JOSE MARÍA EZQUIAGA

2018

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Contact Niels Bohr Institute (NBI), jose.ezquiaga@nbi.ku.dk Information University of Copenhagen ezquiaga.github.io Research gravitational waves, dark energy, gravity, Interests black holes, gravitational lensing, early Universe Research Positions Assistant Professor 2022-present Niels Bohr Institute (NBI), University of Copenhagen NASA Einstein Fellow, postdoctoral researcher 2019-22 Kavli Institute for Cosmological Physics (KICP), The University of Chicago Education PhD Universidad Autónoma de Madrid (UAM), Theoretical Physics 2015-2019 Probing the Dark Universe with Gravitational Waves, Thesis Advisor: Juan García-Bellido (IFT/UAM) Research visits: CERN (3 months, 2018), U. C. Berkeley (3 months, 2017) MA Instituto de Física Teórica (IFT), Theoretical Physics 2014-15 Higgs-Dilaton Cosmology: Phenomenology, Self-Consistency and Predictions MA Thesis Advisor: Juan García-Bellido (IFT/UAM) BA Universidad Autónoma de Madrid, Physics 2010 - 14Advanced Methods for Statistical Analysis of the CMB BA Thesis Advisor: Pavel Naselsky (Niels Bohr Institute) Research visits: Niels Bohr Institute (10 months, 2013-14) Grants VILLUM Young Investigator Grant, DKK 8 Million (\simeq \$1.2 Million) 2023-28 Niels Bohr Institute, University of Copenhagen Honors and Awards **Fellowships** Marie Sklodowska-Curie INTERACTIONS Senior Fellow 2022-26 NASA Einstein Fellow 2019-22 KICP Fellow 2019-22 FPU Fellow from Spanish Ministry of Science 2015-19 Postgraduate Fellow from Excellence Campus UAM-CSIC 2014-15 Career prizes Best thesis in theoretical physics from Spanish Royal Society of Physics 2021 Enrique Fuentes Quintana Prize best thesis in STEM 2021 Extraordinary Doctorate Prize from UAM 2020 Sobresaliente Cum Laude doctorate 2019

Sparrho Early Career Research Prize

Scholarships and travel grants

Research Visits Grant at CERN by Spanish Ministry of Science	2018
Conference Grant from Rencontres de Moriond	2018
Conference Grant from TEXAS symposium	2017
Italian Physics Society scholarship for Enrico Fermi School	2017
Research Visits Grant at Berkeley by UAM	2017
Full-scholarship for Summer Courses at UIMP	2014, 2015
Erasmus Scholarship at the Niels Bohr Institute	2013-14
Scholarship for Summer Course at UAM	2012

Professional membership

Scientific Collaborations

Laser Interferometer Gravitational-Wave Observatory (LIGO)	2019-present
Laser Interferometer Space Antenna (LISA)	2018-present
Cosmic Explorer Consortium (CE)	2019-present

Networks

EuCAPT Consortium, GWverse COST Action, CANTATA COST Action

Associations

American Physical Society, Spanish Royal Society of Physics

Metrics

Publications

42 publications, 3837 citations (91.4 per paper), h-index 27.

See full publication list below. More info/statistics at InSpire, arXiv and ADS.

Presentations

38 invited seminars, 44 talks at conferences (15 of which invited) and 5 posters.

Presentation slides/videos from selected talks can be found at ezquiaga.github.io/talks. See full presentation list below.

Leadership

LIGO:

PI NBI LIGO group	2023-present
Co-chair LVK Lensing group	2022-present
Editorial Team member LIGO/Virgo GW lensing search	2020-23
Coordinator Test ACDM focus group	2021-23
LISA:	
Contributor LISA Red book	2022-23
Coordinator Standard Siren chapter of Cosmology White Paper	2020-21
NBI:	
Organizer NBIA Gravity Seminars	2022-present
UChicago:	
Organizer KICP seminars	2020-21
Coordinator Community-Engagement Working Group	2020-22
Organizer 1st KICP-A&A Outreach Symposium	2020
Organizer KICP Postdoc Jamboree	2020, 2022
Organizer Funch Journal Club	2019-20

