Invited talks

- 51. 08/22/23 University of Texas at Austin (USA), Axions as dark matter or dark radiation
- 50. 07/18/23 University of Bologna (IT), The interplay of primordial black holes, dark matter, and axions
- 49. 05/16/23 Fudan University, Shanghai (CHN), Dark radiation in the Universe
- 48. 02/09/23 University of Napoli (IT), The interplay of primordial black holes, dark matter, and axions
- 47. 02/09/23 Trento (IT), The interplay of primordial black holes and particle dark matter
- 46. 02/06/23 Ferrara (IT), The interplay of primordial black holes and particle dark matter
- 45. 01/26/23 DESY (DE), Novel Cosmological Bounds on Thermally-produced Axion-like Particles
- 44. 05/20/22 Chinese Academy of Science, Beijing (CHN), Radio signals from axions conversion
- 43. 04/27/22 KEK, Tsukuba (JP), Radio signals from axions conversion
- 42. 04/08/22 Indian Institute of Technology, Mumbai (IN), Superradiance evolution of black hole shadows
- 41. 12/15/21 University of Helsinki (FI), Radio signals from axion miniclusters colliding with neutron stars
- 40. 10/14/21 SISSA, Trieste (IT), Radio signals from axion miniclusters colliding with neutron stars
- 39. 06/11/21 University of L'Aquila (IT), The population of axion miniclusters in the Galaxy
- 38. 04/26/21 Shanghai Jiao Tong University, Shanghai (CHN), Direct detection of dark energy
- 37. 02/17/21 Kavli IPMU, Tokyo (JP), The interplay of primordial black holes and particle dark matter
- 36. 11/04/20 Institute of Physics, Academia Sinica (TW), Compact objects and dark matter
- 35. 10/13/20 Undergraduate seminar, Colgate University (NY), One dark matter candidate: the axion
- 34. 06/04/20 International Institute of Physics, Natal (BR), Radio and gravitational wave signals from cosmic axions [LINK to the YouTube video on the IIP channel: https://rb.gy/tsg0of]
- 33. 05/11/20 Newton 1665 webinars series, New physics out of the Shadow
 [LINK to the YouTube video on the Newton1665 channel: https://www.youtube.com/watch?v=yCDUfzv8oKY]
- 32. 04/29/20 Latin American Webinars (LAWphysics) series, Astrophysics with axion stars and miniclusters [LINK to the YouTube video on the LAWphysics channel: https://www.youtube.com/watch?v=ilfmBKMgyH8]
- 31. 04/07/20 University of Texas at Austin (USA), The future of light boson dark matter
- 30. 03/02/20 DAMTP Institute of Astronomy, University of Cambridge (UK), Light boson dark matter
- 29. 12/20/19 National Institute Of Chemical Physics And Biophysics, Tallinn (ES), Light boson dark matter
- 28. 11/27/19 Fudan University, Shanghai (CHN), Testing the rotational nature of the supermassive object M87*
- 27. 11/25/19 Shanghai Jiao Tong University, Shanghai (CHN), Light bosons as dark matter candidates
- 26. 11/07/19 Nordita, Stockholm (SE), Testing the rotational nature of the supermassive object M87*
- 25. 05/21/19 INFN Frascati, Rome (IT), Axion miniclusters and implications for axion detection
- 24. 05/10/19 Wayne State University, MI (USA), Probing the Early Universe with Axion Physics
- 23. 05/01/19 Kavli Institute for Cosmological Physics, IL (USA), Probing the Early Universe with Axions
- 22. 04/30/19 Argonne National Laboratory, IL (USA), Probing the Early Universe with Axions
- 21. 04/25/19 University of Michigan, MI (USA), The Quest for the Axion
- 20. 04/17/19 Barry University, FL (USA), Introduction to Cosmology and Particle Physics
- 19. 04/12/19 University of Florida, FL (USA), Probing the Early Universe with Axion Physics
- 18. 04/04/19 IFIC, Valencia (ES), Probing the Early Universe with Axions
- 17. 01/08/19 SISSA, Trieste (IT), The Cold Dark Matter axion and Axion Stars
- 16. 10/23/18 Nikhef Amsterdam (NL), The Quest for the Axion

