar, J. Li, & J. Wang
ApJ Letters 777, article id. L9, 4 pp. (2013)

181. The effects of magnetic field, age, and luminosity on Crab-like pulsar wind nebulae [astro-ph/1309.5291]
D. F. Torres, J. Martín, E. de Ona Wilhelmi, & A. Cillis
MNRAS 436, 3112-3127 (2013)

180. The missing GeV gamma-ray binary: Searching for HESS J0632+057 with Fermi-LAT [astro-ph/1308.5234]
G. A. Caliandro, A. B. Hill, **D. F. Torres**, D. Hadasch, T. Tam, et al.
MNRAS 436, 740-749 (2013)

179. Kinematic distances studies of the planetary nebulae-SNR-HII region complex at G35.6-0.5 [astro-ph/1307.7878]
H. Zhu, W. Tian, **D. F. Torres**, G. Pedaletti, & H. Q. Su
ApJ 775, article id. 95, 9 pp. (2013)

178. A strongly magnetized pulsar within grasp of the Milky Way's supermassive black hole [astro-ph/1307.6331]
N. Rea, P. Esposito, J. A. Pons, R. Turolla, **D. F. Torres**, G. L. Israel, A. Possenti, M. Burgay, D. Vigano, R. Perna, L. Stella, G. Ponti, F. Baganoff, D. Haggard, A. Papitto, A. Camero-Arranz, S. Zane, T. Minter, S. Mereghetti, A. Tiengo, R. Schodel, M. Feroci, R. Mignani, & D. Gotz
ApJ Letters 775, 34-40 (2013)

177. Swings between rotation and accretion power in a binary millisecond pulsar [astro-ph/1305.3884]
A. Papitto, C. Ferrigno, E. Bozzo, N. Rea, L. Pavan, P. Romano, L. Burderi, M. Burgay, S. Campana, T. di Salvo, M. Falanga, M. D. Filipovic, J. W. T. Hessels, A. Possenti, S. M. Ransom, A. Riggio, P. Romano, J. M. Sarkissian, I. H. Staris, L. Stella, **D. F. Torres**, M. H. Wieringa, & G. F. Wong
Nature 501, 517-520 (2013)

176. A method for evaluating the expectation value of a power spectrum using the probability density function of phases [astro-ph/1306.3272]
A. Caliandro, **D. F. Torres**, & N. Rea
Journal of Cosmology and Astroparticle Physics 7, art. id. 15, (2013)

175. X-ray bursts probe the corona of 4U 1636-536 [astro-ph/1304.5371]
L. Ji, S. Zhang, Y. Chen, N. Zhang, **D. F. Torres**, P. Kretschmar, M. Chernyakova, J. Li, & J. Wang
MNRAS 432, 2773-2778 (2013)

174. On the potential of the Cherenkov Telescope Array for the study of cosmic-ray diffusion in molecular clouds [astro-ph/1301.5240]
G. Pedaletti, **D. F. Torres**, S. Gabici, E. de Ona Wilhelmi, D. Mazin, & V. Stamatescu
A&A 550, id. A123, 13 pages (2013)

173. Deep optical observations of the radio-silent gamma-ray pulsar PSR J0007+7303 in the CTA 1 SNR [astro-ph/1301.0245]
R. P. Mignani, A. de Luca, N. Rea, A. Shearer, S. Collins, **D. F. Torres**, D. Hadasch, & A. Caliandro
MNRAS 430, 1354-1358 (2013)

172. An energy-conserving, particle dominated, time-dependent model of 3C58 and its observability at high-energies [astro-ph/1212.1995]
D. F. Torres, A. Cillis, J. Martín
ApJ Letters 763, 4-8 (2013)

171. The extended X-ray emission around RRAT J1819-1458 [astro-ph/1211.7340]
A. Camero-Arranz, N. Rea, N. Bucciantini, M. A. McLaughlin, P. Slane, B. Gaensler, **D. F. Torres**, L. Stella, E. de Oña, G. L. Israel, F. Camilo & A. Possenti
MNRAS 429, 2493-2499 (2013)

170. Binaries with the eyes of CTA [astro-ph/1210.3215]
J.M. Paredes, W. Bednarek, P. Bordas, V. Bosch-Ramon, E. De Cea del Pozo, G. Dubus, S. Funk, D. Hadasch, D. Khangulyan, S. Markoff, J. Moldon, P. Munar-Adrover, S. Nagataki, T. Naito, M. de Naurois, G. Pedaletti, O. Reimer, M. Ribo, A. Szostek, Y. Terada, **D. F. Torres**, V. Zabalza, A.A. Zdziarski
Astroparticle Physics 43, 301-316 (2013)

169. Prospects for Pulsars and Pulsar Wind Nebulae Observations with CTA [astro-ph/1209.0357]
E. de Ona Wilhelmi, B. Rudak, J. A. Barrio, J. L. Contreras, Y. Gallant, D. Hadasch, T. Hassan, M. Lopez, D. Mazin, N. Mirabal, G. Pedaletti, M. Renaud, R. de los Reyes, **D. F. Torres**
Astroparticle Physics 43, 287-300 (2013)