Teaching and Mentoring

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Main instructor Black Holes and Gravitational Waves, MSc/PhD course, NBI, 7.5 ECTS (sy Data and Project, BSc (1st yr.), project supervisor, NBI, 7.5 ECTS (syllabute Exploring our universe, summer course, STEM-OUT Mexico/UChicago (vir GWs and Cosmology, PhD school, IPARCOS (Madrid, Spain)	us) 2024
Invited lectures Nordic Winter School in Multi-Messenger Astronomy, PhD school, Norway Nordic Winter School in Gravitational Astrophysics, PhD school, Norway Multi-messenger Astronomy, undergrad course, UChicago (virtual)	2024 2023 2021
Teaching assistant Classical Electrodynamics, 3rd and 4th yr Physics Degree, UAM Physics Lab., 1st year Biology Degree, UAM Physics of the Cosmos, 4th year Physics Degree, UAM Physics Lab., 1st year Biology Degree, UAM	2018-19 2017-18 Spring 2017 Jan. 2017
Pedagogy, teaching and mentoring courses Using methods from innovation and entrepreneurship, Univ. of Copenhagen Mentoring Training, Science Better Consulting (virtual) Active Learning, UAM Introduction to Flipped Classroom, UAM	Jan. 2023 Fall 2022 Fall 2018 Feb. 2018
Graduate student mentoring Luka Vujeva, NBI, PhD supervisor Chun-Lung (Juno) Chan, NBI, PhD supervisor Mesut Çalişkan, John Hopkins University, 1 published, 1 ongoing projects Víctor Bosca, UAM, 1 ongoing Fei Xu, UChicago, 2 published articles Meng-Xiang Lin, UChicago, 2 published articles Paolo Cremonese, University of Szczecin, 1 published article	2023-present 2022-present 2021-present 2021-present 2020-22 2020-22 2020-21
Master student mentoring Miao Shang, NBI, MSc Thesis supervisor (60 ECTS) Patsrikasem Vanitcharenthum, NBI, MSc Thesis supervisor (45 ECTS) Andreas Tsigkas, NBI, Research project supervisor (POCS, 7.5 ECTS) Miao Shang, NBI, Research project supervisor (POCS, 15 ECTS) Spring-	2023-present 2022-23 Spring 2024 summer 2023
Undergraduate student mentoring Mesut Çalişkan, UChicago, 1 published article	2020-21
Career panels LISA Early Career Scientists (LECS) Career Fair	Nov. 2020
Student resources Coding tutorials and research tools https://github.com/ezquiaga/student_resources	

Service

Grant reviewer NASA FINNEST (grants for graduate student research) NASA FINNEST (grants for graduate student research) Research Grant Council of Hong Kong (grants for academic research)	2021 2020 2020
Referee Physical Review Letters, Physical Review D, Journal of Cosmology and A Physics, Physical Letters B and International Journal of Modern Physics I	_
Organized seminars and journal clubs NBIA Gravity Seminars (every two week) KICP Seminars (every week) Thunch Journal Club at KICP (every week) CosmoGrav Journal Club at IFT (main organizer, every 2 weeks)	2022-present 2020-2021 2019-2020 2016-2019
Organized conferences & Schools Black Holes Inside and Out (LOC, NBI, website) Nordic Winter School (Organizer, Norway, website) NBIA Workshop (Organizer, NBI, website) LISA Fundamental Physics WG Meeting (Organizer, NBI, website) Nordic Winter School (Organizer, Norway, website) The quest for precision GW cosmology (Main organizer, KICP, website) NASA Hubble Symposium 2020 (SOC, virtual) 6th LISA Cosmology WG (local organizer, IFT) DES Meeting 2015 (local organizer, IFT)	Aug. 2024 Feb. 2024 Aug. 2023 Aug. 2023 Feb. 2023 Sept. 2022 Sept. 2020 January 2019 October 2015
Contact representative of Junior Faculty, Sec. 9, NBI	2022-present

