

PERSONAL INFORMATION

Michele Doro



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CURRENT OCCUPATION

2018/12-now **Associate Professor** in Experimental Physics of Fundamental Interactions at University of Padova, Department of Physics and Astronomy.

WORK EXPERIENCE

- 2015/12-2018/11 **Assistant Professor** Tenure-track assistant professor position at University of Padova (contract type RTDB Art.24.3.B of Law 240 30 Dec 2010)
- 2015/03–2015/08 **Postdoctoral fellowship.** Post-doc at Max Planck Institute fuer Physik, Munich (Germany). Duration: 6 months.
- 2014/12–2015/02 **Postdoctoral fellowship.** 3-months post-doc contract at Institut de Fisica d'Altes Energies (IFAE, Barcelona, Spain)
- 2013/03–2015/02 **Postdoctoral fellowship.** Two-yeara “Assegno di Ricerca Senior” (Senior Fellowship) at Università degli Studi di Padova with the title “*Shedding light on the dark with precision gamma ray astronomy. Hardware and Science searches to prepare the ground for the new generation of Cherenkov telescopes to build*”.
- 2010/06–2013/02 **Postdoctoral fellowship.** 33 months contract with the Spanish Consolider-Ingenio 2010 programs CPAN (Centro Nacional de Física de Partículas, Astropartículas y Nuclear) CPAN09-PD13 at Universitat Autònoma of Barcelona (UAB, Barcelona, Spain), Grup de Física de les Radiacions. Supervisor prof. [Redacted] Guiteras through the Insitut de Fisica d'Altes Energies (IFAE, Barcelona, Spain).
- 2010/01–2015/06 **Reserch contract** “Ricerca indiretta di Materia Oscura e sviluppo di tecnologie per superfici riflettenti per gli esperimenti MAGIC e CTA” “(*Indirect dark matter searches and technological development of reflective surface for MAGIC and CTA experiments*)” at Department of Physics, University of Padova, Italy. Duration 6 months.
- 2007/01–2009/12 **Fellowship** “Commissioning del secondo telescopio MAGIC e analisi dei primi dati scientifici con il sistema stereoscopico” “(*Commissioning of the second MAGIC telescope and first scientific data analysis with the stereoscopic system*)” at University of Padova, Department of Physics. Duration 2 years.

EDUCATION AND TRAINING

2005/01–2009/04 **Phd in Physics** at University of Padova with the thesis *Novel reflective elements and dark matter searches for MAGIC and future IACTs.*. Thesis discussed April, 8th, 2009 with tribunal note: “excellent”.



1997/10–2004/07 **Master degree** in Physics at University of Padova with the thesis "*Commissioning and characterization of the calibration system of the MAGIC telescope*". The thesis work was performed at Institut de Física d'Altes Energies, Barcelona (Spain) and discussed in Padova (Italy).

QUALIFICATIONS

Participation in Experiments

- 2018–today Member of the **Trinity** collaboration. A project for an Air-Shower Imaging Instrument for detection of Ultra high Energy Neutrinos <http://trinity.physics.gatech.edu/>
- 2016–today Member of the **Southern Wide-Field Gamma-ray Observatory (SWGGO)** consortium www.swggo.org. The project build from the merge of earlier projects **SGSO** and **LATTES**.
 - 2016 Proposer of an MeV-GeV satellite borne gamma-ray instrument dubbed **e-Astrogam**: *Exper.Astron.* 44 (2017)
- 2006–today Full member of the **Cherenkov Telescope Array (CTA)** consortium www.cta-observatory.org.
- 2004–today Full member of the **Major Atmospheric Gamma-ray Imaging Cherenkov (MAGIC)** telescope collaboration www.magic.mpp.mpg.de.

Participation in Scientific Societies

- 2017-2018 President of the Executive Board of the **Sperimentando exhibit**
- 2016-2020 Member of **Italian Physics Society (SIF)**

Manager of Funds

- 2018-2021 **Principal Investigator** of the Project 'Multi-messenger astrophysics' funded by UNIPD-DFA. Total funds: 153,000 euros
 - 2018 **MIUR Grant** for 'Annual Individual Research Activities' (Italian Law 11-12-2016/232/1/295-302 from the Ministry of University and Research. Total Grant: 3,000 euros
 - 2017 **Principal Investigator** of the Project 'Guide di Luce ad Accettazione Controllata per FOTOSENSORI AL SILICIO' funded by UNIPD-DFA. Total funds: 8,000 euros
- Principal Investigator** of the MAGIC experiment for the INFN section of Padova. Total funds: 28,500 euros
- 2013-2015 **Funds for research** Responsible for 25,000 euros grant for research associated with the Senior Post-doc at the University of Padova, for the construction of the optical read-out system of a Raman LIDAR and associated expenses.
 - 2011 **Bilateral cooperation Italy-Spain** PI of project funded with 2,000 euros for Spanish-Italian cooperation on mirror coordination activities for CTA.
 - 2010 **Start-up research** Winner of a grant of 2,000 euros (gross) from University of Padova to start a Research Activity in Foreign Institutions.

