# David Cerdeño

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## Contact

**Address**
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## Research Fields

**Astroparticle Physics and Cosmology**
Theory and Phenomenology or Dark Matter and neutrinos.

**Direct Dark Matter detection**
Member of the SuperCDMS Collaboration and the TVLBAI consortium.

## Positions Held

| | | |
|---|---|---|
| 2020 | **Investigador Científico** | IFT UAM/CSIC |
| 2020 | **Profesor Titular de Universidad (en excedencia)** | Universidad Autónoma de Madrid |
| 2020-2024 | **Beatriz Galindo Senior Professor** | IFT, Universidad Autónoma de Madrid |
| 2017-2020 | **Associate Professor (Reader)** | IPPP, Durham University |
| 2014-2017 | **Assistant Professor (Lecturer)** | IPPP, Durham University |
| 2009-2014 | **Ramón y Cajal Fellow (Tenure track)** | IFT, Universidad Autónoma de Madrid |
| 2006-2009 | **Juan de la Cierva Fellow** | IFT, Universidad Autónoma de Madrid |
| 2004-2006 | **Research Associate** | IPPP, Durham University |
| 2003-2004 | **Postdoctoral Researcher** | Hamburg Universität |
| 2002-2003 | **Postdoctoral Researcher** | Martin-Luther Universität Halle-Wittenberg |

## Qualifications

2016 **Fellow of the Higher Education Academy** — Higher Education Academy

2013 **Spanish I3 Certificate** — Spanish Ministry of Science

2012 **Acreditación a Profesor Titular** — ANECA
Awarded by the National Agency for Quality Assessment and Accreditation of Spain.

2002 **Ph.D. in Physics** — Universidad Autónoma de Madrid
"Phenomenological analyses in supersymmetric scenarios, superstrings and M-theory". Supervisor: Prof. Carlos Muñoz (25 July 2002).

2000 **M.Sc. in Physics** — Universidad Autónoma de Madrid
"Phenomenology of non-standard embedding and five-branes in M-theory". Supervisor: Prof. Carlos Muñoz.

1998 **Degree in Physics** — Universidad Autónoma de Madrid

# Administration and Community Service

2025-now **Member of the Executive committee of CPAN** CPAN
Representative of the area of Astroparticle Physics.

2021-now **Diversity and Equality Committee** IFT, Universidad Autónoma de Madrid

2021-now **Outreach Committee** IFT, Universidad Autónoma de Madrid
I have taken part and organised outreach events, with particular interest in the connection between arts and science.

2022-2024 **Coordinator of the MSc on Theoretical Physics.** Universidad Autónoma de Madrid

2022-2024 **Member of the "Comisión de Garantía de Calidad"** Universidad Autónoma de Madrid
This Commission at the Sciences Faculty of UAM monitors the quality of the teaching programmes and reports back to the funding agencies. I have been representing and reporting on the MSc on Theoretical Physics.

2018-2020 **Course Director for the MSc programme ``Particles, Strings and Cosmology''** Durham University
I coordinate the MSc programme “Particles, Strings and Cosmology” at Durham University and I am the director of the MSc Board of Examiners.

2015-2016 **Science Group Coordinator** SuperCDMS Collaboration
I took an active part in the writing of the application to the DOE and NSF of the SuperCDMS SNOLAB project. The proposal to build an advanced dark matter experiment at the SNOLAB site was approved.

2016-2020 **Diversity and Equality Committee** Durham University
I have been secretary of the Diversity and Equality Committee. As such, I contributed to the (successful) ATHENA Swan Silver application.

# Teaching

## Postgraduate Courses

2013-2024 **Astroparticle Physics** Universidad Autónoma de Madrid
Lecturer and course coordinator. 12 courses, 20 hours each

2014-2020 **Astroparticle Physics** Durham University
6 courses, 10 hours each

2018 **Producing and Detecting Dark Matter** University of Valencia
Block Course by invitation, June 2018 (8 hours)

2009-2012 **Beyond the Standard Model** Universidad Autónoma de Madrid
Lecturer and course coordinator. 3 courses, 10 hours each

2009 **Dark matter and its direct detection** Max-Planck-Institut für Physik, München
Block Course by invitation at the Max-Planck-Institut für Physik (Werner-Heisenberg-Institut) Mn̈chen, Germany, 6-9 April, 2009. (8 hours).

## Undergraduate Courses

2021-2022 **Computation II** Universidad Autónoma de Madrid
2 courses 54 hours

2018-2020 **Mathematics Workshop: Infinite Vector Spaces (PHYS3591)** Durham University
2 courses 18 hours

2014-2020 **Mathematics Workshop: Integral Transforms (PHYS3591)** Durham University
6 courses, 18 hours each

2018-2019 **Physics Problem Solving: General Problems (PHYS3561)** Durham University
9 hours

2014-2016 **Physics Problem Solving: Computing Projects (PHYS3561)** Durham University
2 courses, 16 hours each

2007-2014 **Mathematical Methods in Physics II** Universidad Autónoma de Madrid
Lecturer and course coordinator. 7 courses, 60 hours each

2012-2014 **Experimental detection of dark matter: the SuperCDMS experiment** Universidad Autónoma de Madrid
Lecturer and course coordinator. 2 courses, 60 hours each

2004-2006 **Level 1 General Physics** Durham University
Tutor. 2 courses, 38 hours each

## Physics Schools

2022 **Winter School of Astrophysics** Universidad de la Laguna
Delivered a 2-hour course on "Introduction to Cosmology and Astrohysics", a 1h public talk at the Science and Cosmos Museum (Tenerife) and designed a 2h session on "Art and Science".

2021 **INFIERI** Universidad Autónoma de Madrid
Designed a 3-hour workshop on "Dark Matter" and trained a group of seven demonstrators to impart it.

2014, 15, 17, 18, 19, 21 **Taller de Altas Energías (TAE)** Centro de Física Pedro Pascual, Benasque
Lecturer for the course "Dark Matter" (5 courses, 5 hours each) and tutor.

2019 **1st International School on Particle Physics and Cosmology** Universidad Internacional Menéndez Pelayo
Lecturer of the course "Dark Matter"(1 hour).

2016 **Higgs Centre School of Theoretical Physics 2016** Edinburgh University
Lecturer of the course "Dark Matter 101: from production to detection" (17 hours) at the Higgs Centre for Theoretical Physics.

2015, 16, 17 **HEP Summer School** Lancaster University
Lecturer for the course "Astroparticle Physics: Dark Matter and Neutrinos" (3 courses, 5 hours each) and tutor.

2008 **Taller de Altas Energías (TAE)** Universidad Autónoma de Madrid
Tutor.

2005, 2006 **BUSSTEPP**
Tutor at the $35^{th}$ and $36^{th}$ "British Universities Summer School in Theoretical Elementary Particle Physics" (BUSSTEPP 2005 in Ambleside and 2006 in Edinburgh).

