David G. Cerdeño

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Contact

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Research Fields

Astroparticle Physics
Theory and Phenomenology or Dark Matter models.

Direct Dark Matter detection
Member of the SuperCDMS Collaboration.

Particle Physics Phenomenology
Supersymmetry and String Theory phenomenology.

Positions Held

2020	**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

2012 **Senior Lecturer (Profesor Titular) Spanish Accreditation** — 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

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

2018-2020 **Course Director for the MSc programme ``Particles, Strings and Cosmolog''** 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 a member of the Diversity and Equality Committee, currently the secretary. As such, I contributed to the (successful) ATHENA Swan Silver application.

Teaching

Postgraduate Courses

2014-2020 **Astroparticle Physics** Durham University
6 courses, 8 hours each

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

2013-2020 **Astroparticle Physics** Universidad Autónoma de Madrid
Lecturer and course coordinator. 7 courses, 12 hours each

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

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

2014-2020 **Mathematics Workshop: Integral Transforms (PHYS3591)** Durham University
5 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

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 (*) obtained a postdoctoral position after their PhD.

Ongoing	**David Alonso González**	Universidad Autónoma de Madrid
Ongoing	**Dorian Amaral**	Durham University
Ongoing	**Pablo Martín** PhD expected 2020	Universidad Autónoma de Madrid
2021	**Elliott M. T. Reid** Solar Neutrino Physics at Dark Matter Direct Detection Experiments	Durham University
2019	**Andrew Cheek (*)** “Preparing for Dark Matter: Maximising our discrimination power in the event of detection”	Durham University
2016	**Víctor Martín (*)** “Collider Phenomenology of Dark Matter Models”. Co-supervised with Dr. J.Moreno	Universidad Autónoma de Madrid
2014	**Miguel Peiró (*)** “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.

Ongoing	**Adriana**	Universidad Autónoma de Madrid
	Harrison Coombes (*) “A Model of the Sneutrino as the Constituent Particle of Freeze-In Dark Matter”	Durham University
2016	**Marina Peñalver** “Background characterization in SuperCDMS”	Durham University
	Pablo Martín (*) “Phenomenology of the NMSSM at the LHC”	Durham University
	Elena Perdomo (*) “How high is the neutrino floor in dark matter direct detection experiments?”	Universidad Autónoma de Madrid
2015	**Elias Gerstmayr (*)** “Direct Detection of Dark Matter: Annual Modulation in EFT operators”	Durham University
	Isabel Pennock “Studying the neutrino coherent scattering with direct dark matter experiments”	Durham University
2013	**Leyre Esteban (*)** “Study of the background from cosmogenic muons in SuperCDMS”	Universidad Autónoma de Madrid
	Sandra Robles (*) “Phenomenology of the RH sneutrino in the NMSSM”	Universidad Autónoma de Madrid
2012	**Víctor Martín (*)** “Displaced Vertices in the NMSSM with Right-Handed Neutrino”	Universidad Autónoma de Madrid
2010	**Miguel Peiró (*)** “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.

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

Projects

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

2022 **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 **(*)** SI2/PBG/2020-00005
Beatriz Galindo Complementary Grant. 216.000€(PI: David G. Cerdenoño).

2017-2019 **IPPP Grant** STFC
I contributed to writing the IPPP joint application, with a line on Astroparticle Physics for which I obtained funding for 1 postdoctoral researcher.

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)

2009-2012 **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)** RII-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.