168. Gamma-ray signatures of cosmic ray acceleration, propagation, and confinement in the era of CTA [astro-ph/1209.0582]
F. Acero, A. Bamba, S. Casanova, E. de Cea, E. de Ona Wilhelmi, S. Gabici, Y. Gallant, D. Hadasch, A. Marcowith, G. Pedaletti, O. Reimer, M. Renaud, **D. F. Torres**, F. Volpe
Astroparticle Physics 43, 276-286 (2013)

with the MAGIC collaboration

167. Observations of the magnetars 4U 0142+61 and 1E 2259+586 with the MAGIC telescopes [astro-ph/1211.1173]
D. F. Torres' contribution: paper writing and analysis iterations –my PhD student D. Hadasch is corresponding author
A&A, 549, id. A23 (2013)

with the Fermi-LAT collaboration

166. Associating long-term gamma-ray variability with the superorbital period of LS I +61 303 [astro-ph/1307.6384]
D. F. Torres' contribution: corresponding author
ApJ Letters 773, L35 (2013)

165. Constraints on the galactic population of TeV pulsar wind nebulae using Fermi Large Area Telescope observations [astro-ph/1306.5735]
D. F. Torres' contribution: discussion of several individual objects
ApJ 773, article id. 77, 27 pp. (2013)

164. The Second Fermi Large Area Telescope Catalog of Gamma-Ray Pulsars
D. F. Torres' contribution: my postdoc A. Caliandro was responsible of a significant part of the spectral analysis, I collaborated with him and participated in the discussion of the results.
ApJ Supplement 208, 17 (2013)

with the CTA collaboration

163. Introducing the CTA concept
D. F. Torres' contribution: responsible of the science section, summarizing the work of the physics group (for which I was coordinator)
Astroparticle Physics 43, 3-18 (2013)

2012

162. INTEGRAL and Swift observations on IGR J18179-1621 [astro-ph/1207.3989]
J. Li, S. Zhang, **D. F. Torres**, A. Papitto, Y. Chen, & J. Wang
MNRAS Letters 426, L16 (2012)

161. INTEGRAL and Swift observations of the Be X-ray binary 4U 1036-56 (RX J1037.5-5647) and its possible relation with γ-ray transients [astro.ph/1210.1224]
J. Li, **D. F. Torres**, S. Zhang, A. Papitto, Y. Chen, & J. Wang
ApJ 761, article id. 49, 9 pp. (2012)

160. Impact of the orbital uncertainties on the timing of pulsars in binary systems [astro-ph/1209.2034]
G. A. Caliandro, **D. F. Torres**, & N. Rea
MNRAS 427, 2251-2274 (2012)

159. Time-dependent modelling of pulsar wind nebulae:
Study on the impact of the diffusion-loss approximations [astro-ph/1209.0300]
J. Martín, **D. F. Torres**, & N. Rea
MNRAS 427, 415-427, (2012)

158. Possible changes of state and relevant timescales for a neutron star in LS I +61 303 [astro-ph/1207.4341]
A. Papitto, **D. F. Torres**, & N. Rea
ApJ 756, article id. 188 (2012)

157. Fermi-LAT Discovery of GeV Gamma-ray Emission from the Vicinity of SNR W44 [astro-ph/1203.3234]
Y. Uchiyama, S. Funk, H. Katagiri, J. Katsuta, M. Lemoine-Goumard, H. Tajima, T. Tanaka, & **D. F. Torres**
ApJ Letters 749, 35-39 (2012)

156. Building up the spectrum of cosmic-rays in star-forming regions [astro-ph/1203.2798]
D. F. Torres, A. Cillis, B. Lacki, & Y. Rephaeli
MNRAS 423, 822-830 (2012)

155. The fundamental plane of radio magnetars [astro-ph/1202.3069]
N. Rea, J. Pons, **D. F. Torres**, & R. Turolla
ApJ Letters 748, 12-15 (2012)

154. Long-term monitoring of the gamma-ray emission from LS I +61 303 and LS 5039 [astro-ph/1202.1866]
D. Hadasch, **D. F. Torres**, T. Tanaka, R. H. D. Corbet, A. B. Hill, R. Dubois, G. Dubus, T. Glanzman, S. Corbel, J. Li, Y. P. Chen, S. Zhang, G. A. Caliandro, M. Kerr, J. L. Richards, W. Max-Moerbeck, A. Readhead, G. Pooley
ApJ 749, article id. 54 (2012)

153. Unveiling the super-orbital modulation of LS I +61 303 in X-rays [astro-ph/1111.7068]
J. Li, **D. F. Torres**, S. Zhang, D. Hadasch, N. Rea, G. A. Caliandro, Y. Chen, & J. Wang
ApJ Letters 744, L13 (2012)

152. A magnetar-like event from LS I +61 303 and its nature as a gamma-ray binary [astro-ph/1109.5008]
D. F. Torres, N. Rea, P. Esposito, J. Li, Y. Chen, S. Zhang
ApJ 744, 106 (2012)

with the Fermi-LAT collaboration

151. GeV observations of star-forming galaxies with Fermi-LAT [astro-ph/1206.1346]
D. F. Torres' contribution: corresponding author
ApJ 755, 166 (2012)

150. Periodic Emission from the Gamma-Ray Binary 1FGL J1018.6-5856
D. F. Torres' contribution: discussion and interpretation of results, member of the core team for gamma-ray binaries research
Science 335, 189-193 (2012)