2012-13

Elected representative of 3rd year Physics students at UAM

Outreach and Community Engagement

The state of the s	
Projects and initiatives Conversations about the South Side, seminar series (co-organizer)	Fall 2021
UChicago Police Department Listening Sessions (participant)	2020-21
/	Oct. 2020
KICP podcast, interviews to early career scientists (co-organizer, every week)	2020-21
KICP postdoc handbook, a guide for new members (co-organizer)	2020
Grants	
Physical Science Division EDI Inclusive Climate Grant at UChicago (\$2k)	2021, 22
Service	
Coordinator A&A Community-Engagement Working Group	2020-22
Postdoc office hours	2020-22
Public Talks	
Astronomy on Tap (Copenhagen)	Oct. 2023
NBIA Public Lecture, Folkeuniversitet (Copenhagen)	Oct. 2023
Public Talk for Life Long Learning (virtual)	June 2021
Fireside chat with SACNAS UChicago (virtual) M	Iarch 2021
Public Talk for Life Long Learning (virtual)	Sept. 2020
Public Talk at Chicago Cultural Center	Oct. 2019
Public Talk at Pint of Science (Madrid)	May 2019
Public Talk at CAUM (Madrid)	Feb. 2019
Talk at High School El Pinar (Madrid)	Feb. 2018
Talk at High School Parque Lisboa (Madrid)	Dec. 2017
Public talk at Madrid Science Week	Nov. 2017
Outreach articles	
El origen de las galaxias detectadas por el JWST y los cúmulos masivos como El Gor	
Revista de la Real Sociedad Española de Física (in Spanish)	June 2023
Descubriendo el lado oscuro del universo con ondas gravitacionales	Feb. 2018
Blog Red Temática de Relatividad y Gravitación (in Spanish)	
Outreach videos	
Podrían los agujeros negros ser la materia oscura del universo?	Sep. 2018
Video for the IFT YouTube channel (in Spanish)	_
Media see $News$ section at ezquiaga.github.io/news	
Additional training	
Schools	
Enrico Fermi School, GWs and Cosmology (Varenna, Italy)	2017
TRR33 Cosmology Winter School (Passo del Tonale, Italy)	2016
	2010
Computing Courses	0015
Software Carpentry Workshop, IFT (Madrid, Spain)	2017
Summer Courses	
CERN physics, Universidad Internacional Menéndez Pelayo (Santander, Spain) 2	
Astronomy of 21st century, UAM (Madrid, Spain)	2012

Publication list

Citations according to inspirehep.net on February 28, 2024

42. LISA Definition Study Report
Colpi et al. (incl. JM. Ezquiaga)

(arXiv:2402.07571, 1 citations)

41. Cosmography with next-generation gravitational wave detectors HY. Chen, **JM. Ezquiaga** and I. Gupta

(*Invited article, arXiv:2402.03120, 1 citations)

40. TESLA-X: An effective method to search for sub-threshold lensed gravitational waves with a targeted population model

Li et al. (incl. **JM. Ezquiaga**) (arXiv:2311.06416)

39. Primordial black holes and their gravitational-wave signatures

Bagui et al. (incl. $\mathbf{JM.}$ $\mathbf{Ezquiaga})$

(arXiv:2310.19857, 19 citations)

38. Identifying strongly lensed gravitational waves through their phase consistency

JM. Ezquiaga, W. Hu, R. K. L. Lo

Phys. Rev. D 108 (2023), 103520 (arXiv:2308.06616, 2 citations)

37. Probing wave-optics effects and dark-matter subhalos with lensing of gravitational waves from massive black holes

M. Çalişkan et al. (incl. JM. Ezquiaga)

Phys.Rev.D 108 (2023) 12, 123543 (arXiv:2307.06990, 8 citations)

36. Follow-up Analyses to the O3 LIGO-Virgo-KAGRA Lensing Searches

J. Janquart et al (incl. JM. Ezquiaga)

Mon.Not.Roy.Astron.Soc. 526 (2023) 3, 3832-3860 (arXiv:2306.03827, <u>8 citations</u>)