# Student Supervision

## PhD

Students marked with an asterisk (*) continued in academia with a postdoctoral position after their PhD

| | | |
|---|---|---|
| Ongoing | **Rafael López Noé** | Universidad Autónoma de Madrid |
| Ongoing | **Karen Macías Cárdenas** | Universidad Autónoma de Madrid |
| Ongoing | **David Alonso González** | Universidad Autónoma de Madrid |
| 2022 | **Dorian Amaral (*)**<br>A New Era for Direct Detection Experiments: Probing New Neutrino Physics at Dark Matter Detectors with Solar Neutrinos | Durham University |
| 2022 | **Pablo Martín Ramiro (*)**<br>The Quest for New Physics: from Supersymmetry and Flavour Models to Data-driven Searches Using Machine Learning at the LHC | Universidad Autónoma de Madrid |
| 2021 | **Elliott M. T. Reid**<br>Solar Neutrino Physics at Dark Matter Direct Detection Experiments | Durham University |
| 2019 | **Andrew Cheek (*)**<br>“Preparing for Dark Matter: Maximising our discrimination power in the event of detection” | Durham University |
| 2016 | **Víctor Martín (*)**<br>“Collider Phenomenology of Dark Matter Models”. Co-supervised with Dr. J.Moreno | Universidad Autónoma de Madrid |
| 2014 | **Miguel Peiró (*)**<br>“A complementary approach for the identification of dark matter” | Universidad Autónoma de Madrid |

## MSc

Students marked with an asterisk (*) enrolled a PhD programme after their MSc.

| | | |
|---|---|---|
| 2025 | **Javier Martín del Barrio**<br>Influence of neutrino physics in dark matter production (ongoing) | Universidad Autónoma de Madrid |
| 2024 | **José Miguel Martín Pérez**<br>New physics in neutron decay and supernovae constraints | Universidad Autónoma de Madrid |
| 2022 | **Adriana Bariego Quintana (*)**<br>Dark Matter or Neutrinos. What are we (not yet) seeing in direct detection experiments? | Universidad Autónoma de Madrid |
| 2021 | **Sergio Domínguez Vidales**<br>Searches for new neutrino physics in direct detection experiments | Universidad Autónoma de Madrid |
| 2017 | **Harrison Coombes (*)**<br>“A Model of the Sneutrino as the Constituent Particle of Freeze-In Dark Matter” | Durham University |
| 2016 | **Marina Peñalver**<br>“Background characterization in SuperCDMS” | Durham University |
| | **Pablo Martín (*)**<br>“Phenomenology of the NMSSM at the LHC” | Durham University |
| | **Elena Perdomo (*)**<br>“How high is the neutrino floor in dark matter direct detection experiments?” | Universidad Autónoma de Madrid |
| 2015 | **Elias Gerstmayr (*)**<br>“Direct Detection of Dark Matter: Annual Modulation in EFT operators” | Durham University |
| | **Isabel Pennock**<br>“Studying the neutrino coherent scattering with direct dark matter experiments” | Durham University |
| 2013 | **Leyre Esteban (*)**<br>“Study of the background from cosmogenic muons in SuperCDMS” | Universidad Autónoma de Madrid |
| | **Sandra Robles (*)**<br>“Phenomenology of the RH sneutrino in the NMSSM” | Universidad Autónoma de Madrid |
| 2012 | **Víctor Martín (*)**<br>“Displaced Vertices in the NMSSM with Right-Handed Neutrino” | Universidad Autónoma de Madrid |
| 2010 | **Miguel Peiró (*)**<br>“Very light sneutrino dark matter in the NMSSM” | Universidad Autónoma de Madrid |

## BSc

Final year projects. Students marked with an asterisk (*) enrolled an MSc or PhD programme after obtaining their degree.

| | | |
|---|---|---|
| 2020 | **Imogen Towler**<br>"Direct Detection of Dark Matter" | Durham University |
| | **Benjamin Norris**<br>"Probing the Higgs Portal for Particle Dark Matter" | Durham University |
| | **Charles Wilson**<br>"Direct Detection of Dark Matter" | Durham University |
| 2019 | **Anna David (*)**<br>"Identifying Anapole Dark Matter using Annual Modulation" | Durham University |
| | **Matthew Woodcock**<br>"Directional Detection of Dark Matter" | Durham University |
| | **Oscar Ronald Torsten Braun-White (*)**<br>"A Theorist's Approach to solving the Dark Matter Problem" | Durham University |
| | **Oscar Lally**<br>"Dark Matter: Relic Density Calculation in the NMSSM and Higgs Portal" | Durham University |
| 2018 | **Dorian Amaral (*)**<br>"Disentangling Dark Discs with Annual Modulation" | Durham University |
| | **Daniel Long**<br>"Relic Density Computation for Particle Dark Matter" | Durham University |
| 2017 | **Elliott M. T. Reid (*)**<br>"Direct Detection of Dark Matter" | Durham University |
| | **Wilf Shorrock (*)**<br>"Direct Detection of Dark Matter" | Durham University |
| | **Oliver J. Farrell**<br>"Particle models for Dark Matter" | Durham University |
| | **Anthony C. Graves**<br>"Particle models for Dark Matter" | Durham University |
| 2016 | **Student 1**<br>"Particle models for Dark Matter" | Durham University |
| | **Student 2**<br>"Direct Dark Matter detection" | Durham University |
| | **Student 3**<br>"Direct Dark Matter detection" | Durham University |
| | **Student 4**<br>"Particle models for Dark Matter" | Durham University |
| 2013 | **Cristina Marcos Martín (*)**<br>"Direct detection of dark matter" | Universidad Autónoma de Madrid |
| 2006 | **Tom Varley (*)**<br>"Particle Dark Matter" (Co-supervised with A. Dedes). | Durham University |

# Projects

Projects marked with an asterisk (*) correspond to those where I was PI.

2023-2025 **Astroparticle Laboratory for Elusive Searches (ASTROLABES) (*)** CNS2022-135702
Supported by the Spanish Science and Innovation Ministry under "Proyectos de Consolidación Investigadora". 198.000 € (PI: David G. Cerdeño)

2022-2025 **Particles, Astroparticles and Dark matter in the Universe, PADMU (*)** PID2021-125331NB-I00
Supported by the Spanish Science and Innovation Ministry under "Proyectos de Generación de Conocimiento". 176.660 € (PI: David G. Cerdeño, Miguel A. Sánchez-Conde.)

2022-2023 **Parameters for Understanding Uncertainties (P4UU)** Royal Society of Edinburgh
Local partner in an application supported by the Royal Society of Edinburgh (PI: Rebecca L. Collins)

2020-2024 **DM+$\nu$: Probing the Invisible Side of the Universe (*)** SI2/PBG/2020-00005
Beatriz Galindo Complementary Grant. 216.000 €(PI: David G. Cerdeño).

2020-2022 **Particles, Astroparticles and Dark matter in the Universe, PADMU** PGC2018-095161-B-I00
Supported by the Spanish Science and Innovation Ministry under "Proyectos de Generación de Conocimiento". (PI: Carlos Muñoz, Miguel A. Sánchez-Conde.)

2018-2020 **IPPP Grant** ST/P001246/1
Supported by the STFC (PI: Keith Ellis). I contributed to writing the IPPP joint application, with a line on Astroparticle Physics for which I obtained funding for 1 postdoctoral researcher.

2014-2018 **IPPP Grant** ST/G000905/1
Supported by the STFC (PI: Valentin Khoze, Keith Ellis).

2013-2018 **String Phenomenology in the LHC Era** RC-2012-ADG-20120216-32042
ERC Advanced Grant SPLE (PI: Luis Ibáñez).

2013-2015 **Astroparticles in the Universe** FPA2012-34694
Supported by the Spanish MICINN (PI: Carlos Muñoz).

2012 **Supersymmetric Dark Matter (*)** AIC-D-2011-0771
Cooperation between UAM and Torino University, supported by the Spanish MICINN (PI: David G. Cerdeño).