149. The Fermi Large Area Telescope on Orbit: Event Classification, Instrument Response Functions, and Calibration
D. F. Torres' contribution: My postdoc A. Caliandro was a member of the IRF team since he came in my group in 2009, I collaborated with him and discussed results internally before transferring them to the collaboration.
ApJ Suppl. 203, Issue 1, article id. 4, 70 pp. (2012)

2011

148. The 2008 outburst of IGR J17473-2721: evidence for disk corona? [astro-ph/1109.0788]
Y. Chen, S. Zhang, **D. F. Torres**, S-N. Zhang, J. Li, P. Kretschmar, & J. Wang
A&A 534, article id. A101, 8 pages (2011)

147. INTEGRAL observations of the gamma-ray binary 1FGL J1018.6-5856 [astro-ph/1108.1668]
J. Li, **D. F. Torres**, Y. Chen, D. Götz, N. Rea, S. Zhang, A. Caliandro, & J. Wang
ApJ Letters 738, 31-33 (2011)

146. Cosmic rays in the surroundings of SNR G35.6-0.4 [astro-ph/1107.3470]
D. F. Torres, H. Li, Y. Chen, A. Cillis, A. G. Caliandro, & A. Rodriguez-Marrero
MNRAS 417, 3072-3079 (2011)

145. The TeV binary HESS J0632+057 in the low and the high X-ray state [astro-ph/1105.0601]
N. Rea, & **D. F. Torres**
ApJ Letters 737, 12-16 (2011)

144. Deep Chandra observations of TeV binaries II: LS 5039 [astro-ph/1105.5585]
N. Rea, **D. F. Torres**, G. A. Caliandro, D. Hadasch, M. van der Klis, P. G. Jonker, M. Mendez, & A. Sierpowska-Bartosik
MNRAS 416, 1514-1521 (2011)

143. Long-term X-ray monitoring of LS I +61 303: analysis of spectral variability and flares [astro-ph/1103.4205]
J. Li, **D. F. Torres**, S. Zhang, Y. Chen, D. Hadasch, P. Ray, P. Kretschmar, N. Rea, & J. Wang
ApJ 733, article id. 89, 12 pages (2011)

142. Hadronic beam models for quasars and microquasars [astro-ph/1102.0851]
D. F. Torres, & A. Reimer
A&A Letters 528, L2 (2011)

with the CTA collaboration

141. Design Concepts for the Cherenkov Telescope Array [astro-ph/1008.3703]
D. F. Torres' contribution: responsible of the science section, summarizing the work of the physics group (for which I was coordinator)
Experimental Astronomy 32, 193-316 (2011)

with the Fermi-LAT collaboration

140. Discovery of High-energy Gamma-ray Emission from the Binary System PSR B1259-63/LS 2883 around Periastron with Fermi
D. F. Torres' contribution: discussion and interpretation of results, member of the core team for gamma-ray binaries research
ApJ Letters 736, article id. L11 (2011)

2010

139. The 2009 outburst of H1743-322 as observed by RXTE [astro-ph/1008.3059]
Y. Chen, S. Zhang, **D. F. Torres**, J. Wang, J. Li, T. Li, & J. Qu
A&A 522, A99 (2010) [9 pages].

138. Variability in the orbital profiles of the X-ray emission of LS I +61 303 [astro-ph/1007.2272]
D. F. Torres, S. Zhang, J. Li, N. Rea, A. Caliandro, D. Hadasch, Y. Chen, J. Wang, & P. Ray
ApJ Letters 719, 104-108 (2010)

137. On the GeV–TeV connection at the SNR IC 443 [astro-ph/1006.2963]
D. F. Torres, A. Rodriguez Marrero, & E. de Cea del Pozo
MNRAS 408, 1257-1266 (2010)

136. Long-term monitoring of LS I +61 303 with INTEGRAL [astro-ph/1006.1427]
S. Zhang, **D. F. Torres**, Jian Li, YuPeng Chen, N. Rea, & Jianmin Wang
MNRAS 408, 642-646 (2010)

135. Deep Chandra observations of TeV binaries I: LS I 61 303 [astro-ph/1002.2223]
N. Rea, **D. F. Torres**, M. van der Klis, P. G. Jonker, M. Mendez, & A. Sierpowska-Bartosik
MNRAS 405, 2206-2214, (2010)

134. INTEGRAL and Swift/XRT observations of PKS 0208-512 [astro-ph/1002.4030]
S. Zhang, W. Collmar, **D. F. Torres**, J. Wang, M. Lang, & S. Zhang
A&A 514, 69 (2010) [6 pages]

133. Type I bursts within outbursts of IGR J17473-2721 [astro-ph/1002.1044]
Y. Chen, S. Zhang, **D. F. Torres**, J. Wang, & T. Li
A&A 510, 81 (2010) [8 pages]

with the Fermi-LAT collaboration

132. Search for gamma-ray Emission from Magnetars with the Fermi Large Area Telescope
D. F. Torres' contribution: paper writing and analysis iterations (my PhD student D. Hadasch is corresponding author)
ApJ Letters 725, 73-78 (2010)

131. Fermi-LAT Observations of the Supernova Remnant W28 (G6.4-0.1)
D. F. Torres' contribution: discussion of the theoretical models, member of the core team for cosmic rays / supernova remnants research
ApJ 718, 348-356 (2010)