35. Search for gravitational-lensing signatures in the full third observing run of the LIGO-Virgo network

LIGO Scientific, Virgo and KAGRA Collaborations (incl. ${f JM.}$ Ezquiaga)

(*Editorial team member, arXiv:2304.08393, 29 citations)

34. Probing lens-induced gravitational-wave birefringence as a test of general relativity S. Goyal, A. Vijaykumar, **JM. Ezquiaga** and M. Zumalacárregui Phys. Rev. D (2023) 108, 024052 (arXiv:2301.04826, 11 citations)

33. Things that might go bump in the night: Assessing structure in the binary black hole mass spectrum

A. Farah et al. (incl. **JM. Ezquiaga**)

Astrophys.J. 955 (2023) 2, 107 (arXiv:2301.00834, 31 citations)

32. The Hitchhiker's guide to the galaxy catalog approach for gravitational wave cosmology J. Gair et al. (incl. **JM. Ezquiaga**)

Astronomical Journal 166 22 (2023) (arXiv:2212.08694, 18 citations)

31. Could "El Gordo" be hinting at primordial quantum diffusion?

JM. Ezquiaga, J. Garcia-Bellido and V. Vennin

Phys.Rev.Lett. 130.121003 (2023) (arXiv:2207.06317, 21 citations)

30. New Horizons for Fundamental Physics with LISA

Arun et al. (incl. JM. Ezquiaga)

Living Rev.Rel. 25 (2022) 1, 4 (Section Contributor, arXiv:2205.01597, 133 citations)

29. Cosmology with the Laser Interferometer Space Antenna

Auclair et al. (incl. JM. Ezquiaga)

Living Rev Relativ 26, 5 (2023) (*Section Coordinator, arXiv:2204.05434, 224 citations)

28. Modified gravitational wave propagation with higher modes and its degeneracies with lensing

JM. Ezquiaga, W. Hu, M. Lagos, M-X. Lin and F. Xu JCAP 08 (2022) 016 (†Supervising student, arXiv:2203.13252, 13 citations)

27. Spectral sirens: cosmology from the full mass distribution of compact binaries JM. Ezquiaga and D. Holz

Phys.Rev.Lett. 129.061102 (2022) (arXiv:2202.08240, <u>50 citations</u>)

- Lensing or luck? False alarm probabilities for gravitational lensing of gravitational waves Mesut Çalişkan, JM. Ezquiaga, O. Hannuksela and D. Holz Phys. Rev. D 107 (2023) 06, 3023 († Supervising student, arXiv:2201.04619, 23 citations)
- 25. Gravitational wave propagation beyond general relativity: waveform distortions and echoes **JM. Ezquiaga**, W. Hu, M. Lagos and M-X. Lin JCAP 11 (2021) 048 († Supervising student, arXiv:2108.10872, 34citation)
- 24. Please repeat: Strong lensing of gravitational waves as a probe of compact binary and galaxy populations

Fei Xu, JM. Ezquiaga and D. Holz

ApJ 929 (2022) 09 († Supervising student, arXiv:2105.14390, 48 citations)

23. Modified Gravity and Cosmology: An Update by the CANTATA Network
E. Saridakis et al (incl. JM. Ezquiaga)
Springer Book 2021 (★Invited chapter, arXiv:2105.12582, 275 citations)

22. Search for lensing signatures in the gravitational-wave observations from the first half of LIGO-Virgo's third observing run

LIGO Scientific and Virgo Collaborations (incl. JM. Ezquiaga)

ApJ 923 (2021) 14 (*Editorial Team member, arXiv:2105.06384, 105 citations)

21. The missing link in gravitational-wave astronomy: a summary of discoveries waiting in the decihertz range

M Arca Sedda et al. (inlc. JM. Ezquiaga)

Exper. Astron. (2021) (arXiv:2104.14583, 21 citations)

20. Breaking the mass-sheet degeneracy with gravitational wave interference in lensed events P. Cremonese, **JM. Ezquiaga** and V. Salzano