2009-2014 **Proyecto de Investigación Ramón y Cajal (*)** 1001050044
Supported by the Spanish MICINN (PI: David G. Cerdeño).

2009-2014 **Consolider-Ingenio 2010: MultiDark** CSD2009-00064
Supported by the Spanish MICINN. (PI: Carlos Muñoz).

2009-2014 **HEPHACOS** S2009/ESP-1473
Supported by the Community of Madrid. (PI: Luis Ibáñez)

2009-2013 **UNILHC: Unification in the LHC era** PITN-GA-2009-237920
European Research Network (local PI: Luis Ibáñez)

2009-2013 **Astroparticles in the Universe** FPA2009-08958
Supported by the Spanish MICINN. (PI: Carlos Muñoz).

2008-2009 **Supersymmetric Dark Matter** FPA2008-04058-E/INFN
Cooperation between UAM and Torino University, supported by the Spanish DGI of the MEC and the Italian INFN. (PI: Carlos Muñoz).

2006-2009 **Astroparticles in the Universe: Dark Matter, Neutrinos, and Cosmic Rays** FPA 2006-01105
Supported by the DGI of the Spanish Ministry of Science and Education (MEC) (PI: Gustavo Yepes).

2006-2007 **Direct and Indirect Detection of Dark Matter in Supersymmetry and Superstrings** HF-2005-0005
Acción Integrada Hispano-Francesa between UAM and CNRS (LPT-Orsay), supported by the Spanish DGI of the MEC and the French EGIDE of the Ministry of Foreign Affairs (PI: Carlos Muñoz).

2007-2008 **Susy Dark Matter** INFN07-31, CICYT-INFN 2007
Cooperation between UAM and Torino University, supported by the Spanish DGI of the MEC and the Italian INFN (PI: Carlos Muñoz).

2006-2010 **UniverseNet** MRTN-CT-2006-035863
Research Training Network.

2004-2009 **European Network for Theoretical Astroparticle Physics (ENTApP)** RII3-CT-2004-506222
Part of the Integrated Large Infrastructures for Astroparticle Science **(ILIAS)**, through the University of Durham.

2004-2008 **The Quest for Unification: Theory confronts experiment** MRTN-CT-2004-503369
Research Training Network.

2003-2004 **Acción Integrada Hispano-Alemana** HA2002-0117
Through the DAAD (Deutscher Akademischer Austausch Dienst).

2003-2004 **Deutsche Forschungsgemeinschaft (DFG) Schwerpunktprogramm (1096)** DFG LO 536/5-2
Stringtheorie im Kontext von Teilchenphysik, Quantenfeldtheorie, Quantengravitation, Kosmologie und Mathematik.

2000-2004 **Probing the Origin of Mass** HPRN-CT-2000-00148
RTN European Program, member through the Halle-Hamburg Universities sub-node.

2000-2003 **Física de Partículas: El modelo estándar y más allá** FPA2000-0980
Supported by the Spanish CICYT. At the Department of Theoretical Physics of the Universidad Autónoma de Madrid.

1998-2000 **Física de Altas Energías: El modelo estándar y más allá** AEN97-1678
Supported by the Spanish CICYT. At the Department of Theoretical Physics of the UAM.

# Event Organisation

## Conferences

| | | |
|---|---|---|
| 2025 | **Dark Matter 2025:From the Smallest to the Largest Scales**<br>IFCA, Santander, Spain | IFT UAM/CSIC |
| | **SUPRISE 2025: Supernovae Probes of Invisible Sectors**<br>11-14 March 2025 | IFT UAM/CSIC |
| 2023 | **Dark Matter 2023:From the Smallest to the Largest Scales**<br>(29 May - 2 Jun 2023) | IFCA, Santander, Spain |
| 2022 | **Dark Collaboration Meeting**<br>(2-4 Nov 2022) | IFCA, Santander, Spain |
| | **19th MultiDark Workshop**<br>(25-27 May 2022) | Miraflores de la Sierra, Spain |
| 2021 | **Dark world to swampland: 6th IBS-IFT-MultiDark Workshop**<br>(15-19 Nov 2021) | Online |
| | **18th MultiDark Consolider Workshop**<br>(18-20 Oct 2021) | La Rábida, Spain |
| 2020 | **Dark world to swampland: 5th IBS-IFT-MultiDark Workshop**<br>(13-16 Oct 2020) | Online |
| 2019 | **The Local Dark Matter Distribution**<br>(3 Dec 2019) | IPPP, Durham University |
| | **4th IBS-IPPP-MultiDark Workshop**<br>(7-11 Oct 2019) | Daejeon |
| | **UK HEP Forum: ``What do the next 10 years have in store?''**<br>(24-25 Sep 2019) | Abingdon |
| 2018 | **UK HEP Forum: ``The Spice of Flavour''**<br>(27-28 Nov 2018) | Abingdon |
| | **UKDM Workshop**<br>(13 July 2018) | IPPP, Durham University |
| | **Unraveling the Mystery of Dark Matter**<br>(12-16 March 2018) | IPPP, Durham University |
| 2017 | **UK HEP Forum: "Cosmology, Gravitation and Particle Physics"**<br>(28-29 Nov 2017) | Abingdon |
| 2016 | **Dark Matter from aeV to ZeV: 3$^{rd}$ IBS-IPPP-MultiDark workshop**<br>(21-25 Nov 2016) | IPPP, Durham University |
| | **Dark Matter Interpretations for Direct Detection**<br>(9 Ago 2016) | Lincoln College, Oxford, UK |
| 2015 | **Annual Theory Meeting**<br>(20-22 Dec 2015) | IPPP, Durham University |
| | **2$^{nd}$ IBS-MultiDark Workshop on Dark Matter**<br>(23-27 Nov. 2015) | IFT, Universidad Autónoma de Madrid |
| 2014 | **IBS-MultiDark Program on Dark Matter and Axions**<br>(9-22 Oct. 2014) | IBS, Daejeon, Korea |
| 2013 | **Why $m_H = 126$ GeV?**<br>25-27 Sep 2013 | IFT, Universidad Autónoma de Madrid |

2010 **1$^{st}$ MultiDark Consolider Workshop** IFT, Universidad Autónoma de Madrid
(25-27 Ene 2010)

2009 **XV Christmas Workshop** IFT, Universidad Autónoma de Madrid
(16-18 Dec 2009)

**miniWorkshop on Dark Matters** IFT, Universidad Autónoma de Madrid
(16 - 18 Sep. 2009)

2005 **SUSY05** IPPP, Durham University
Member of the organising committee (18-23 Jul. 2015).

**pre-SUSY05 Workshop** IPPP, Durham University
One of three main organisers (29 Jun - 15 Jul 2015).

## Schools

2022, 25 **TAE** Centro de Ciencias Pedro Pascual, Benasque
Taller de Altas Energías

2018 **YETI20018: Flavours and Resonances** IPPP, Durham University
Young Experimentalists and Theorists Institute (Jan 2018).

2017 **YETI20017: Gravitational Probes of Fundamental Physics** IPPP, Durham University
Young Experimentalists and Theorists Institute (Jan 2017).

2008 **ISAPP2008** Miraflores de la Sierra, Madrid
International School on Astroparticle Physics (21 Jun - 1 Jul 2008).

## Discussion Sessions

2009-2016 **MultiDark Direct Detection Working Group**
Coordinating the discussion sessions of the Direct Detection Working Group in MultiDark Collaboration Meetings (twice per year).