- 15. 11/30/18 INFN Frascati, Rome (IT), Motivations for the search of light axions
- 14. 10/23/18 University of Bologna (IT), Searching for Axions and the String Axiverse in the Cosmo
- 13. 10/18/18 INFN Frascati, Rome (IT), Searching for Axions in the Lab and in the Cosmo
- 12. 04/11/18 Latin American Webinars (LAWphysics) series, The axion in cosmology and astrophysics [LINK to the YouTube video on the LAWphysics channel: https://www.youtube.com/watch?v=YWqVpPrpLjw]
- 11. 02/01/18 CEICO, Prague (CZ), The Cold Dark Matter axion and Axion Stars
- 10. 12/01/17 University of Turin (IT), The Cold Dark Matter axion and Axion Stars
- 9. 08/16/17 University of Oslo (NO), Dark matter capture and neutrino observatories
- 8. 06/15/17 University of Bologna (IT), Dark matter capture and neutrino observatories
- 7. 02/01/07 University of Michigan, MI (USA), Axion cold dark matter, miniclusters, and axion stars
- 6. 10/25/16 University of Helsinki (FI), Axion cold dark matter, status and perspectives
- 5. 01/21/16 University of Zaragoza (ES), Axion cold dark matter, status and perspectives
- 4. 06/03/13 CMCC Lecce (IT), Impacts of Data Assimilation on the Global Ocean Carbonate System
- 3. 06/15/11 University of Pisa (IT), Axion cold dark matter in standard and non-standard cosmologies
- 2. 10/12/10 University of New Mexico, NM (USA), An integral equation for distorted-wave amplitudes
- 1. 05/21/09 University of Bologna (IT), Axion cold dark matter revisited

Conference talks

- 40. 11/16-18 23 The 9th China LHC Physics Workshop (CLHCP2023), Shanghai (CHN), Theoretical Motivations for Hidden Light Bosons
- 39. 11/10-13 23 International Symposium on Cosmology and Particle Astrophysics CosPA 2023, Hong Kong, Direct detection experiments and light bosons
- 38. 10/30-11/3 23 IBS Conference on Dark World 2023, IBS Science and Culture Center, Daejeon (Korea), Direct detection experiments and light bosons
- 37. 09/15 23 Dark Energy from Fundamental Theories to Observations, Frascati (Italy), Direct detection experiments and light chameleons
- 36. 09/11-14 23 Plenary talk on axions at TeVPA 2023, Napoli (Italy), The QCD axion: theory, phenomenology, and searches
- 35. 06/19-21 23 New Horizons in Primordial Black Hole physics (NEHOP), Napoli (Italy), Primordial black holes and particle dark matter are intimately intertwined
- 34. 06/5-9 23 Axion Across Boundaries, Galileo Galilei Institute, Arcetri (Italy), Axions and inflation [YouTube]
- 33. 02/23-24 23 Kick-off Meeting of COST Action COSMIC WISPers, INFN Frascati (Italy), Axions and PBHs
- 32. 11/18-20 22 Particle Physics and Cosmology Symposium 2022, Shanghai (CHN), Novel Cosmological Bounds on Thermally-produced Axion-like Particles
- 31. 11/29-12/03 21 Sixth Colombian Meeting on High Energy Physics , Santa Marta (CO), Plenary speaker: Future probes of light bosons
- 30. 10/12-13/21 Cosmology Frontier in Particle Physics: Astroparticle Physics and Early Universe, NCTS NTU, Axion miniclusters in the Milky Way
- 29. 07/5-16/21 Cosmology from Home 2021, Direct detection of dark energy [LINK to YouTube video]
- 28. 05/15/21 TDLI International Workshop "Current Topics on Axion", Shanghai Jiao Tong University, Shanghai (CHN), Indirect probes of axion dark matter
- 27. 10/13-16/20 The 5th IBS-IFT-MultiDark Workshop, Institute for Basic Science (IBS), Daejeon (KR), Recent and future developments of dark matter axion physics
- 26. 09/24/20 CoCo 2020: Cosmology in Colombia, Bogotá (CO), Constraints on Reheating to SM Particles due to Large Effective Higgs Boson Mass