130. Gamma-ray emission concurrent with the nova in the symbiotic binary V407
D. F. Torres' contribution: multi-wavelength support (Chandra request), analysis iterations (particularly on the search for steady emission), and paper writing
Science 329, 817-821 (2010)

129. The Fermi-LAT First Source Catalog [astro-ph/1002.2280]
D. F. Torres' contribution: analysis to establish detected populations of gamma-ray sources, paper writing, member of the core team for unidentified sources (new source classes) research
ApJ Supplement 188, 405-436 (2010)

128. Detection of gamma-ray Emission from the Starburst Galaxies M82 and NGC 253 with the Large Area Telescope on Fermi [astro-ph/0911.5327]
D. F. Torres' contribution: corresponding author
ApJ Letters 709, 152-157 (2010)

127. Observation of SNR IC 443 with Fermi-LAT [astro-ph/1002.2198]
D. F. Torres' contribution: corresponding author
ApJ 712, 459-468 (2010)

126. Observations of the Large Magellanic Cloud with Fermi
D. F. Torres' contribution: theoretical analysis of 30 Dor as a diffuse emitter
A&A 512, A7 (15pp) (2010)

125. Gamma-ray emission from the shell of SNR W44 Revealed by Fermi-LAT
D. F. Torres' contribution: contribution to discussion and interpretation of results, member of the core team for cosmic rays / supernova remnants research
Science 327-1103-1105 (2010)

with the MAGIC collaboration

124. MAGIC Upper Limits for two Milagro-detected, Bright Fermi Sources in the Region of SNR G65.1+0.6
D. F. Torres' contribution: paper writing and analysis iterations –my PhD student E. de Cea is corresponding author
ApJ Letters 725, 1629-1632 (2010)

2009

123. Gamma-rays from LS I +61 303: The Impact of Basic System Uncertainties [astro-ph/0811.2466]
A. Sierpowska-Bartosik, & **D. F. Torres**
ApJ 693, 1462-1473 (2009)

122. Outbursts from IGR J17473-2721 [astro-ph/0907.3544]
S. Zhang, Y. Chen, J.Wang, **D. F. Torres**, & T. Li
A&A 502, 231-237 (2009)

121. Multi-messenger model for the starburst galaxy M82 [astro-ph/0901.2688]
E. de Cea del Pozo, **D. F. Torres**, & A. Rodriguez Marrero
ApJ 698, 1054-1060 (2009)

120. INTEGRAL and Swift/XRT observations of IGR J19405-3016 [astro-ph/0909.0075]
S. Zhang, Y. Chen, **D. F. Torres**, J. Wang, T. Li, & J. Ge
A&A 505, 553-557 (2009)

119. Present and future gamma-ray probes of Cygnus OB2 / TeV J2032+4130 [astro-ph/0907.0395]
L. A. Anchordoqui, H. Goldberg, R. Moore, S. Palomares, **D. F. Torres**. & T. Weiler
Physical Review D80, 103004 (2009)

with the Fermi-LAT collaboration

118. Modulated high-energy gamma-ray emission from the microquasar Cygnus X-3
D. F. Torres' contribution: analysis of Cyg OB-2 and possible contribution of nearby WR stars, member of the core team for gamma-ray binaries research
Science 326, 1512-1516 (2009)

117. Fermi-LAT observations of LS 5039 [astro-ph/0910.5520]
D. F. Torres' contribution: discussion and interpretation of results, paper writing, member of the core team for gamma-ray binaries research
ApJ Letters 706, 56-61 (2009)

116. Fermi-LAT Discovery of Extended gamma-ray Emission in the Direction of SNR W51C [astro-ph/0910.0908]
D. F. Torres' contribution: discussion and interpretation of results, member of the core team for cosmic rays / supernova remnants research
ApJ Letters 706, 1-6 (2009)

115. Discovery of high-energy gamma-ray emission from the globular cluster 47 Tucanae with Fermi
D. F. Torres' contribution: discussion and interpretation of results, member of the core team for unidentified sources (new source classes) research
Science 325, 845-848 (2009)

114. Fermi-LAT observations of LS I +61 303: First detection of an orbital modulation in GeV gamma-rays [astro-ph/0907.4307]
D. F. Torres' contribution: corresponding author
ApJ Letters 701, 123-127 (2009)

113. Fermi bright gamma-ray source list
D. F. Torres' contribution: association testing for new populations of gamma-ray sources, member of the core team for unidentified sources (new source classes) research
Astrophysical Journal Supplement Series 183, 46-66 (2009)

112. The Large Area Telescope on Fermi [astro-ph/0902.1089]
D. F. Torres' contribution: co-responsible with O. Reimer of the section on Galactic astrophysics and unidentified sources, paper writing
ApJ 697, 1071-1102 (2009)

with the MAGIC collaboration

111. Periodic VHE gamma-ray emisson from LS I +61 303 observed with the MAGIC telescope [astro-ph/0806.1865]
D. F. Torres' contribution: analysis iterations, proposal and paper writing
ApJ 693, 303-309 (2009)

110. Correlated X-ray and TeV-emission in the gamma-ray binary LS I +61 303 [astro-ph/0910.4381]
D. F. Torres' contribution: analysis iterations, proposal and paper writing
ApJ Letters 706, 27-32 (2009)

2008

109. GLAST testing of a pulsar model matching HESS observations of LS 5039 [astro-ph/0801.1487]
A. Sierpowska-Bartosik, & **D. F. Torres**
ApJ Letters 674, 89-92 (2008)