Managing Roles

- 2019–today Member of the Department of Physics and Astronomy Council. Delegates for **Seminar Cycles** and **Internationalization**.
- 2019–today Member of the **PhD School** at in 'Space Science Technology and Measures' of the 'Centro di Ateneo di Studi e Attività Spaziali "Giuseppe Colombo" - CISAS'
- 2019–2021 Member of the steering group of SWGGO in the role of **Site Selection Convener**
- 2018-2019 Member of the Physics PhD School Committee for the Department of Physics and Astronomy
- 2017-2018 President of the Executive Committee of the national Sperimentando Italian National exhibit www.sperimentando.it.
- 2016-2019 Member of the **Executive Board and the Collaboration Board** in the role of **Publication Manager** of the MAGIC experiment

- 2015-2019 Member of the CTA Large Size Telescope (LST) **Executive Board**, in the role of **responsible for the Interface Between LST and the COM** (Common Components and Test Facilities) working group of CTA.
- 2014-2016 Member of the **MAGIC Executive Board and the MAGIC Collaboration Board** in the role of **Coordinator of the MAGIC Operation, Data Quality Control and Safety**, i.e. responsible for the safety of shifters and instrumentation at the site, coordinator of shift activities, responsible for the correct datataking and coordinator of the data quality working group.
- 2014–2015 Convener of the **Atmospheric Calibration Work Package** of the CTA consortium Central Calibration Facility work-package.
- 2011–2012 Local Quality Manager (LQM) for the Mirror Working Package for the CTA collaboration.
- 2011–2014 Convener of the **Dark Matter and Fundamental Physics Working Group** of the CTA consortium Physic work-package.
- 2010–2014 Convener of the MAGIC working group on **Astroparticle and Fundamental Physics**
- 2010–2013 Co-responsible for the construction of a Raman LIDAR instrument in Barcelona for atmospheric calibration together with [REDACTED] (Barcelona, Spain).
- 2008–2012 Co-coordinator of **CTA Mirror Working Group**
- 2006–2009 Responsible for the construction and installation of the mirrors of the MAGIC II telescope.

Prizes

- 2009 **MAGIC prize** Awarded by the MAGIC Collaboration for “*Fundamental contribution for the construction of MAGIC II telescope.*”

Qualifications

- 2014 **Qualification as Assistant professor “02/A1 II fascia” (Italy)** Qualification as Assistant Professor valid from 2014.01.23 to 2020.01.23
- 2011 **Qualification as Assistant Professor (Catalunya)** Certificate of teacher training as “lector” (lecturer) for the Generalitat de Catalunya valid for Spanish Universities.

TUTORING / THESES DIRECTORSHIP

- 2020–today **Phd Advisor** for the PhD thesis *Experimental Searches for Axion Like Particle* of PhD candidate [REDACTED]
- 2021 **Tribunal member** for the PhD thesis *Indirect Search for WIMP Dark Matter with the MAGIC Telescopes*, [REDACTED], Universitat Autònoma de Barcelona
- 2018 **Tribunal member** for the PhD thesis *Energy dependent time delays in blazar light curves : a first look at the modeling of source-intrinsic effect in the MeV-TeV range and constraints on Lorentz Invariance Violation with H.E.S.S.*, [REDACTED], Sorbonne University
- Tribunal member** for the PhD thesis *Study of cosmic-ray light nuclei on the ISS: identification of the interaction point in the CALorimetric Electron Telescope*, of [REDACTED], University of Siena, 2018
- Advisor for Degree Thesis** of [REDACTED] for the thesis *Toward a population study of BL Lac objects observed with the MAGIC gamma-ray telescopes*, Padova July
- 2017 **Advisor for apprenticeship** for [REDACTED] on analysis of long-term data from the MAGIC telescopes’ weather station for climatology of the MAGIC site
- 2016 **Tribunal member** for the PhD thesis *On the connection between radio and gamma-ray emission in Active Galactic Nuclei*, of [REDACTED], University of Udine, 2016
- Advisor for apprenticeship** for the student [REDACTED] on Fermi-LAT analysis of dwarf spheroidal galaxies and Cloud computing system at INFN Padova
- 2015 **Advisor for Degree Thesis** of [REDACTED] *Dark Matter searches at Galactic Center with MAGIC data.* University of Padova, 2015.