Event Organisation

Conferences

2021	**Dark world to swampland: 6th IBS-IFT-MultiDark Workshop** (15-19 Nov 2021)	Online
	18th MultiDark Consolider Workshop (18-20 Oct 2021)	La Rábida, Spain
2020	**Dark world to swampland: 5th IBS-IFT-MultiDark Workshop** (13-16 Oct 2020)	Online
2019	**4th IBS-IPPP-MultiDark Workshop** (10-17 Oct 2020)	Daejeon
	3rd IBS-IPPP-MultiDark Workshop (10-17 Oct 2019)	Daejeon
	UK HEP Forum: ``What do the next 10 years have in store?'' (24-25 Sep 2019)	Abingdon
2018	**UK HEP Forum: ``The Spice of Flavour''** (27-28 Nov 2018)	Abingdon
	UKDM Workshop (13 July 2018)	IPPP, Durham University
	Unraveling the Mystery of Dark Matter (12-16 March 2018)	IPPP, Durham University
2017	**UK HEP Forum: "Cosmology, Gravitation and Particle Physics"** (28-29 Nov 2017)	Abingdon
2016	**Dark Matter from aeV to ZeV: 3rd IBS-IPPP-MultiDark workshop** (21-25 Nov 2016)	IPPP, Durham University
	Dark Matter Interpretations for Direct Detection (9 Ago 2016)	Lincoln College, Oxford, UK
2015	**Annual Theory Meeting** (20-22 Dec 2015)	IPPP, Durham University
	2nd IBS-MultiDark Workshop on Dark Matter (23-27 Nov. 2015)	IFT, Universidad Autónoma de Madrid
2014	**IBS-MultiDark Program on Dark Matter and Axions** (9-22 Oct. 2014)	IBS, Daejeon, Korea
2013	**Why $m_H = 126$ GeV?** 25-27 Sep 2013	IFT, Universidad Autónoma de Madrid
2010	**1st MultiDark Consolider Workshop** (25-27 Ene 2010)	IFT, Universidad Autónoma de Madrid
2009	**XV Christmas Workshop** (16-18 Dec 2009)	IFT, Universidad Autónoma de Madrid
	miniWorkshop on Dark Matters (16 - 18 Sep. 2009)	IFT, Universidad Autónoma de Madrid
2005	**SUSY05** Member of the organising committee (18-23 Jul. 2015).	IPPP, Durham University
	pre-SUSY05 Workshop One of three main organisers (29 Jun - 15 Jul 2015).	IPPP, Durham University

Schools

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 the organising commitee of the regular seminar programme during the academic year 2005-2006.

Outreach

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.

Seminars and Colloquia

More than 60 oral presentations in international conferences

Selected list of invited plenary talks:

- "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**

50 invited seminars at various universities and research centres

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

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 70 articles in refereed journals, one book chapter and over 20 proceedings for international conferences. My publications have received more than 4500 citations and leading to an h-index of 36.

1. **``B anomalies and dark matter: a complex connection''**
   D. G. Cerdeño, A. Cheek, P. Martn-Ramiro and J. M. Moreno.
   arXiv:1902.01789 [hep-ph]
   DOI:10.1140/epjc/s10052-019-6979-x
   Eur. Phys. J. C **79**, no. 6, 517 (2019)
   IPPP/19/8; IFT-UAM/CSIC-19-13
   INSPIRE-HEP entry

2. **``On the correlation between the local dark matter and stellar velocities''**
   N. Bozorgnia, A. Fattahi, D. G. Cerdeño, C. S. Frenk, F. A. Gmez, R. J. J. Grand, F. Marinacci and R. Pakmor.
   arXiv:1811.11763 [astro-ph.GA]
   DOI:10.1088/1475-7516/2019/06/045
   JCAP **1906**, no. 06, 045 (2019)
   INSPIRE-HEP entry

3. **``Opening the energy window on direct dark matter detection''**
   N. Bozorgnia, D. G. Cerdeño, A. Cheek and B. Penning.
   arXiv:1810.05576 [hep-ph]
   DOI:10.1088/1475-7516/2018/12/013
   JCAP **1812**, no. 12, 013 (2018)
   IPPP/18/92
   INSPIRE-HEP entry

4. **``How high is the neutrino floor?''**
   C. BÏhm, D. G. Cerdeño, P. A. N. Machado, A. Olivares-Del Campo and E. Reid.
   arXiv:1809.06385 [hep-ph]
   DOI:10.1088/1475-7516/2019/01/043
   JCAP **1901**, 043 (2019)
   IPPP/18/72, FERMILAB-PUB-18-486-T
   INSPIRE-HEP entry