108. On the GeV–TeV connection of gamma-ray sources [astro-ph/0710.1584]
S. Funk, O. Reimer, **D. F. Torres**, & J. A. Hinton
ApJ 679, 1299-1314 (2008)

107. Variable radio sources in the field of EGRET variables [astro-ph/0803.0721]
J. M. Paredes, J. Marti, C. Ishwara-Chandra, **D. F. Torres**, G. E. Romero, J. Combi, V. Bosch-Ramon, A. Munoz-Arjonilla, & J. Sanchez-Sutil
A&A 482, 247-253 (2008)

106. The high-energy properties of PKS 1830-211 [astro-ph/0803.1900]
S. Zhang, Y. Chen, W. Collmar, L. Foschini, T. Li, **D. F. Torres**, & J. Wang
ApJ 683, 400-408 (2008)

105. Pulsar wind zone processes in LS 5039 [astro-ph/0801.3427]
A. Sierpowska-Bartosik, & **D. F. Torres**
Astroparticle Physics 30, 239-263 (2008)

104. MAGIC J0616+225 as delayed TeV emission of cosmic-rays diffusing from SNR IC 443 [astro-ph/0804.2526]
D. F. Torres, A. Rodriguez-Marrero, & E. de Cea del Pozo
MNRAS Letters 387, 59-63 (2008)

103. Diffusion of Cosmic-Rays and the GLAST: Phenomenology at the 1-100 GeV Regime [astro-ph/0808.1834]
A. Rodriguez-Marrero, **D. F. Torres**, E. de Cea del Pozo, O. Reimer, & Analia Cillis
ApJ 689, 213-218 (2008)

with the Fermi-LAT collaboration

102. The Fermi telescope discovers the pulsar in the young Galactic Supernova CTA 1 [astro-ph/0810.3562]
D. F. Torres' contribution: first paper of the mission, based on the first months of data, with a wide participation of the whole collaboration (especially the Galactic team I was member of) in preparing it.
Science 322, 1218-1221 (2008)

with the MAGIC collaboration

101. VHE observations of the Crab nebula and pulsar with MAGIC [astro-ph/0705.3244]
D. F. Torres' contribution: theoretical discussions on the nebular emission
ApJ 674, 1037-1055 (2008)

100. MAGIC observations of the unidentified gamma-ray source TeV J2032+4130 [astro-ph/0801.2391]
D. F. Torres' contribution: corresponding author
ApJ Letters 675, 25-28 (2008)

99. Multi-wavelength observations of the gamma-ray binary LS I +61 303 [astro-ph/0801.3150]
D. F. Torres' contribution: proposals in MAGIC and other facilities, theoretical discussion, paper writing
ApJ 684, 1351-1358 (2008)

98. First bounds on the VHE emission from isolated Wolf-Rayet binary systems [astro-ph/0808.1832]
D. F. Torres' contribution: corresponding author
ApJ Letters, 685, 71-74 (2008)

97. Detection of pulsed gamma-rays above 25 GeV from the Crab pulsar [astro-ph/0809.2998]
D. F. Torres' contribution: discussion and iterations about interpretation of results
Science 322, 1221-1223 (2008)

2007

96. LSI +61 303 as a potential neutrino source on the light of MAGIC results [astro-ph/0607368]
D. F. Torres, & F. Halzen
Astroparticle Physics 27, 500-508 (2007)

95. Averaging Einstein's equations [gr-qc/9904020 v.2: Dec. 2006]
W. Stoeger, A. Helmi, & **D. F. Torres**
International Journal of Modern Physics D16, 1001-1026 (2007)

94. Chandra observations of LS I +61 303: Extended X-ray structure? [astro-ph/0706.0877]
J. M. Paredes, M. Ribo, V. Bosch-Ramon, J. West, Y. Butt, **D. F. Torres**, & J. Marti
ApJ Letters 664, 39-42 (2007)

93. Energetic processing of interstellar silicate grains by cosmic rays
E. Bringa, S. Kucheyev, M. Loeffler, R. A. Baragiola, A. Tielens, Z. Dai, G. Graham, S. Bait, J. Bradley, C. A. Dukes, T. Felter, **D. F. Torres**, & W. van Breugel
ApJ 662, 372-379 (2007)

92. A pulsar model for the high-energy phenomenology of LS 5039 [astro-ph/0708.0189]
A. Sierpowska-Bartosik, & **D. F. Torres**
ApJ Letters 671, 145-148 (2007)

with the MAGIC collaboration

91. First bounds on the very high-energy gamma-ray emission from Arp 220 [astro-ph/0611786]
D. F. Torres' contribution: corresponding author
ApJ 658, 245-248 (2007)

90. Discovery of VHE from IC 443 with the MAGIC telescope [astro-ph/0705.3119]
D. F. Torres' contribution: main author with H. Bartko, E. de Oña, and J. Cortina, proposal and paper writing, analysis iterations
ApJ Letters 664, 87-90 (2007)

89. VHE gamma-ray radiation from the stellar-mass black hole Cyg X-1 [astro-ph/0706.1505]
D. F. Torres' contribution: main author with J. Rico, N. Sidro, E. de Oña, J. Paredes, M. Ribó, and J. Cortina, proposal and paper writing, analysis iterations
ApJ Letters 665, 51-54 (2007)