- Advisor for the Degree Thesis** of ██████████ *Constraining dark matter lifetime with the Perseus galaxy cluster* on the observation of the Perseus Galaxy Cluster with MAGIC and the interpretation in terms of decaying dark matter, University of Padova, 2015
- 2014 **Advisor for Bachelor Thesis** of ██████████ *Study of the response of oscillometers on the MAGIC telescopes structure* on the commissioning of oscillometers at the MAGIC telescopes and data interpretation. The work is in collaboration with the Max-Planck Institute in Munich (Germany).
- 2013 **Tribunal member** for the PhD thesis *Optimized Dark Matter Searches in Deep Observations of Segue 1 with MAGIC*, of ██████████, Universitat Autònoma Barcelona, 2014
- Advisor for the Diploma Thesis** of ██████████ *"Calcolo del fattore astrofisico con codice Clumpy per la ricerca di materia oscura"*, Università di Padova, 2013. The thesis dealt with the calculation of astrophysical factor for all known dwarf satellite galaxies with the use of the public Clumpy code.
- 2012 **Tribunal member** for the PhD thesis *High Energy Phenomena in Clusters of Galaxies*, of ██████████, Instituto Astrofísica Granada, 2012.
- 2011 **Advisor for the Master Thesis** of ██████████ *"IFAE-UAB Raman LIDAR Link Budget and Components"* Universitat Politècnica de Barcelona, 2011. The thesis dealt with the simulation of the IFAE-UAB Raman lidar through the Link-Budget problem and simulation of the optical layout of the photon detector system of the lidar through the Zemax simulation program.
- Advisor for the Master Thesis** of ██████████ *"La matèria fosca" (The dark matter - thesis in Catalan)*, Universitat Autònoma de Barcelona, 2011. The work dealt with simulation of simple dark matter models with the DarkSusy program and discussion of the results.
- Advisor of the Master Thesis** of ██████████ *"The effect of molecular and aerosol atmospheric profiles on the performance of the MAGIC telescopes"* Universitat Autònoma Barcelona, 2011. The thesis deals with the study of the effect of different aerosol profiles in the data reconstruction and analysis of MAGIC-stereo.
- Advisor of the Phd Thesis** by ██████████ *"Development of analysis tools for the MAGIC Telescopes and observation of the Segue 1 Satellite Galaxy with the MAGIC-I Telescope."*, University of Padova, 2011. Lombardi is now responsible for the reconstruction software design of the array of Small Size Telescopes for CTA at INAF.
- 2010 **Co-advisor of the Diploma Thesis** work of ██████████ *"Ricerche di Materia Oscura con il telescopio MAGIC"*, Università di Padova, 2010. The thesis dealt with the comparison of public codes for RGE regression.
- 2007 **Advisor of the Diploma Thesis** work of Fabio Zandanel *"Dark Matter Search with the MAGIC Telescope: Analysis of the Unidentified EGRET Source 3EG J1835+5918"* University of Padova, June 2007. ██████████ is now postdoc at GRAPPA institute in Amsterdam winner of a prestigious Netherlands grant.
- 2006 **Advisor of the Diploma Thesis** work of ██████████ *"Studio sistematico del fondo e del segnale nei dati dell'esperimento MAGIC con applicazione all'analisi della sorgente CRAB"* (Systematic Study of signal and background data for the MAGIC telescope and its application to the Crab Nebula) University of Padova, July 2006

TEACHING

- A collection of some of the lectures can be found at unipd.academia.edu/MicheleDoro
- 2021– **Lecturer** the course "Physics" for the Degree in Industrial Chemistry). University of Padova - Department of Chemistry. 50h /6CFU.
- 2020-today **Lecturer** of the course "Atmospheric Remote Sensing" for the Phd School CISAS in Space Science and Technology. Topics: atmosphere basics and remote sensing.
- 2018-today **Lecturer** of the course "Physics Experimentation 1" for the Degree in Physics, University of Padova: 64h /8CFU. Topics: statistics, laboratory.
- 2015-2021 **Lecturer** the course "Physics AG09103039" for the Degree AG0056 Scienze e Tecnologie Agraria (Agricultural Science and Technologies). University of Padova - Department of Agriculture and Veterinary Medicine. 64h /8CFU. Course held on 2015-2021