2005-2008 **ENTApP Visitors program**
"Dark Matter in the unconstrained MSSM, Split Supersymmetry, and the NMSSM" (17 Jan. - 4 Feb. 2005, CERN, Geneva), and "Direct Detection of Dark Matter" (Feb. 2008, DESY Hamburg, Germany).

## Seminars

2016-2019 **IPPP, Durham University**
Organiser of the CPT Colloquia.

2016-2018 **IPPP, Durham University**
Organiser of the regular seminar programme.

2006-2009 **Universidad Autónoma de Madrid**
Member of the organising commitee of the regular seminar programme during the academic years 2006-2009.

2005-2006 **IPPP, Durham University**
Member of itemthe organising commitee of the regular seminar programme during the academic year 2005-2006.

# Outreach

2021- **Member of the outreach committee** IFT, Universidad Autónoma de Madrid

2017-2019 **Outreach coordinator** IPPP, Durham University

2017 **Royal Society Summer Exhibition** IPPP, Durham University
Coordinator (together with Prof. A. Lenz) of the IPPP participation at the 2017 Royal Society Summer Exhibition. I managed a budget of £60.000, coordinated a team of 35 scientists and nine technicians (mechanical and electronics).

2009-2014 **Outreach coordinator** IFT, Universidad Autónoma de Madrid

2010-2014 **Outreach coordinator of the MultiDark Consolider Project**

2010-2014 **Member of the Outreach Commitee for the Physics Degree** Universidad Autónoma de Madrid

2012-2013 **Member of the Outreach Working Group** SuperCDMS Collaboration

I have given over 40 public talks on various topics in Particle and Astroparticle Physics for a general audience. This includes seminars in Science and Arts Museums, contributions to multidisciplinary Masters programs, elaboration of material, etc. I have been the local organiser of activities for High School students (organiser of the “International Masterclass” at the IFT in 2010, 2011, 2012 and 2013). I have also contributed with formative lectures (on elementary aspects of Particle Physics and Cosmology) for High School Teachers in 2011, 2012 and 2013.

I contributed to creating a culture of outreach at Durham University, training PhD students. I coordinated the IPPP participation in the prestigious Royal Society Summer Exhibition (together with Prof. A. Lenz). To do this, I raised and managed a budget of £60.000, and coordinated a team of 35 scientists and 9 technicians (mechanical and electronics).

At Madrid UAM I am the local partner in the project ”Parameters for Understanding Uncertainty” funded by the Royal Society of Edinburgh (IP:Dr. Rebecca Collins), a research project bridging arts and sciences that explored new ways of doing outreach in astroparticle physics. In the context of this project, I contributed to the organisation of four interdisciplinary seminars with speakers from various areas of humanities, arts, and science. The videos, hosted at the IFT channel have had a major impact https://youtu.be/ovX3k6jn-f4 (94000 views), https://youtu.be/FYD-SyAytaE (44000 views). I also co-organised a four days workshop for artists and scientists “Prácticas Colectivas de la Incertidumbre” in July 2022, with the participation of 15 researchers in arts and physics (https://youtu.be/d0ZM3zfy9Q0). Finally, I took part in the two month exhibition ”Escuchando la Materia Oscura” (March-April 2023), creating a piece for it ”Dark Matter Crossing (2023).

# Seminars and Colloquia

More than 65 oral presentations in international conferences

Selected list of invited plenary talks:

- "Direct dark matter detection: Leaving no stone unturned", 9th ComHEP: Colombian Meeting on High Energy Physics, Pasto, Colombia **2-6 Dec. 2024**
- "CEvNS in dark matter experiments to constrain neutrino NSI", Magnificent CEvNS 2024, Valencia (Spain) **12-14 Jun. 2024**
- "Light mediators in the neutrino sector: A new playground for direct detection experiments", IRCHEP1400 Iranian Conference on High Energy Physics Deciphering the Universe Ciphers, IPM (Iran - online participation) **8-10 Nov. 2021**.
- "Direct detection window to (light) new physics", Dark Matter as a Portal to New Physics, Asia Pacific Centre for Theoretical Physics (online) **1-5 Feb. 2021**.
- "Eclectic Dark Matter Overview", DMUK Meeting, Manchester (UK), **29 Oct 2019**.
- "Looking for Dark Matter in all directions". CPAN meeting 2019, Oviedo, Spain, **21-23 October, 2019**.
- "Dark Matter Direct Detection". Dark Matter 2018, Santander, Spain, **26 -30 June, 2018**.
- "Towards the Identification of Dark Matter". Rencontres de Blois 2015, Blois, France, **31 May -5 June. 2015**
- "Dark Matter Particle Candidates". TAUP 2013, Monterey, USA, **8-13 Sep. 2013**
- "Where is the New Physics II?- Review of latest non-LHC results". International Workshop on Future Linear Colliders, Arlington, USA, **21-26 Oct. 2012**
- "Dark Matter". XXXIX International Meeting on Fundamental Physics, LSC Canfranc, Spain, **8 Feb. 2011**
- "Direct detection of DM. Where do we go?". Dark Matter in the Sky and Underground, University of Zurich, Switzerland, **22-24 Sep. 2010**
- "LHC impact on Dark Matter searches". WONDER 2010 Workshop, INFN Gran Sasso National Laboratory (LNGS), Italy, **22 Mar. 2010**
- "Supersymmetric Dark Matter: Neutralinos and Sneutrinos". VII workshop on Science with the New Generation of High Energy Gamma-ray Experiments (SciNeGHE 2009). Assisi, Italy, **7 Oct. 2009**
- "Direct Detection and Identification of Dark Matter". International Symposium on Cosmology and Particle Astrophysics: CosPA 2008, Pohang, Korea, **1 Nov. 2008**
- "WIMPs: a brief bestiary". $4^{th}$ Patras Workshop on Axions, WIMPs and WISPs, DESY Hamburg, Germany, **18 Jun. 2008**

54 invited seminars at various universities and research centres

**2024:** Jeonju (Korea), Medellín (Colombia), Tunja (Colombia)

**2023:** Liverpool (UK)

**2021:** IFT Madrid (Spain)

**2020:** Complutense Madrid (Spain), CP3 (Belgium)

**2019:** Queens (Canada); Rome (Italy)

**2018:** Oxford (UK), IFAE (Spain); Zaragoza (Spain); Liverpool (UK)

**2017:** Maynooth (Ireland), Bristol (UK), Royal Holloway (UK)

**2016:** Manchester (UK); Imperial College (UK);

**2015:** IFAE (Spain); Swansea (UK); Nottingham (UK); IPPP (Durham);

**2014:** Granada (Spain); Bonn (Germany);

**2013:** INFN Torino (Italy); GRAPPA Amsterdam (The Netherlands); DESY Hamburg (Germany), IFT (Spain)

**2012:** IFIC (Spain); ULB (Belgium); TMU (Munich)

**2011:** MPIK Heidelberg (Germany); RWTH Aachen (Germany); University of Minnesota (US); IFAE (Spain);

**2009:** TUM (Germany); IFIC (Spain).

**2008:** IAP (France); IFT-UAM (Spain); SNU (Korea); KIAS (Korea); KAIST (Korea).

**2007:** LPT, Orsay (France); CAB-INTA (Spain); IFT-UAM (Spain).

**2006:** University of Sussex (UK).

**2005:** Univ. of Oxford (UK); Centre for Particle Physics at Royal Holloway (UK).

**2004:** Univ. of Lancaster (UK); Univ. of Sheffield (UK); Univ. of Liverpool (UK).

**2003:** DESY Hamburg (Germany) (3 seminars); IPPP Durham (UK).

**2002:** Martin-Luther-Universität Halle-Wittenberg (Germany) (2 seminars).

Colloquia

**2024:** "*A direct detection view of new neutrino physics* ", Mar 2024, University of Torino (Italy)

**2021:** "*Neutrinos in Dark Matter Experiments: Friends or Foes?*", Nov 2021, York University (Canada)

**2018:** "*Seeing the invisible: How to detect and identify the dark matter of the Universe*, Feb 2018 Liverpool University (UK)