88. Observation of VHE gamma-rays from Cassiopeia A with the MAGIC telescope [astro-ph/0706.4065]
D. F. Torres' contribution: main author with E. de Oña and J. Cortina, proposal and paper writing, analysis iterations
A&A 474, 937-940 (2007)

2006

87. A microquasar model applied to unidentified EGRET sources [astro-ph/0601238]
V. Bosch-Ramón, J. M. Paredes, G. E. Romero, & **D. F. Torres**
A&A 446, 1081-1088 (2006)

86. Hadronic processes within stellar winds [astro-ph/0510769]
E. Domingo-Santamaría, & **D. F. Torres**
A&A 448, 613-622 (2006)

85. INTEGRAL and XMM observations towards the unidentified MeV source GRO 1411-64 [astro-ph/0606470]
D. F. Torres, S. Zhang, O. Reimer, X. Barcons, A. Corral, V. Bosch-Ramon, J. M. Paredes, G. E. Romero, J. Qu, W. Collmar, V. Schonfelder, & Y. Butt
A&A 457, 257-264 (2006)

with the MAGIC collaboration

84. Observations of the VHE gamma radiation from HESS J1813-178 with the MAGIC telescope [astro-ph/0512283]
D. F. Torres' contribution: main author with H. Bartko and J. Cortina, analysis iterations, theoretical interpretation, paper writing
ApJ Letters 637, 41-44 (2006)

83. Observation of gamma-rays from the Galactic center with the MAGIC telescope [astro-ph/0512469]
D. F. Torres' contribution: main author with H. Bartko and J. Cortina, analysis iterations, paper writing
ApJ Letters 638, 101-104 (2006)

82. Observations of the VHE gamma radiation from HESS J1834-087/W41 with MAGIC [astro-ph/0604197]
D. F. Torres' contribution: main author with H. Bartko and J. Cortina, analysis iterations theoretical interpretation and model, paper writing
ApJ Letters 643, 53-56 (2006)

81. Discovery of variable VHE radiation from LS I +61 303 [astro-ph/0605549]
D. F. Torres' contribution: main author with N. Sidro, M. Ribó, J. Paredes, J. Cortina, J. Rico, E. de Oña; analysis iterations, proposal and paper writing
Science 312, 1771-1773 (2006)

2005

80. High Galactic latitude molecular clouds as gamma-ray sources for GLAST [astro-ph/0501385]
D. F. Torres, T. M. Dame, & S. W. Digel
ApJ Letters 621, 29-32 (2005)

79. EGRET upper limits and stacking searches of gamma-ray observations of luminous infrared galaxies [astro-ph/0411429]
A. Cillis, **D. F. Torres**, & O. Reimer
ApJ 621, 139-145 (2005)

78. Probing the precession of the inner accretion disk in Cygnus X-1 [astro-ph/0503186]
D. F. Torres, G. E. Romero, X. Barcons, & Y. Lu
ApJ 626, 1015-1019 (2005)

77. Systematic and quantitative approach for the identification of high-energy gamma-ray source populations [astro-ph/0507654]
D. F. Torres, & O. Reimer
ApJ Letters 629, 141-145 (2005)

76. Recovery of the orbital parameters and pulse evolution of V0332+53 during a huge outburst [astro-ph/0507568]
S. Zhang, J. Qu, L. Song, & **D. F. Torres**
ApJ Letters 630, 65-68 (2005)

75. High energy gamma-ray emission from the starburst nucleus of NGC 253 [astro-ph/0506240]
E. Domingo-Santamaría, & **D. F. Torres**
A&A 444, 403-415 (2005)

74. Atomic X-ray spectroscopy of accreting black holes [astro-ph/0510093]
D. Liedahl, & **D. F. Torres**
(Solicited Review Article, Einstein Centennial Volume)
Canadian Journal of Physics 83, 1177-1240 (2005)

73. Some comments on the high energy emission from regions of star formation beyond the Galaxy [astro-ph/0509108]
D. F. Torres, & *E. Domingo-Santamaría*
(Solicited Brief Review Article)
Modern Physics Letters A20, 2827-2843 (2005)

2004

72. High energy gamma-rays from stellar associations [astro-ph/0312128]
(Awarded as Top Scientific Contribution of Lawrence Livermore Laboratory, 2004)
D. F. Torres, *E. Domingo-Santamaría* & G. E. Romero
ApJ Letters, 601, 75-78 (2004)

71. Strong field limit analysis of gravitational retrolensing [gr-qc/0311013]
E. Eiroa, & **D. F. Torres**
Physical Review D69, 063004 [9 pages] (2004)

70. Spontaneous violation of the energy conditions [astro-ph/0401521]
A. Whinnett, & **D. F. Torres**
ApJ Letters 603, 133-136 (2004)

69. Astrophysical origins of ultra-high energy cosmic rays [astro-ph/0402371]
D. F. Torres, & L. Anchordoqui
(Solicited Review Article)
Reports on Progress in Physics 67, 1663-1730 (2004)

68. Luminous infrared galaxies as plausible gammma-ray sources for GLAST and IACTs [astro-ph/0405302]
D. F. Torres, O. Reimer, *E. Domingo-Santamaría*, & S. W. Digel
ApJ Letters 607, 99-102 (2004)