- 2015 **Assistant Lecturer.** Contract by Department of Physics G. Galilei, Padova, for 20 h in the graduate course of Physics held by [REDACTED]. as Support Teacher
- 2014 **Assistant Lecturer** Contract by Department of Physics G. Galilei, Padova, for 20 h in the graduate course of Physics held by [REDACTED]. as Support Teacher
- 2013 **Assistant Lecturer** Contract by Department of Physics G. Galilei, Padova, for 20 h in the graduate course of Physics held by [REDACTED]. as Support Teacher
- Assistant Lecturer** for 6 h in the Ph.D. course on Astrophysics held by [REDACTED]. Lectures on cosmic rays and fundamental physics with gamma-rays. Held on a voluntary basis
- Assistant Lecturer** for 10 h in the Master thesis course on Astrophysics held by [REDACTED]. Lectures on cosmic rays and fundamental physics with gamma-rays. Held on a voluntary basis.
- 2006-07 **Assistant lecturer** for the 3 courses laboratories. Contract with Department of Physics G. Galilei, Padova. Frontal lectures with students, setup of simple laboratory experiments and corrections of works: *A*) (2006) (12 hours) Laboratories of Mechanics *B*) (2007) (24 hours) Laboratories of Electronics

CONFERENCES AND WORKSHOPS ORGANIZATION

- 2020 Organizer, SOC and LOC of the 1st International School on Physics of the Universe, 14-23 January 2020, Padova/Asiago <https://agenda.infn.it/event/17979>
- 2019 Organizer and LOC of the 1st SWGO international Meeting, Padova, 30-31 October 2019. <https://agenda.infn.it/event/19606/>
- 2018 Member of the Scientific Organizing Committee for the session E1.14 on the Cherenkov Telescope Array at the “**COSPAR** symposium, Pasadena, US 11-22 July 2018 <http://cospar2018.org>
- 2017 Scientific Secretary for the session on Astroparticle Physics at the “**European Physics Society Conference on High Energy Physics** Venice, Italy 5-12 July 2017 <http://eps-hep2017.eu>
- 2015 Session convener of the session on indirect Dark Matter searches at the “**TeV Particle Astrophysics (TeVPA)**” conference, 26-30 October 2015 Kashiwa (Japan) www.icrr.u-tokyo.ac.jp/indico/conferenceDisplay.py?confId=23
- Session convener of the **XIV International Conference on Topics in Astroparticle and Underground Physics (TAUP)**, 7-11 September 2015 — Torino — Italy taup2015.to.infn.it
- Session convener at the Summer School "Towards the Cherenkov Telescope Array and Future Gamma-ray Experiments" for the session Basics of VHE data reconstruction 27.07.2015 - 31.07.2015, Sesto (Italia)
- 2014 Organizer and LOC of the CTA Large Size Telescope (LST) meeting, Padova, 7-10 July 2014. www.cta-observatory.org/indico/conferenceDisplay.py?confId=629
- Session convener of the **10th edition of the Science with the new generation of gamma-ray experiments**, 10th international workshop, Lisbon, 4-6 June 2014. <http://www.lip.pt/events/2014/scineghe/>
- Session convener of the session on indirect Dark Matter searches at the “**Astroparticle Physics conference that brings together the Identification of Dark Matter (IDM) and TeV Particle Astrophysics (TeVPA)**”. Amsterdam, June 23 to 28, 2014
- Organizer and LOC of the 4th MAGIC Software School in Padova (Italy) 24-28 February 2014. Funded with 2,000 euros. <https://agenda.infn.it/conferenceDisplay.py?confId=6882>
- Organizer and LOC of the **2nd AtmoHEAD conference (Atmospheric Monitoring for High-Energy Astroparticle Detectors)**, 19-21 May 2014, Padova (Italy). Funded with 7,500 euros. <https://agenda.infn.it/conferenceDisplay.py?confId=6911>
- 2011 Session convener of the ASPERA Technological Forum "Mirrors and Lasers in Astroparticle Physics Infrastructures", 20-21 October, 2011 EGO/Virgo Site (Cascina), Pisa, Italy. <http://www.et-gw.eu/events/asperatf>