**2015:** "*Identifying the Dark Matter*", Feb 2015, Durham University (UK)

**2011:** "*Complementarity of Dark Matter Searches*" Nov. 2011, IFAE (Spain)

# Publications

I have published 89 articles in refereed journals, one book chapter and over 20 proceedings for international conferences. My publications have received more than 8200 citations and leading to an h-index of 43. Listed below are the publications on peer-reviewed journals.

1. **``Disentangling axion-like particle couplings to nucleons via a delayed signal in Super-Kamiokande from a future supernova,''**
   D. Alonso-González, D. Cerdeño, M. Cermeño and A. D. Perez,
   [arXiv:2412.19890 [hep-ph]].
   Submitted to PRD

2. **``Probing a diffuse flux of axion-like particles from galactic supernovae with neutrino water Cherenkov detectors,''**
   D. Alonso-González, D. Cerdeño, M. Cermeño and A. D. Perez,
   [arXiv:2412.09595 [hep-ph]].
   Submitted to PRD

3. **``Bayesian technique to combine independently-trained machine-learning models applied to direct dark matter detection,''**
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DOI:10.1088/1475-7516/2006/06/005
JCAP **0606**, 005 (2006)

84. **``Direct detection of neutralino dark matter in supergravity''**
S. Baek, D. G. Cerdeño, Y. G. Kim, P. Ko and C. Munoz.
hep-ph/0505019
DOI:10.1088/1126-6708/2005/06/017
JHEP **0506**, 017 (2005)

85. **``Theoretical predictions for the direct detection of neutralino dark matter in the NMSSM''**
D. G. Cerdeño, C. Hugonie, D. E. Lopez-Fogliani, C. Munoz and A. M. Teixeira.
hep-ph/0408102
DOI:10.1088/1126-6708/2004/12/048
JHEP **0412**, 048 (2004)

86. **``Neutralino dark matter in supergravity theories with non-universal scalar and gaugino masses''**
D. G. Cerdeño and C. Munoz.
hep-ph/0405057
DOI:10.1088/1126-6708/2004/10/015
JHEP **0410**, 015 (2004)

87. **``A Note on effective N=1 superYang-Mills theories versus lattice results''**
D. G. Cerdeño, A. Knauf and J. Louis.
hep-th/0307198
DOI:10.1140/epjc/s2003-01336-8
Eur. Phys. J. C **31**, 415 (2003)

88. **``Neutralino nucleon cross-section and charge and color breaking constraints''**

D. G. Cerdeño, E. Gabrielli, M. E. Gomez and C. Munoz.
hep-ph/0304115
DOI:10.1088/1126-6708/2003/06/030
JHEP **0306**, 030 (2003)

89. **``Phenomenology of heterotic M theory with five-branes''**
D. G. Cerdeño and C. Munoz.
hep-ph/0206299
DOI:10.1103/PhysRevD.66.115007
Phys. Rev. D **66**, 115007 (2002)

90. **``Muon anomalous magnetic moment in supersymmetric scenarios with an intermediate scale and nonuniversality''**
D. G. Cerdeño, E. Gabrielli, S. Khalil, C. Munoz and E. Torrente-Lujan.
hep-ph/0104242
DOI:10.1103/PhysRevD.64.093012
Phys. Rev. D **64**, 093012 (2001)

91. **``Determination of the string scale in D-brane scenarios and dark matter implications''**
D. G. Cerdeño, E. Gabrielli, S. Khalil, C. Munoz, E. Torrente-Lujan and E. Torrente-Lujan.
hep-ph/0102270
DOI:10.1016/S0550-3213(01)00159-6
Nucl. Phys. B **603**, 231 (2001)

92. **``Phenomenology of nonstandard embedding and five-branes in M theory''**
D. G. Cerdeño and C. Munoz.
hep-ph/9904444
DOI:10.1103/PhysRevD.61.016001
Phys. Rev. D **61**, 016001 (2000)

93. **``An introduction to supergravity''**
D. G. Cerdeño and C. Munoz.
DOI:10.22323/1.001.0011
PoS CORFU **98**, 011 (1998), [PoS corfu **98**, 011 (1998)].

# Full list of seminars and talks at conferences

1. **A new probe of supernova ALPs in neutrino water Cherenkov detectors**
   Higgs Centre, University of Edinburgh, Edinburgh, UK
   17 Feb. 2025
2. **Por qué no hemos encontrado la materia oscura?**
   Tunja, Colombia
   1 Dec. 2024
3. **Studying neutrino properties with dark matter experiments**
   Universidad de Antioquia, Medellin, Colombia
   25 Nov. 2024
4. **Studying neutrino properties with dark matter experiments**
   Universidad de Antioquia, Medellin, Colombia
   25 Nov. 2024
5. **Direct (DM) detection as probes of new neutrino physics**
   Jeonbuk University, Jeonju, Korea
   11 Nov. 2024
6. **Direct (DM) detection as probes of new neutrino physics**
   IBS-MultiDark-IPPP Workshop, Daejeon, Korea
   5-9 Nov. 2024
7. **CEvNS in dark matter experiments to constrain neutrino NSI**
   Magnificent CEvNS Workshop, Valencia, Spain
   11-14 Jun. 2024
8. **A direct detection view of new neutrino physics**
   University of Torino, Italy
   Mar. 2024
9. **How dark matter came to be: Experimental constraints on dark matter production mechanisms**
   Universidad de Zaragoza, Spain
   1 Feb. 2024
10. **A direct detection view of new neutrino physics**
    University of Liverpool, UK
    28 Nov. 2023
11. **Low mass dark matter searches in SuperCDMS and characterisation of the Migdal effect**
    MultiDark Consolider Workshop, Gandia, Spain
    25-27 Oct. 2023
12. **Neutrinos in Direct Detection Experiments: Friends or Foes**
    York University, Alberta, Canada (online)
    16 Nov. 2021
13. **Light mediators in the neutrino sector: A new playground for direct detection experiments**
    IRCHEP1400, Iran (online)
    8-12 Nov. 2021
14. **New light mediators in the neutrino sector**
    MultiDark Consolider Workshop, Huelva, Spain
    18-20 Oct. 2021
15. **Discriminating models with low-mass mediators as a solution to (g-2)mu**
    MultiDark Consolider Workshop, Huelva, Spain
    18-20 Oct. 2021