67. Theoretical modeling of the diffuse emission of gamma-rays from extreme regions of star formation: The case of Arp 220 [astro-ph/0407240]
D. F. Torres
ApJ 617, 966-986 (2004)

2003

66. Gravitational microlensing of gamma-ray blazars [astro-ph/0205441]
D. F. Torres, G. E. Romero, *E. Eiroa*, J. Wambsganss, & M. E. Pessah
MNRAS 339, 335-352 (2003)

65. The K-alpha line from an accretion disc onto a static non-baryonic compact object [astro-ph/0205418]
Y. Lu, & **D. F. Torres**
International Journal of Modern Physics D12, 63-78 (2003)

64. Anisotropy at the end of the cosmic ray spectrum? [astro-ph/0209546]
L. Anchordoqui, H. Golberg, & **D. F. Torres**
Physical Review D67, 123006 [6 pages] (2003)

63. Possible gamma-ray pulsar for AGILE and GLAST: The outer gap model look at the Parkes Catalog [astro-ph/0212168]
D. F. Torres, & S. Nuza
ApJ Letters 583, 25-29, (2003)

62. Supernova remnants and gamma-ray sources [astro-ph/0209565]
D. F. Torres, G. E. Romero, T. M. Dame, J. Combi, & Y. M. Butt
(Solicited Review Article)
Physics Reports 382, 303-380 (2003)

61. Discovery of a new radio galaxy within the error box of 3EG J1735-1500 [astro-ph/0301487]
J. Combi, G. E. Romero, J. M. Paredes, **D. F. Torres**, & M. Ribo
ApJ 588, 731-735 (2003)

60. Neutrinos from accreting neutron stars [hep-ph/0211231]
L. Anchordoqui, **D. F. Torres**, T. McCauley, G. E. Romero, & F. Aharonian
ApJ 589, 481-486 (2003)

59. Signatures of hadronic cosmic-rays in starbursts? Photons & neutrinos from NGC 253 [astro-ph/0302149]
G. E. Romero, & **D. F. Torres**
ApJ Letters 586, 33-36 (2003)

58. On the cross correlation between the arrival directions of ultra-high energy cosmic rays, the position of BL Lacertae, and EGRET detections: A new way to identify EGRET sources? [astro-ph/0307079]
D. F. Torres, S. Reucroft, O. Reimer, & L. Anchordoqui
ApJ Letters 595, 13-16 (2003)

57. Testing the binary black hole paradigm through the Iron K-alpha line profile: 3C273 [astro-ph/0308300]
D. F. Torres, G. E. Romero, X. Barcons, & Y. Lu
ApJ Letters 596, 31-34 (2003)

56. Hadronic gamma-rays from windy microquasars [astro-ph/0309123]
G. E. Romero, **D. F. Torres**, M. Kaufman-Bernado, & F. Mirabel
A&A Letters 410, 1-4 (2003)

2002

55. Gravitational lensing as a possible explanation for some unidentified gamma-ray sources at high latitude [astro-ph/0112549]
D. F. Torres, *E. Eiroa* & G. E. Romero
ApJ 560, 600-604 (2002)

54. Accretion disc onto a static non-baryonic compact object [hep-ph/0201154]
D. F. Torres
Nuclear Physics B626, 377-394 (2002)

53. Reissner-Nordstrom black hole lensing [gr-qc/0203049]
E. Eiroa, G. E. Romero, & **D. F. Torres**
Physical Review D65, 024010 [9 pages] (2002)

52. Quasar remnants and ultra-high energy cosmic rays [astro-ph/0204419]
D. F. Torres, E. Boldt, T. Hamilton, & M. Loewenstein
Physical Review D65, 023001 [7 pages] (2002)

51. Quintessence, super-quintessence, and observable quantities in Brans-Dicke and NMC gravity [astro-ph/0204504]
D. F. Torres
Physical Review D66 043522 [15 pages] (2002)

50. Degeneracy in exotic gravitational lensing [gr-qc/0208309]
M. Safonova, & **D. F. Torres**
Modern Physics Letters A17, 1685-1692 (2002)

49. Supernova remnant origin of cosmic rays? [astro-ph/0208034]
Y. M. Butt, **D. F. Torres**, G. E. Romero, T. Dame, & J. Combi
Nature 418, 499 (2002)

2001

48. Microlensing by natural wormholes: theory and simulations [gr-qc/0105070]
M. Safonova, **D. F. Torres**, & G. E. Romero
Physical Review D65, 023001 [15 pages] (2001)

47. Can the source J2033+4118 be produced by Cyg OB2 No.5? [astro-ph/0010605]
P. Benaglia, G. E. Romero, I. Stevens, & **D. F. Torres**
A&A 366, 605-611 (2001)

46. Testing the correlation of ultra-high energy cosmic rays with high redshift sources [astro-ph/0008363]
G. Sigl, **D. F. Torres**, L. Anchordoqui, & G. E. Romero
Physical Review D63, 081302 [4 pages, Rapid Communication] (2001)

45. A variability analysis of low-latitude unidentified gamma-ray sources [astro-ph/0007464]
D. F. Torres, G. E. Romero, J. Combi, P. Benaglia, B. Punsly, & H. Andernach
A&A 370, 468-478 (2001)

44. Macrolensing signatures of large-scale violations of the weak energy condition [astro-ph/0104075]
M. Safonova, **D. F. Torres**, & G. E. Romero
Modern Physics Letters A16, 153-162 (2001)