Phys.Rev.D 104 (2021) 02, 023503 († Supervising student, arXiv:2104.07055, 28 citations)

19. Hearing gravity from the cosmos: GWTC-2 probes general relativity at cosmological scales JM. Ezquiaga

Phys.Lett.B 882 (2021) 136665 (arXiv:2104.05139, 31 citations)

18. Gravitational wave lensing beyond general relativity: birefringence, echoes and shadows **JM. Ezquiaga** and M. Zumalacárregui

Phys.Rev.D 102 (2020) 12, 124048 (*Editors Suggestion, arXiv:2009.12187, <u>55 citations</u>)

17. Phase effects from strong gravitational lensing of gravitational waves

JM. Ezquiaga, D. Holz, W. Hu, M. Lagos, R. Wald

Phys.Rev.D 103 (2021) 6, 064047 (arXiv:2008.12814, 73 citations)

16. Jumping the Gap: Searching for LIGO's Biggest Black Holes

JM. Ezquiaga and D. Holz

Astrophys.J.Lett. 909 (2021) 2, L23 (* AAS highlight, arXiv:2006.02211, 63 citations)

15. Apparent Superluminality of Lensed Gravitational Waves

JM. Ezquiaga, W. Hu and M. Lagos

Phys.Rev.D 102 (2020) 2, 023531 (arXiv:2005.10702, 26 citations)

14. Prospects for Fundamental Physics with LISA

E. Baurasse et al. (incl. **JM. Ezquiaga**)

Gen.Rel.Grav. 52 (2020) 8, 81 (arXiv:2001.09793, 287 citations)

- 13. Probing cosmological fields with gravitational wave oscillations
 - J. Beltran, JM. Ezquiaga and L. Heisenberg

JCAP 04 (2020) 027 (arXiv:1912.06104, 27 citations)

12. The exponential tail of inflationary fluctuations: consequences for primordial black holes **JM. Ezquiaga**, J. Garcia-Bellido and V. Vennin JCAP 03 (2020) 029 (arXiv:1912.05399, 151 citations)

11. The missing link in gravitational-wave astronomy: discoveries waiting in the decihertz range

M Arca Sedda et al. (inlc. **JM. Ezquiaga**)

Class.Quant.Grav. 37 (2020) 21, 215011 (arXiv:1908.11375, 115 citations)

10. High angular resolution gravitational wave astronomy

J. Baker et al. (inlc. JM. Ezquiaga)

Exper. Astron. 51 (2021) 3, 1441-1470 (arXiv:1908.11410, 51 citations)

9. Testing modified gravity at cosmological distances with LISA standard sirens LISA Cosmology Working Group (inlc. **JM. Ezquiaga**)

JCAP 07 (2019) 024 (arXiv:1906.01593, 179 citations)

8. Electromagnetic probes of primordial black holes as dark matter

Kashlinsky et al. (inlc. JM. Ezquiaga)

Astro2020 Science With paper (arXiv:1903.04424, 36 citations)

7. Dark Energy in light of Multi-Messenger Gravitational-Wave astronomy

JM. Ezquiaga and M. Zumalacárregui

Front. Astron. Space Sci. 5 (2018) 44

(*Invited review at Frontiers, arXiv:1807.09241, 186 citations)

6. Quantum diffusion beyond slow-roll: implications for primordial black-hole production

JM. Ezquiaga and J. García-Bellido

JCAP 2018 (2018) no.08, 018 (arXiv:1805.06731, 101 citations)

5. Dark Energy after GW170817: dead ends and the road ahead

JM. Ezquiaga and M. Zumalacárregui

Phys.Rev.Lett. 119.251304 (2017)

(*Editors' suggestion and Physics Viewpoint, arXiv:1710.05901, 850 citations)

4. Primordial Black Hole production in Critical Higgs Inflation

JM. Ezquiaga, J. García-Bellido and E. Ruiz Morales

Phys.Lett.B 776. 345-349 (2018) (arXiv:1705.04861, 252 citations)