16. **Discriminating models with low-mass mediators as a solution to (g-2)mu**
    BSM physics in the light of (g-2)mu
    31 May - 4 Jun. 2021
17. **Direct Detection window to (light) new physics**
    Institute for Theoretical Physics, IFT UAM/CSIC, Madrid, Spain
    1 Mar. 2021
18. **Direct Detection window to (light) new physics**
    Dark Matter as a Portal to New Physics, Asia Pacific Center for Theoretical Physics, Pohang, Korea (online)
    1-5 Feb. 2021
19. **Direct Detection of Dark Matter (intro and low-mass DM in SuperCDMS)**
    MultiDark Consolider Workshop, Online
    26 Ene. 2021
20. **Direct Detection window to light new physics**
    Universite de Louvain, Brussels, Belgium
    16 Nov. 2020
21. **Nu physics in direct detection experiments**
    Universidad Complutense, Madrid, Spain
    3 Jul. 2020
22. **Looking for DM in all directions**
    XI CPAN Days, Oviedo, Spain
    21-23 Oct. 2019
23. **Nu Physics in Direct Detection Experiments**
    4th IBS-MultiDark-IPPP Workshop, Daejeon, Korea
    7-11 Oct. 2019
24. **On the (low) threshold to new Physics?**
    Queens University, Kingston, Canada
    12 Jul. 2019
25. **Constraints from CDMSlite**
    SuperCDMS Collaboration Meeting, Montreal, Canada
    8 Jul. 2019
26. **On Dark Matter**
    UIMP International School on Particle Physics and Cosmology 2019, UIMP, Santander, Spain
    1-5 Jul. 2019
27. **Dark Matter Detection**
    XLVII International Meeting on Fundamental Physics, Aranjuez Spain
    3-7 Jun. 2019
28. **Probing the neutrino floor with direct DM detection experiments**
    XLVII International Meeting on Fundamental Physics, Aranjuez Spain
    3-7 Jun. 2019
29. **Probing the neutrino floor with direct dark matter experiments**
    Universita di Roma La Sapienza, Spain
    29 May. 2019
30. **Surrogate Models for direct dark matter detection**
    Universidad de Zaragoza, Spain
    18 Dec. 2018
31. **Nu physics with direct dark matter detection experiments**

The quest for new physics, Valencia, Spain
12-14 Dec. 2018

32. **Probing the neutrino floor with direct detection experiments**
Probing the Dark Universe, OAJ-LSC Synergies, Zaragoza, Spain
5-6 Nov. 2018

33. **On the (low) threshold to new Physics (with direct DM detection experiments)**
Workshop on New Physics (TAMU-KC joint workshop), Hereford, United Kingdom
10-14 Sep. 2018

34. **Prospects and Hopes in dark matter detection**
Dark Matter 2018: From the smallest to the largest scales, IFCA, Santander, Spain
25-19 Jun. 2018

35. **On the (low) threshold to new Physics (with direct DM detection experiments)**
IFAE, Barcelona, Spain
18 May. 2018

36. **Direct Detection: looking for dark matter in all directions**
Durham University, United Kingdom
17 Apr. 2018

37. **On the (low) threshold to new Physics (with direct DM detection experiments)**
Oxford University, United Kingdom
7 Mar. 2018

38. **Seeing the Invisible: How to detect and identify the dark matter of the Universe**
University of Liverpool, UK
14 Feb. 2018

39. **Complementarity of direct detection targets and the use of surrogate models**
Royal Holloway University, London, UK
14 Dec. 2017

40. **Dark Matter (theory biased overview)**
Bristol University, UK
14 Nov. 2017

41. **Direct Dark Matter Detection: Experiment meets Theory**
Direct Dark Matter Detection: Experiment meets Theory, Garching, Germany
6-8 Mar. 2017

42. **On the (low) threshold to new Physics (with direct DM detection experiments)**
Maynooth University, Ireland
14 Feb. 2017

43. **On the (low) threshold to new Physics (with direct DM detection experiments)**
Imperial College, London, United Kingdom
14 Dec. 2016

44. **Constraints on EFT operators in SuperCDMS**
Dark Matter Interpretations for Direct Detection, Oxford, United Kingdom
9 Ago. 2016

45. **Effective Field Theories and Target Complementarity: 28 ways to complicate our life and 4 reasons to do it**
SuperCDMS Collaboration Meeting, University of Minnesota, US
3-6 Ago. 2016

46. **SUSY dark matter: are we looking in the right direction?**
Dark Matter 2016: From the smallest to the largest scales, IFCA, Santander, Spain
27 Jun. - 1 Jul. 2016

47. **A Walleyed perspective of the Dark Matter problem**
XLIV International Meeting on Fundamental Physics, IFT UAM/CSIC, Spain
2-8 Apr. 2016

48. **SuperCDMS: Recent Results for low-mass WIMPs**
IBS-MultiDark Joint workshop on Dark matter and 13th MultiDark Consolider Workshop, IFT UAM/CSIC Madrid, Spain
27-28 Nov. 2015

49. **Hidden Sector Searches**
35th International Symposium on Physics in Collision (PIC 2005), Coventry, United Kingdom
15-19 Sep. 2015

50. **Review of WIMP dark matter**
11th Patras Workshop on Axions, WIMPs and WISPs (AXION-WIMP 2015), Universidad de Zaragoza, Spain
22-26 Jun. 2015

51. **Detection and Identification of low-mass WIMPs**
University of Nottingham, United Kingdom
Mar. 2015

52. **Detection and Identification of low-mass WIMPs**
Swansea University, United Kingdom
Feb. 2015

53. **There's (still) something about light WIMPs**
7th International Symposium on Large TPCs for Low-Energy Rare Event Detection, IAP, Paris Diderot University, Paris, France
15-17 Dec. 2014

54. **SuperCDMS: Recent Results for low-mass WIMPs**
DISCRETE 2014: Fourth Symposium on Prospects in the Physics of Discrete Symmetries, Kings College London, United Kingdom
2-6 Dec. 2014

55. **SuperCDMS: UAM/IFT Contribution**
11th MultiDark Workshop, Santiago de Compostela, Spain
26-28 Nov. 2014

56. **SuperCDMS: Recent Results for low-mass WIMPs**
IBS-MultiDark Joint Focus Program, IBS Daejeon, Korea
10-21 Oct. 2014

57. **EFT approach for general WIMP-nucleus interactions** SuperCDMS Collaboration meeting,
10-11 Oct. 2014

58. **SuperCDMS: Recent Results for low-mass WIMPs**
RENATA/ MultiDark joint meeting: REd NAcional Tematica de Astroparticulas, IFCA Santander, Spain
10-11 Oct. 2014

59. **SuperCDMS: Recent Results for low-mass WIMPs**
Vulcano Workshop 2014: Frontier Objects in Astrophysics and Particle Physics, Vulcano, Italy
18-24 May. 2014

60. **SuperCDMS: Recent Results for low-mass WIMPs**
10th MultiDark Workshop, IFIC, Valencia, Spain
2-4 Apr. 2014

61. **Cazadores de Materia Oscura, De qué está hecho lo que no podemos ver?'** ICHEP 2014: International Conference on High Energy Physics
2-9 Jul. 2014

62. **SuperCDMS: Recent Results for low-mass WIMPs**
    49th Rencontres de Moriond: Cosmology 2014, La Thuile, Iltaly
    22-29 Mar. 2014

63. **Direct Detection of Very Light WIMPs**
    Bonn University, Bonn, Germany
    11 Mar. 2014

64. **Low mass WIMPs a report from the (theoretical) rear and target complementarity for direct detection**
    Universidad Politecnica de Valencia, Gandia
    16 Dec. 2013. 2013

65. **Recent Results and Future Perspectives of SuperCDMS**
    9th MultiDark Consolider Workshop, Alcalá de Henares, Spain
    7-9 Nov. 2013. 2013