- 2010 Ideation, organization and scientific committee of the workshop "**Multi-cube: A multi-wavelength, multi-messenger, multi-experiment approach to dark matter searches**", held in Padova, Italy, March 1-5, 2010. www.pd.infn.it/~mdoro/Multi-cube

VISTING SCIENTIST HOST

- 2019 [REDACTED] (Centro Pesquisas Fisicas de Brasil (CPFB), 3-month stay. Grant fund 4,000 euro.
- 2018 [REDACTED] (Institute for Cosmic Ray Research - Tokyo University, Japan), 1-month stay. Grant fund 3,500 euro.
- 2016 [REDACTED] (Institut de Fisica d'Altes Energies, Barcelona, Spain), 1-month stay. Grant fund 3,500 euro.

REVIEWER ACTIVITIES

- 2021-today Evaluator for the programme UNA4CAREER, Spain.
- 2017-today Evaluator for the **Register of Expert Peer Reviewers for Italian Scientific Evaluation (REPRISE)** of the Ministry of Science and Education for the ERC sectors: High energy and particles astronomy: X-rays, cosmic rays, gamma rays, neutrinos (PE9_10), Dark matter, dark energy (PE9_12), Instrumentation: telescopes, detectors and techniques (PE9_17)
- 2018-today Reviewer for the MDPI journal **Galaxies**
- 2020-today Publication Board member of MAGIC
- 2020 Reviewer for the **Journal of Instrumentation (JINST)**
- 2016-2019 Publication Manager of MAGIC
- 2014-2016 Member of the MAGIC Publication Board
- 2015 Reviewer for **Journal of Physics G: Nuclear and Particle Physics**
- 2014 Reviewer for **Astronomy and Astrophysics** Journal (A&A)
Reviewer for **Monthly Notices of the Royal Astronomical Society** (MNRAS)
Reviewer for the **Slovenian Research Agency**
- 2011 Reviewer for the **Smart Materials and Structures** journal

OUTREACH

- Some outreach slides are distributed in unipd.academia.edu/MicheleDoro
- 2018 Main organizers and president of the Executive Committee of the Sperimentando national exhibit. The exhibit features experiments of Biology, Chemistry and Physics for high-school students and a wider audience for 1 month a year in Padova.
- 2017 Outreach seminar on the history of Galileo, and his relationship with Venice and Science at the event "Piraghetto sotto le Stelle" Venice, July.
- 2016-17 Main speaker of the Padova workshop for high-school students for the International Cosmic Day with lectures on cosmic-rays and measurements of cosmic ray rates with real instruments. Interviewed by National Television program TG Leonardo.
- 2016 Host of an high-school student within the ministerial program "Exchange School-Work" for the realization of a webpage.
Colloquium "A Brief History of the Universe" for the Agorá cultural association, Castelgomberto (Italy)
- 2014 Colloquium "The Cosmic Accelerators" for the 2014 International MasterClass for High-Schools, Padova, Italy.
- 2011 Seminar about Dark Matter searches with MAGIC at Liceo Stefanini, Venezia, Italy.
- 2010 Interviewed by Radio Bue, an internet-based television and radio station.
- 2009 Interviewed by Formica Blu, an internet-based radio transmission.

Organizer of a section about the MAGIC telescope in the international exhibition “Il futuro di Galileo (The future of Galileo)” held in Padova (Italy) Feb-Jun 2009, (<http://www.ilfuturodigalileo.it/>) and guide to the exhibition itself.

Scientific guide for the experimental exhibition “Sperimentando (Experimenting)” in Padova, Italy.

PUBLICATIONS ON
REFEREED JOURNALS
AS MAIN AUTHOR

All publications can be accessed with the QR code in the front page or at the link: <https://ui.adsabs.harvard.edu/public-libraries/LogJ89vfQCWambDpx41YpQ>.