3. Field redefinitions in theories beyond Einstein gravity using the language of differential forms

- **JM. Ezquiaga**, J. García-Bellido and M. Zumalacárregui Phys.Rev.D 95, 084039 (2017)(arXiv:1701.05476, 28 citations)
- Speed of Gravitational Waves and the Fate of Scalar-Tensor Gravity
 D. Bettoni, JM. Ezquiaga, K. Hinterbichler and M. Zumalacárregui
 Phys.Rev.D 95, 084029 (2017) (arXiv:1608.01982, 178 citations)
- 1. Towards the most general scalar-tensor theories of gravity: a unified approach in the language of differential forms
 - **JM. Ezquiaga**, J. García-Bellido and M. Zumalacárregui Phys.Rev.D 94, 024005 (2016) (arXiv:1603.01269, 46 citations)

Presentation list

Presentation slides and videos from selected talks can be found at ezquiaga.github.io/talks

Invited seminars

invited seminars	
38. Albert Einstein Institute (Postdam, Germany)	April 2024
37. Instituto de Física Teórica UAM-CSIC (Madrid, Spain)	Nov. 2023
36. CGCA/UWM Seminar (Milwaukee, US)	March 2023
35. ICCUB Cosmology Seminar (Barcelona, Spain)	Feb. 2023
34. IFAE Theory Seminar (Barcelona, Spain)	Feb. 2023
33. Cosmic Explorer Science Talk (virtual)	March 2022
32. University of Hawaii Cosmology Seminar (virtual)	March 2022
31. IAS Astrophysics Seminar (Princeton, US)	March 2022
30. Winnipeg Theory Institute Colloquium (virtual)	Feb. 2022
29. Winnipeg Physics Colloquium (virtual)	Feb. 2022
28. CITA seminar (virtual)	Feb. 2022
27. UMass Dartmouth Seminar (virtual)	Dec. 2021
26. CfA Harvard Seminar (virtual)	Nov. 2021
25. University of Pennsylvania Astronomy & Astrophysics Seminar (virtual)	Nov. 2021
24. Caltech TAPIR seminar (Pasadena, US)	Oct. 2021
23. Perimeter Institute Strong Gravity seminar (virtual)	Oct. 2021
22. University of California at Davis seminar (virtual)	Sep. 2021
21. Johns Hopkins University seminar (Baltimore, US)	Sep. 2021
20. Columbia Theory seminar (virtual)	Sep. 2021
19. LIGO-Virgo webinar for first lensing search (virtual, co-presenter)	May 2021
18. FNAL astro seminar (virtual)	Oct. 2020
17. SISSA/IFPU gravity webminar (virtual)	Oct. 2020
16. University of Illinois Urbana-Champaign (virtual)	Sept. 2020
15. University of Minnesota (US)	Feb. 2020
14. DESI lunch seminar UC Berkeley (US)	Dec. 2019
13. Institute of Theoretical Astrophysics University of Oslo (Norway)	June 2018
12. ITP Heidelberg Cosmo Seminar (Germany)	June 2018
11. University of Geneva Cosmo Seminar (Switzerland)	June 2018
10. Max Planck Institute Astrophysics Cosmo Seminar (Germany)	May 2018
9. CERN Cosmology Seminar (Switzerland)	May 2018
8. EPFL High Energy Theoretical Physics Seminar (Switzerland)	Apr. 2018
7. De Madrid al Cosmos Seminar UCM (Spain)	Mar. 2018
6. ICCUB Seminar University of Barcelona (Spain)	Feb. 2018
5. Cosmology Seminar University of Cape Town (South Africa)	Dec. 2017
4. Caltech Theoretical Cosmology Seminar (US)	Jun. 2017
3. Lawrence Berkeley National Laboratory INPA Seminar (US)	Jun. 2017
2. Stanford Institute for Theoretical Physics Seminar (US)	May 2017
1. Nordita/OKC High Energy Physics Theory Seminar (Sweden)	May 2016
Talks at conferences (*invited speaker)	
44.*Netherlands Theoretical Cosmology Meeting (Leiden)	March 2024
43.*Synergies between strong and weak lensing (Chicago)	$\mathrm{Aug}\ 2023$
42.*GWpop next (Milan)	July 2023
41.*EuCAPT Annual Symposium (CERN)	May 2023
40.*Progress in Old and New Themes in Cosmology, (Avignon, France)	May 2023