66. **CDMS: Recent Results and Future Perspectives**
    PACT Extended Workshop on Fundamental Physics, CMB and LSS in the light of Planck satellite and DES, IIFT UAM/CSIC, Madrid, Spain
    7-31 Oct. 2013

67. **Right-handed sneutrino as WIMP dark matter in the NMSSM**
    TAUP 2013: 13th International Conference on Topics in Astroparticle and Underground Physics, Asilomar, California USA
    8-13 Sep. 2013

68. **Target Complementarity for Direct Dark Matter Detection**
    Dark Matter and New Physics, KITPC Beijing, China 19-31 Aug. 2013

69. **Dark Matter**
    XLI International Meeting on Fundamental Physics, IFCA, Spain
    May. 2013

70. **Complementarity of direct dark matter searches**
    DESY, Hamburg, Germany
    May. 2013

71. **Dark Matter Search Results Using the Silicon Detectors of CDMS II**
    IFT, Madrid, Spain
    22 Apr. 2013

72. **Complementarity of direct dark matter searches**
    GRAPPA, Amsterdam, Netherlands
    Apr. 2013

73. **Complementarity of direct dark matter searches**
    University of Torino, Italy
    Mar. 2013

74. **Complementarity of direct dark matter searches**
    TUM, Munich, Germany
    29 Oct. 2012

75. **Non-collider constraints on new physics: Dark matter searches**

    LCWS2012: International Workshop on Future Linear Colliders, University of Texas at Arlington, US
    21-26 Oct. 2012

76. **Complementarity of direct dark matter searches**
    ULB, Brussels 26 Sep. 2012

77. **Target Complementarity for Direct Dark Matter Detection**

VIII International Workshop on the Dark side of the Universe, Búzios, Brazil
10-15 Jun. 2012

78. **Implications of SUSY searches**
XL International Meeting on Fundamental Physics, Benasque, Spain
24 May -3 Jun. 2012

79. **Dark Matter (Th.)**
XL International Meeting on Fundamental Physics, Benasque, Spain
24 May -3 Jun. 2012

80. **Complementarity of Dark Matter searches**
IFIC, Valencia, Spain
2 Feb. 2012

81. **Optimistic, Realistic, Idealistic Perserctives on direct DM detection**
CDMS Collaboration Meeting, University of Florida, Gainesville, USA
12 Jan. 2012

82. **Complementarity of Dark Matter searches**
IFAE, Barcelona, Spain
25 Nov. 2011

83. **Complementarity of Dark Matter searches**
University of Minnesota, Minneapolis, USA
21 Nov. 2011

84. **Complementarities between Indirect Searches for DM and Direct/Collider searches**
13th ICATPP Conference on Astroparticle, Particle, Space Physics and Detectors for Physics Applications, Villa Olmo, Como, Italy.
3-7 Oct. 2011

85. **Very light RH-sneutrino dark matter in the NMSSM**
DSU 2011: $7^{th}$ international workshop on the Dark Side of the Universe, KITPC, Beijing, China
26-30 Sep. 2011

86. **Complementarity of Dark Matter searches**
RWTH Aachen, Germany
31 May 2011

87. **Dark Matter**
XXXIX International Meeting on Fundamental Physics, LSC Canfranc, Spain
8 Feb. 2011

88. **Very light supersymmetric WIMPs**
MPIK Heidelberg, Germany
10 Jan. 2011

89. **Direct detection of DM. Where do we go?** Dark Matter in the Sky and Underground, University of Zurich, Switzerland.
22-24 Sep. 2010

90. **Sneutrinos as very light WIMPs**
TeV Particle Astrophysics 2010, Paris, France
20 Jul.10

91. **Identification of Dark Matter particles with LHC and direct detection data**
2nd MULTIDARK Consolider Workshop, IFCA, Santander, Spain
28 Jun.10

92. **Identification of Dark Matter particles with LHC and direct detection data**
DSU2009, 6th International Workshop on The Dark Side of the Universe, León, Mexico.
2 Jun.10

93. **LHC impact on Dark Matter searches**
WONDER 2010 Workshop, INFN Gran Sasso National Laboratory (LNGS), Italy
22 Mar.10

94. **Direct detection of WIMPs**
MULTI3 - A cubic approach to Dark Matter, INFN Padova, Italy
3 Mar.10

95. **Dark Matters in Madrid IFT**
1st MULTIDARK Consolider Workshop, Instituto de F'isica Te'orica, Madrid, Spain
25 Jan.10

96. **Sneutrino dark matter in the NMSSM**
Instituto de Fisica Corpuscular (IFIC), Valencia, Spain
16 Nov.09

97. **El lado oscuro del Universo**
Marat'on de Astropart'iculas, Museo Arqueol'ogico de Alcal'a de Henares, Spain
26 Oct.09

98. **Supersymmetric Dark Matter: Neutralinos and Sneutrinos**
VII workshop on Science with the New Generation of High Energy Gamma-ray Experiments (SciNeGHE 2009). Assisi, Italy,
7 Oct.2009

99. **Sneutrino dark matter in the NMSSM**
Extended workshop on DM, LHC and cosmology The KIAS-KAIST-YITP joint workshop, KIAS Seoul, Korea
3 Sep.09

100. **Right-handed sneutrino as WIMP dark matter in the NMSSM**
TAUP 2009: 11th International Conference on Topics in Astroparticle and Underground Physics, Rome, Italy
4 Jul.09

101. **Sneutrino WIMP dark matter**
RENATA 2009: REd NAcional Temática de Astropartículas, Alcalá de Henares, Spain
23 Jun.09

102. **Thermal right-handed sneutrino dark matter in the NMSSM.**
SUSY 2009: The 17th International Conference on Supersymmetry and Unification of Fundamental Interactions, Northeastern University, Boston, USA.
6 Jun.09

103. **Thermal right-handed sneutrino dark matter in the NMSSM.**
DSU2009, 5th International Workshop on The Dark Side of the Universe, Melbourne, Australia.
4 Jun.09

104. **Right-handed sneutrino as WIMP dark matter.**
XXI Workshop: Beyond the standard Model. Bad Honnef, Germany.
18 Mar.09

105. **Identifying WIMPS**
High-energy phenomena in Galaxy Clusters and Dark Matter Searches, IAA Granada, Spain.
27 Feb.09

106. **Right-handed sneutrino as WIMP dark matter**
Techniker Universität München (TUM), München, Germany.
6 Feb.09

107. **Direct Detection and Identification of Dark Matter**

International Symposium on Cosmology and Particle Astrophysics: CosPA 2008, Pohang, Korea
1 Nov.08

108. **A new Supersymmetric dweller on the dark side**
KAIST, Daejeon, Korea
27 Oct.08

109. **A new Supersymmetric dweller on the dark side**
KIAS, Seoul, Korea
24 Oct.08

110. **A new Supersymmetric dweller on the dark side**
Seoul National University, Seoul, Korea
22 Oct.08

111. **Theory of WIMPs**
4th Patras Workshop on Axions, WIMPs and WISPs, DESY Hamburg, Germany
18 Jun.08

112. **Thermal right-handed sneutrino dark matter with a singlet Higgs**
DSU2008: The Dark Side of the Universe, Cairo, Egypt
3 Jun.08

113. **Dark matter detection in DAMA/LIBRA?**
IFT, Universidad Autónoma de Madrid, Madrid, Spain
28 May.08