- 2021 G. D'Amico, **M. Doro** and others "Signal estimation in On/Off measurements including event-by-event variables" Phys. Rev. D 103, 123001
- I. Batkovic, **M. Doro** and others "Axion-like particles searches with IACTs" Accepted in Universe journal
- R. Lopez Coto, **M. Doro**, and others "Prospects for the Observation of Primordial Black Hole evaporation with the Southern Wide Field of View Gamma-ray Observatory" submitted to JCAP
- J. Coronado, **M. Doro** and others "Sensitivity of the Cherenkov Telescope Array to dark subhalos" Physics of the Dark Universe 32 (2021) 100845
- 2020 **M. Doro (corresponding author)** "A search for dark matter in Triangulum II with the MAGIC telescopes" Phys. Dark Univ. 28 (2020) 100529 DOI: 10.1016/j.dark.2020.100529
- 2018 **M. Doro (corresponding author)** [MAGIC Coll.], "Constraining dark matter lifetime with a deep gamma-ray survey of the Perseus galaxy cluster with MAGIC", Physics of Dark Universe 22 (2018) 38-47 DOI: 10.1016/j.dark.2018.08.002
- M. Gaug, **M. Doro**, *Impact of Laser Guide Star facilities on neighbouring telescopes: The case of GTC, TMT, VLT and ELT lasers and the Cherenkov Telescope Array*, MNRAS Accepted
- Assis, P., U. Barres de Almeida, A. Blanco, R. Conceicao, B. D'Ettore Piazzoli, A. De Angelis, **M. Doro**, P. Fonte, L. Lopes, G. Matthiae, M. Pimenta, R. Shellard, and B. Tome (2018) *Design and expected performance of a novel hybrid detector for very-high-energy gamma-ray astrophysics*. Astroparticle Physics 99, p.34-42, doi:10.1016/j.astropartphys.2018.02.004
- 2017 **M. Doro** *Gamma-ray, Particle and Exotic Physics at TeV energies with the MAGIC telescopes* Nuovo Cim. C40 (2017) no.3, 115. DOI:10.1393/ncc/i2017-17115-5
- Arcaro, C., D. Corti, A. De Angelis, **M. Doro**, C. Manea, M. Mariotti, R. Rando, I. Reichardt, and D. Tescaro (2017) *Studies on a silicon-photomultiplier-based camera for Imaging Atmospheric Cherenkov Telescopes*. Nuclear Instruments and Methods in Physics Research A 876, p.26-30, doi:10.1016/j.nima.2016.12.055
- 2015 **M. Doro** *Indirect search for dark matter with Cherenkov telescopes*. Nuovo Cim. C38 (2015) no.1, 40. DOI:10.1393/ncc/i2015-15040-3
- 2014 **M. Doro** *A Decade of Dark Matter Searches with Ground Based Cherenkov Telescopes*. Nucl.Instrum.Meth. A742 (2014) 99-106. DOI: 10.1016/j.nima.2013.12.010, EID: 2-s2.0-84898004060
- 2013 **M. Doro** et al. for the CTA consortium, "Dark Matter and Fundamental Physics with the Cherenkov Telescope Array", Astropart.Phys. 43 (2013) 189-214. DOI: 10.1016/j.astropartphys.2012.08.002, EID: 2-s2.0-84886088686
- 2012 **M. Doro** for the MAGIC collaboration, "Reaching the lowest energy threshold of ground-based Cherenkov telescopes with MAGIC–stereo: a goal achieved", Procs. of the 3rd RICAP conference 2011, Nuclear Instruments and Methods in Physics Research Section A. Nucl.Instrum.Meth. A692 (2012) 201-207. DOI: 10.1016/j.nima.2011.12.115, EID: 2-s2.0-8486633665
- 2011 **M. Doro (corresponding author)** J. Aleksić [MAGIC Coll.], "Searches for Dark Matter Annihilation Signature in the Segue 1 satellite galaxy with the MAGIC-I telescope", Journal of Cosmology and Astroparticle Physics 06 (2011) 035. DOI: 10.1088/1475-7516/2011/06/035, EID: 2-s2.0-79960038355
- M. Doro** for the CTA consortium, "CTA - A Project for a New Generation of Cherenkov Telescopes", Nuclear Inst. and Methods in Physics Research, A 630 (2011), pp. 285-290. DOI: 10.1016/j.nima.2010.06.085, EID: 2-s2.0-79951725648

- 2009 **M. Doro (corresponding author)** E. Aliu et al. [MAGIC Coll.], "Upper Limits on the VHE Gamma-Ray Emission from the Willman 1 Satellite Galaxy with the Magic Telescope", *The Astrophysical Journal*, Volume 697, Issue 2, pp. 1299-1304 (2009). DOI: 10.1088/0004-637X/697/2/1299, EID: 2-s2.0-66649103391
- T. Bringmann, **M. Doro** and M. Fornasa, "Dark matter signals from Draco and Willman 1: prospects for MAGIC II and CTA", *Journal of Cosmology and Astroparticle Physics*, Issue 01, pp. 016 (2009). DOI: 10.1088/1475-7516/2009/01/016, EID: 2-s2.0-62649096169
- 2008 **M. Doro** et al. "The reflective surface of the MAGIC telescope", *Nuclear Instruments and Methods in Physics Research Section A*, Volume 595, Issue 1, p. 200-203. DOI: 10.1016/j.nima.2008.07.073, EID: 2-s2.0-51649103965

Publications statistics

Statistics obtained from: <http://inspirehep.net/author/profile/Michele.Doro.1> as of April 28th, 2021.