	39. 3rd Gravitational Wave Meeting in Denmark, (Aalborg)	Jan. 2023
	38. NHFP Symposium, (Space Institute, Baltimore)	Sept. 2022
	37.*8th PAX Meeting, (MIT, Boston)	Aug. 2022
	36. Aspen Center for Physics, (Aspen)	June 2022
	35. Intermediate Mass Black Holes, (Puerto Rico)	May. 2022
	34.*LISA Fundamental Physics Meeting, (Brussels)	April 2022
	33.*APS April Meeting, (NYC)	April 2022
	32. NASA Hubble Fellowship Program Symposium, (virtual)	Oct. 2021
	31.*KICP Colloquium Postdoc Jamboree, (Chicago)	Oct. 2021
	30. COSMO'21, (virtual)	Aug 2021
	29. European Physical Society HEP, (virtual)	July 2021
	28. Amaldi 14, (virtual)	July 2021
	27. Division of Particles and Fields APS meeting, (virtual)	July 2021
	26.*1st EuCAPT annual symposium, (lightening talk, virtual)	May 2021
	25. April APS meeting, (virtual)	April 2021
	24. Pacific Coast Gravity meeting, (virtual)	March 2021
	23. Moriond Gravity, (virtual)	March 2021
	22. Primordial black holes confront GWs, (invited panelist, virtual)	Feb. 2021
	21. Midwest Relativity Meeting, (virtual)	Oct. 2020
	20. NASA Hubble Fellowship Program Symposium, (virtual)	Sept. 2020
	19. XIII LISA Symposium, (virtual)	Aug. 2020
	18. Cosmology from Home, (virtual)	Aug. 2020
	17.*7th LISA Consortium, (virtual)	July 2020
	16. April APS meeting, (virtual)	April 2020
	15. GRAvedad, Supergravedad y Supercuerdas meeting, IFT (Madrid, Spain)	Dec. 2019
	14. NASA Hubble Fellowship Program Symposium (Washington DC)	Oct. 2019
	13.*3rd CANTATA Meeting (Malta)	Mar. 2019
	12. Testing Gravity (Vancouver, Canada)	Jan. 2019
	11.*A fresh look at the Universe CERN (Geneva, Switzerland)	July 2018
	10. The dawn of GWs science MITP program (Mainz, Germany)	June 2018
	9. 53rd Rencontres de Moriond Cosmology session (La Thuile, It.)	Mar. 2018
	8.*53rd Rencontres de Moriond ElectroWeak session (La Thuile, It.)	Mar. 2018
	7. 29th International Texas Symposium (Cape Town, South Africa)	Dec. 2017
	6. DESY Theory Workshop 2017 (Hamburg, Germany)	Sep. 2017
	5. Understanding Cosmological Observations (Benasque, Spain)	Aug. 2017
	4. VIII CPAN Days (Zaragoza, Spain)	Nov. 2016
	3. V Postgraduate Meeting on Theoretical Physics (Oviedo, Spain)	Nov. 2016
	2. 12th Workshop Dark Side of the Universe (Bergen, Norway)	July 2016
	1. 11th Iberian Cosmology Meeting (Vila do Conde, Portugal)	Mar. 2016
I	Posters	
	5. NBIA Day (Copenhagen)	Feb. 2023
	4. KICP Poster session (Chicago)	Aug. 2022
	3. LIGO-Virgo Collaboration meeting (virtual)	Sept. 2020
	2. Testing Gravity (Vancouver, Canada)	Jan. 2019
	1. TRR33 Cosmology Winter School (2nd prize, Italy)	Dec. 2016

 $Last\ update:$ February 28, 2024