114. **Dark Matter in the Next-to-MSSM**
ENTApP annual meeting and Visitors Program, DESY, Hamburg, Germany
28 Feb.08

115. **Direct Detection of Dark Matter**
ENTApP annual meeting and Visitors Program, DESY, Hamburg, Germany
26 Feb.08

116. **Deciphering the nature of WIMP dark matter**
Institut d'Astrophysique de Paris, France
21 Jan.08

117. **Towards the Identification of Dark Matter**
LPT, Orsay, France
27 Sep.07

118. **Dark Matters in Madrid**
RENATA 2007: REd NAcional Temática de Astropartículas, Valencia, Spain
18 Sep.07

119. **Who's the WIMP?**
Prospects for the detection of Dark Matter, ENTApP annual meeting
CIECEMA, Matalascañas, Spain
11 Sep.07

120. **WIMP identification through a combined measurement of its spin-dependent and independent couplings**
TeV Particle Astrophysics 2007, Venice, Italy
30 Aug.07

121. **WIMP identification through a combined measurement of its spin-dependent and independent couplings**
DSU2007: The Dark Side of the Universe, Minneapolis, USA
8 Jun.07

122. **The dark side of the Universe**
Centro de Astrobiología (CAB-INTA), Madrid, Spain
21 Mar.07

123. **Spin-dependent searches for WIMP dark matter**
IFT, Universidad Autónoma de Madrid, Madrid, Spain
30 Jan.07

124. **Supersymmetric candidates for dark matter**
RENATA 2006: REd NAcional Temática de Astropartículas, Cullera, Spain
24 Oct.06

125. **Supersymmetric dark matter: Neutralinos - Gravitinos**
BUSSTEPP 2006: 36th British Universities Summer School in Theoretical Elementary Particle Physics, Edinburgh, United Kingdom
28 Aug.06

126. **Neutralino dark matter in Heterotic string scenarios**
DSU2006: The Dark Side of the Universe, Madrid, Spain
24 Jun.06

127. **Supersymmetric dark matter: Neutralinos - Gravitinos?**

University of Sussex, United Kingdom
5 Jun.06

128. **The neutralino as a dark matter candidate in supergravity and superstrings** XLIrst Rencontres de Moriond: Electroweak Interactions and Unified Theories, La Thuile, Italy.
17 Mar.06

129. **Neutralino dark matter from string scenarios**
Cairo International Conference on High Energy Physics (CICHEP II), Cairo, Egypt
17 Jan.06

130. **Neutralino dark matter: predictions for its direct detection**
ENTApP Visitors program and Workshop on Dark Matter, SISSA, Trieste, Italy
12 Oct.05

131. **Direct detection of neutralino dark matter in the NMSSM**
TAUP 2005: 9th International Conference on Topics in Astroparticle and Underground Physics, Zaragoza, Spain
11 Sep.05

132. **Dark Matter in Supersymmetry**
BUSSTEPP 2005: 35th British Universities Summer School in Theoretical Elementary Particle Physics, Ambleside, United Kingdom
22 Aug.05

133. **Direct detection of neutralino dark matter in Supergravity**
SUSY 2005: The 13th International Conference on Supersymmetry and Unification of Fundamental Interactions, IPPP, Durham, United Kingdom
19 Jul.05

134. **Neutralino dark matter detection in the NMSSM and NMSSM**
University of Oxford, United Kingdom
8 Jul.05

135. **Theoretical predictions for the direct detection of neutralino dark matter in the NMSSM**
The 11th International Symposium on Particles Strings and Cosmology, PASCOS05 Gyeongju, Korea
27 May.05

136. **Neutralino dark matter detection in the MSSM and NMSSM**
KIAS-APCTP-DMRC Workshop on The Dark Side of the Universe KIAS, Seoul, Korea
24 May.05

137. **Dark Matter and Supersymmetry**

UK HEP Forum 2005: Dark matter, Cosmology and Particle Physics, Abingdon, United Kingdom
14 May.05

138. **Neutralino dark matter in the NMSSM**
Centre for Particle Physics at Royal Holloway, University of London, United Kingdom
2 Mar.05

139. **Direct detection of neutralino dark matter in the NMSSM**
Higgs-Maxwell Particle Physics Workshop e-Science Institute, Edinburgh, United Kingdom
9 Feb.05

140. **Dark matter in the unconstrained MSSM, Split Supersymmetry, and the NMSSM**
Leader of discussion session at the ENTApP Visitors program and Workshop on Dark Matter, CERN Theory Division, Geneva, Switzerland
28 Jan.05

141. **Neutralino dark matter in the NMSSM**
University of Lancaster, United Kingdom
26 Nov.04

142. **Neutralino dark matter in the NMSSM**
University of Sheffield, United Kingdom
25 Nov.04

143. **Supersymmetric dark Matter**
University of Liverpool, United Kingdom
11 Nov.04

144. **Neutralino dark matter in supergravity theories with non-universal scalars and gauginos**
IDM 2004: 5th International Workshop on the Identification of Dark Matter, Edinburgh, United Kingdom
9 Sep.04

145. **Dark Matter**
Terrestrial and Cosmic Neutrinos, Leptogenesis and Cosmology, Benasque Center for Science, Benasque, Spain
15 Jul.04

146. **Effective $N = 1$ Super Yang-Mills theories versus lattice results**
Planck 04: 7th European Meeting, From the Planck scale to the electroweak scale, Bad Honnef, Germany
25 May.04

147. **Effective $N = 1$ Super Yang-Mills theories versus lattice results**
IX IFT-UAM/CSIC Workshop on Particle Physics.
Universidad Autónoma de Madrid, Spain
17 Dic.03

148. **Weakly Interactive Massive Particles as cold dark matter candidates**
DESY Hamburg, Germany
11 Dic.03

149. **Theoretical predictions for supersymmetric dark matter detection**
Institute for Particle Physics Phenomenology (IPPP), IPPP, Durham, United Kingdom
27 Nov.03

150. **Prospects for neutralino dark matter in string scenarios**
GUTs & Branes: DESY Theory Workshop, DESY Hamburg, Germany
25 Sep.03

151. **Status of neutralino dark matter after WMAP**
TESLA seminars, DESY Hamburg, Germany
4 Jul.03

152. **Theoretical predictions for Supersymmetric dark matter detection**
Planck 03: 6th European Meeting, From the Planck scale to the electroweak scale, CSIC, Madrid, Spain
29 May.03

153. **Supersymmetric Dark matter detection and the Charge and Colour breaking constraints.**
DESY Hamburg, Germany
28 Abr.03

154. **Charge and Colour Breaking constraints on dark matter detection**
XV Workshop: Beyond the standard Model. Bad Honnef, Germany
10 Mar.03

155. **Charge and Colour Breaking constraints on the neutralino-nucleon cross-section**
VIII IFT-UAM/CSIC Workshop on Particle Physics. Universidad Autónoma de Madrid, Spain
18 Dec.02

156. **Some phenomenological analyses in string theory and M-theory**
SUSY02: The 10th International Conference on Supersymmetry and Unification of Fundamental Interactions DESY Hamburg, Germany
20 Jun.02

157. **Some phenomenological analyses in Heterotic M-theory with five-branes**
Martin-Luther-Universität Halle-Wittenberg, Halle, Germany
10 Jun.02

158. **Phenomenological analyses in SUSY scenarios**
Martin-Luther-Universität Halle-Wittenberg, Halle, Germany
10 Jun.02