43. Non-extensivity and the highest energy cosmic ray affair [cond-mat/0009199]
L. Anchordoqui, & **D. F. Torres**
Physics Letters A282, 319-322 (2001)

42. Chromaticity effects in microlensing by wormholes [gr-qc/0104076]
E. Eiroa, G. E. Romero, & **D. F. Torres**
Modern Physics Letters A16, 973-983 (2001)

41. Statistical mechanics and the description of the early universe II. The principle of detailed balance [gr-qc/0105018]
M. E. Pessah, & **D. F. Torres**
Physica A297, 201-228 (2001)

40. Statistical mechanics and the description of the early universe I. Foundations [gr-qc/0105017]
M. E. Pessah, **D. F. Torres**, & H. Vucetich
Physica A297, 164-200 (2001)

39. Self-existing objects and auto-generated information in chronology violating space-times [gr-qc/0106048]
G. E. Romero, & **D. F. Torres**
Modern Physics Letters A16, 1213-1222 (2001)

38. Variable gamma-ray emission from the Be X-ray transient A0535+26? [astro-ph/0107411]
G. E. Romero, M. Kaufman Bernado, J. Combi, & **D. F. Torres**
A&A 376, 599-605 (2001)

37. On the time variability of gamma-ray sources: A numerical analysis of variability indices [astro-ph/0104351]
D. F. Torres, M. E. Pessah, & G. E. Romero
Astronomische Nachrichten 322, 223-227 (2001)

36. Astronomical detection of chromaticity effects in microlensing by wormhole-like objects [gr-qc/0109041]
D. F. Torres, *E. Eiroa* & G. E. Romero
Modern Physics Letters A16, 1849-1861 (2001)

35. Recently discovered pulsars and unidentified gamma-ray sources [astro-ph/0109228]
D. F. Torres, Y. M. Butt, & Fernando Camilo
ApJ Letters 560, 155-159 (2001)

34. Is the supernova remnant RX J1713.7-3946 a hadronic cosmic ray accelerator? [astro-ph/0109292]
Y. M. Butt, **D. F. Torres**, J. Combi, T. Dame, & G. E. Romero
ApJ Letters 562, 163-167 (2001)

33. The mysterious ultra high energy cosmic ray clustering [astro-ph/0106501]
L. Anchordoqui, H. Goldberg, G. E. Romero, J. Swain, & **D. F. Torres**
Modern Physics Letters A16, 2033-2045 (2001)

2000

32. Exact and approximate results of non-extensive quantum statistics [cond-mat/9904097]
U. Tirnakli, & **D. F. Torres**
European Physical Journal B14, 691-698 (2000)

31. Boson stars with generic self-interaction [gr-qc/9911038]
F. E. Schunck, & **D. F. Torres**
International Journal of Modern Physics D9, 601-618 (2000)

30. Cerenkov radiation and scalar stars [gr-qc/0006086]
S. Capozziello, G. Lambiase, & **D. F. Torres**
Class. Quantum Grav. 17, 3171-3182 (2000)

29. A supermassive scalar star at the galactic center? [astro-ph/0004064]
D. F. Torres, S. Capozziello, & G. Lambiase
Physical Review D62, 104012 [15 pages] (2000)

28. An inquiry into the nature of 3EG J1828+01 [astro-ph/0007465]
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1. Nucleosynthesis bounds on scalar-tensor gravity: Power-law couplings
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Additional co-authored papers as a member of collaborations

· Being a member of a collaboration usually implies having responsibilities at the management, technical, or decision- making committees, which are usually reflected in co-authorship of the papers that the corresponding instrument produces. I have also provided direct scientific feedback in many of the papers below, despite I do not include them in my list of main scientific publications.

With the Fermi-LAT collaboration

298. Periodic Gamma-Ray Modulation of the Blazar PG 1553+113 Confirmed by Fermi-LAT and Multiwavelength Observations
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294. The Fourth Catalog of Active Galactic Nuclei Detected by the Fermi Large Area Telescope: Data Release 3
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293. A gamma-ray pulsar timing array constrains the nanohertz gravitational wave background
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292. Search for New Cosmic-Ray Acceleration Sites within the 4FGL Catalog Galactic Plane Sources
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291. Incremental Fermi Large Area Telescope Fourth Source Catalog
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290. A gamma-ray pulsar timing array constrains the nanohertz gravitational wave background
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280. Search for Gamma-Ray Emission from the Coma Cluster with Six Years of Fermi-LAT Data
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279. Investigating the Nature of Late-time High-energy GRB Emission through Joint Fermi/Swift Observations
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276. A gamma-ray determination of the Universe's star formation history
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275. Einstein@Home discovers a radio-quiet gamma-ray millisecond pulsar
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176. gamma-ray lightcurves and variability of bright Fermi-detected blazars
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175. Fermi-LAT and Multi-wavelength Observations of the Flaring Activity of PKS 1510-089 between 2008 September and 2009 June
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161. The First Fermi Large Area Telescope Catalog of gamma-ray Pulsars
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158. Discovery of pulsed gamma-rays from PSR J0034-0534: A search for co-located radio and gamma-ray emission region
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147. Spectral properties of Bright Fermi-detected blazars in the gamma-ray band
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ApJ Letters 695, 72-77 (2009)

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