- 25. 08/24/20 Cosmology from Home, Axion Miniclusters: Tidal Disruption and Radioastronomy
- 24. 07/21/20 IDM2020, Zurich (CH), The future of Axion Physics
- 23. 09/2-6/19 TeVPA 2019, Sydney (AU), Probing the Early Universe with Axion Physics
- 22. 06/24-06/26 Vera Rubin Fest, Washington DC (USA), Axions
- 21. 06/10-14/19 Invisibles 19, Valencia (ES), Coordinating one of the panel discussion session
- 20. 12/18/18 SLAP 2018, King's College London (UK), The Cold Dark Matter axion and Axion Stars
- 19. 12/11/18 The quest for New Physics, Instituto de Física Corpuscular (ES), Axion Stars
- 18. 09/05/18 Invisibles 18 Workshop, Karlsruhe Institute of Technology (DE), Dilute and dense axion stars
- 17. 06/20/18 14th Patras Workshop, DESY Hamburg (DE), The Higgs Boson can delay Reheating after Inflation
- 16. 06/12/18 Preparing for Dark Matter Particle Discovery, Chalmers University of Technology, Goteborg (SE), The Higgs Boson can delay Reheating after Inflation
- 15. 03/07/18 Ultralight Dark Matter and Axions, University of Michigan (USA), The parameter space of axion-like particles
- 14. 02/22/18 UCLA Dark Matter 2018, UCLA (USA), Axions in cosmology and astrophysics
- 13. 08/31/17 DavCO, CP³ Origin (DK), Axions and ALPs as the Cold Dark Matter
- 12. 08/04/17 Self-interacting dark matter, Niels Bohr Institute (DK), Sharpening Fuzzy Dark Matter
- 11. 07/19/17 Advances in Theoretical Cosmology in Light of Data Nordita (SE), Axion dark matter
- 10. 12/06/16 Axion Dark Matter workshop, Nordita (SE), Axion dark matter, miniclusters, and axion stars
- 9. 08/12/16 IDM2016, Sheffield (UK), Galactic Cold Dark Matter from First Principles
- 8. 09/07/15 TAUP 2015, Turin (IT) Analytical expressions for the kinetic decoupling of WIMPs
- 7. 11/19/14 GEOCARBON Final Meeting, Paris (FR),
 Summary contribution to GEOCARBON from Land and Ocean Components
- 6. 07/08/14 NEMO Users Meeting, Grenoble (FR),
 Assimilation of Physical and Carbonate Data on the Global Ocean Carbonate System
- 5. 10/15/10 American Physical Society Four Corners Meeting, Ogden (USA), An integral equation for distorted-wave amplitudes
- 4. 07/13/10 PPC 2010 Conference, Turin (IT), An integral equation for distorted-wave amplitudes
- 3. 03/28/10 SnowPac & SnowCluster 2010, Alta (USA), Axion dark matter in non-standard cosmologies
- 2. 07/02/09 TAUP 2009, Rome (IT), Axion cold dark matter revisited
- 1. 10/20/07 American Physical Society Four Corners, Flagstaff (USA), Oscillation amplitude for neutrino wave packets

Workshop attendance

- May 2023 Axions across boundaries between Particle Physics, Astrophysics, Cosmology and forefront Detection Technologies, Galileo Galilei Institute, Arcetri (IT)
- 4. April 2017 The 5th MCTP Spring Symposium, Ann Arbor, MI (USA)
- 3. September 2014 Data Assimilation in Ocean Physics, Trieste (Italy)
- 2. June 2013 Advanced School on Data Assimilation, Bologna (Italy)
- 1. December 2009 Focus week on indirect dark matter search, IPMU Tokyo (Japan)