	Citeable papers	Published only
Number of papers analyzed:	204	150
Number of citations:	13342	12712
Citations per paper (average):	63	62
h-index	65.4	84.7

TALKS AT INTERNATIONAL VENUES

- 2021 "Trinity: A compact Air-Shower Imaging Telescope to detect UHE neutrinos", XIX International Workshop on Neutrino Telescopes <https://agenda.infn.it/event/24250/>
- 2019 "The MAGIC TeVinstrument for dark matter searches in the dawn of CTA era", Matera Oscura, Matera 2-6 September 2019 <https://sites.google.com/inaf.it/astromatera2019/home>
- 2018 **[Invited]** "Pimping the Highest Energy", Lecture at Haereus School, Padova, 2-7 September 2018 <http://eventos.uam.es/16257/detail/halo-substructure-and-dark-matter-searches.html>
- [Invited]** "On the verge of a new generation of TeV dark matter search", TeVPA, Berlin, 27-31 August 2018 <http://eventos.uam.es/16257/detail/halo-substructure-and-dark-matter-searches.html>
- [Invited]** "Search of dark matter in dwarf galaxies with ground-based Cherenkov Telescopes", Halo substructure and dark matter searches" workshop, Madrid, June 27-29, 2018 <http://eventos.uam.es/16257/detail/halo-substructure-and-dark-matter-searches.html>
- [Invited]** "MAGIC Highlights", 11th Cosmic Ray International Seminar (CRIS) 2018 <https://agenda.infn.it/conferenceDisplay.py?confId=14929>
- [Contributed] "Perseus – a Huge reservoir of dark matter investigated with MAGIC", IAU General Assembly, Noto, June 2018 <http://www.ira.inaf.it/iaus342/>
- 2017 **[Invited]** "Expectations from the gamma-ray sky in the next Decade", Barolo astroparticle meeting, Barolo 2017
- 2016 **[Invited]** "Highlight of MAGIC and CTA" and "Highlights of LATTES experiment", Workshop on high altitude Particle Detectors, Torino, 2016
- [Invited]** "Highlight of MAGIC", Science with the New Generation High Energy Experiments, Pisa, 2016
- "Dark Matter Seaches with MAGIC", European Cosmic Ray Conference, Torino
- [Invited]** Lecturer at Astromundus gathering on "Introduction to gamma-ray astronomy techniques and science". Asiago, 2016.07.01
- [Invited]** "Exotic needles in the Cherenkov telescope Haystak" RICAP conference, Rome, 2016.06

- 2015 **[Invited]** Lecturer at Summer School "Towards the Cherenkov Telescope Array and Future Gamma-ray Experiments" with two lectures on "Basics of VHE data reconstruction" and "Dark matter and fundamental physics with the Cherenkov Telescope Array". 27.07.2015 - 31.07.2015, Sesto (Italia)
[Invited] "Gamma-ray astronomy with Cherenkov telescopes with a focus on dark matter searches", PhD School of Nova Goriza University (Slovenia), 2015.04.23
- 2014 **[Invited]** "Searches for Dark Matter with TeV gamma rays", Strategy Workshop on Astroparticle in Switserzland (SWAPS), June 11-13, 2014.
[Invited] "Indirect searches for Dark Matter with future ground-based gamma-ray experiments", Latest Results in Dark Matter Searches workshop, Stockholm (Sweden) May 10-12, 2014
[Invited] "Indirect Search for Dark Matter with Cherenkov Telescopes", IFAE Conference, L'aquila (Italy) 2014
- 2013 **[Invited]** "Dark Matter searches with Cherenkov Telescopes", RICAP Conference, Rome (Italy) 2013
 [Contributed Talk] "Toward a new generation of Cherenkov telescopes with CTA", INFN IFAE Conference, Ferrara (Italy) 2013
- 2012 **[Invited]** "Dark Matter searches with MAGIC", SnowDOG workshop, Snowbird, Utah (USA)
[Invited] "Dark Matter and Fundamental Physics searches with CTA", SnowDOG workshop, Snowbird, Utah (USA)
 [Contributed] MAGIC highlight talk: "From MAGIC to MAGIC-stereo, filling the gap with high energy satellite experiments", 3rd Roma International Conference on Astro-Particle Physics - RICAP 11 - May 25-27, 2011.
- 2010 **[Invited]** "An exotic tour with CTA", First LINK Workshop: Probing physics beyond the Standard Model with CTA, Oxford, 11-12/11/2010.
- 2009 [Contributed talk] "CTA - A project for a new generation of Cherenkov telescopes", 2nd Roma International Conference on Astro-Particle Physics - RICAP 09 - May 13-15, 2009.
 [Poster] "Mirror Facet Technologies for the Telescopes of the CTA Observatory", 31st International Cosmic Ray Conference (ICRC 2009), Lodz, Poland, July 2009.
- 2007 [Contributed talk] "The Reflective Surface of the MAGIC Telescope" 6th International Workshop on Ring Imaging Cherenkov Counters (RICH2007) Stazione Marittina, Trieste, Italy, 15-20 October 2007
 [Contributed talk] "Technical solutions for the MAGIC Telescope", 10th ICATPP Conference on Astroparticle, Particle, Space Physics, Detectors and Medical Physics Applications, Villa Olmo, Como, 8-12 October 2007.
 [Contributed talk] "Indirect Dark Matter Searches with the MAGIC Telescope" 5th Workshop on Science With The New Generation of High Energy Experiment (Scineghe 2007), Villa Mondragone, Frascati (Rome) Italy, June 18-20, 2007.
 [Poster] M. Doro et al. "Indirect Dark Matter Search at Intermediate Mass Black Holes with the MAGIC Telescope", Proceedings of the 30th International Cosmic Ray Conference. July 3 - 11, 2007, Merida, Yucatan, Mexico. Volume 4, p.721-724
- 2006 [Contributed talk] "Dark Matter Searches with the MAGIC Telescope", International Dark Matter Conference, Rhodes, Greece, 2006
 [Contributed talk] "Ricerca Indiretta di Materia Oscura con il Telescopio MAGIC", Società Italiana di Fisica (SIF), Torino, Italia, 2006

PARTICIPATION IN BOOKS

- 2021 "30 years of gamma-ray astronomy since the Crab Nebula discovery", main editor: U. Barres de Almeida, M. Doro. Special issue of the journal Galaxies. Publisher: MDPI. In preparation
- 2020 "Halo substructure and dark matter searches", main editor: M. Doro, M. A. Sanchez-Conde. Special issue of the journal Galaxies (ISSN 2075-4434) Publisher: MDPI.
- 2018 M. Doro, M. A. Sanchez-Conde "Fundamental Physics", in "Advances in Very High Energy Astrophysics" editor R. Mukherjee, R. Zanin. Published in World Scientific. In preparation.
- 2012 M. Doro "A glance at the future with the Cherenkov Telescope Array observatory", in 2nd Aspera Technology Forum Report, March 2012

2009 M.Doro "MAGIC: The World Largest Cherenkov Telescopes Exploring the nonthermal gamma-ray emission of the universe". In "Lightweight Alt-Az Telescope Developments". Edited by R.M. Genet, J.M. Johnson and V. Wallen. Published by the Collins Foundation Press, California, USA.

Description of the MAGIC telescope and its mirrors in the collection "Il futuro di Galileo. Scienza e Tecnica dal Seicento al terzo Millennio.", from the homonymous exhibit held in Padova, Centro Culturale Altinate, 28/02-14/06 2009.

PERSONAL SKILLS AND COMPETENCES

Mother Tongue **Italian**

Other languages

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	Very Good	Very good	Very Good	Good	Good
Spanish	Very good	Very good	Very good	Very Good	Good
Catalan	Good	Good	Basic	Basic	Basic
French	Good	Basic	Basic	Basic	Scarse

Social Skills

Particular attitude to work in groups.

Organisational skills

Particular attitude in co-ordination of activities.

Computer Skills

I worked on Windows, Linux and Mac operating system. I normally program in c++, python and Root.I had experience in analyzing MAGIC and CTA telescope data for dark matter searches, in Monte Carlo production, and in general code treatment for analysis purposes. I also programmed software for raytracing simulations for the telescope optics.