5. **``Search for Low-Mass Dark Matter with CDMSlite Using a Profile Likelihood Fit''**
   R. Agnese *et al.* [SuperCDMS Collaboration].
   arXiv:1808.09098 [astro-ph.CO]
   DOI:10.1103/PhysRevD.99.062001
   Phys. Rev. D **99**, no. 6, 062001 (2019)
   FERMILAB-PUB-18-435-AE
   INSPIRE-HEP entry

6. **``Production Rate Measurement of Tritium and Other Cosmogenic Isotopes in Germanium with CDMSlite''**
   R. Agnese *et al.* [SuperCDMS Collaboration].
   arXiv:1806.07043 [physics.ins-det]
   DOI:10.1016/j.astropartphys.2018.08.006
   Astropart. Phys. **104**, 1 (2019)
   FERMILAB-PUB-18-289-AE
   INSPIRE-HEP entry

7. **``Energy Loss Due to Defect Formation from ^{206}Pb Recoils in SuperCDMS Germanium Detectors''**
   R. Agnese *et al.* [SuperCDMS Collaboration].
   arXiv:1805.09942 [physics.ins-det]
   DOI:10.1063/1.5041457
   Appl. Phys. Lett. **113**, no. 9, 092101 (2018)

FERMILAB-PUB-18-291-AE
INSPIRE-HEP entry

8. **``The Power of Genetic Algorithms: what remains of the pMSSM?''**
S. Abel, D. G. Cerdeño and S. Robles.
arXiv:1805.03615 [hep-ph]
IPPP/18/32, IPPP-18-32
INSPIRE-HEP entry

9. **``First Dark Matter Constraints from a SuperCDMS Single-Charge Sensitive Detector''**
R. Agnese *et al.* [SuperCDMS Collaboration].
arXiv:1804.10697 [hep-ex]
DOI:10.1103/PhysRevLett.122.069901, 10.1103/PhysRevLett.121.051301
Phys. Rev. Lett. **121**, no. 5, 051301 (2018), Erratum: [Phys. Rev. Lett. **122**, no. 6, 069901 (2019)]
FERMILAB-PUB-18-150-AE
INSPIRE-HEP entry

10. **``Nuclear-Recoil Energy Scale in CDMS II Silicon Dark-Matter Detectors''**
R. Agnese *et al.* [CDMS Collaboration].
arXiv:1803.02903 [physics.ins-det]
DOI:10.1016/j.nima.2018.07.028
Nucl. Instrum. Meth. A **905**, 71 (2018)
FERMILAB-PUB-18-078-AE-CD-E
INSPIRE-HEP entry

11. **``Surrogate Models for Direct Dark Matter Detection''**
D. G. Cerdeño, A. Cheek, E. Reid and H. Schulz.
arXiv:1802.03174 [hep-ph]
DOI:10.1088/1475-7516/2018/08/011
JCAP **1808**, no. 08, 011 (2018)
IPPP-18-12, DCTP-18-24, IPPP/18/12; DCTP/18/24
INSPIRE-HEP entry

12. **``$B + L$ violation at colliders and new physics''**
D. G. Cerdeño, P. Reimitz, K. Sakurai and C. Tamarit.
arXiv:1801.03492 [hep-ph]
DOI:10.1007/JHEP04(2018)076
JHEP **1804**, 076 (2018)
IPPP-17-101, DCTP-17-202, TUM-HEP-1126-18
INSPIRE-HEP entry

13. **``CNO Neutrino Grand Prix: The race to solve the solar metallicity problem''**
D. G. Cerdeño, J. H. Davis, M. Fairbairn and A. C. Vincent.
arXiv:1712.06522 [hep-ph]
DOI:10.1088/1475-7516/2018/04/037
JCAP **1804**, 037 (2018)
IPPP-17-103, DCTP-17-206, KCL-PH-TH-2017-64
INSPIRE-HEP entry

14. **``Results from the Super Cryogenic Dark Matter Search Experiment at Soudan''**
R. Agnese *et al.* [SuperCDMS Collaboration].
arXiv:1708.08869 [hep-ex]
DOI:10.1103/PhysRevLett.120.061802
Phys. Rev. Lett. **120**, no. 6, 061802 (2018)
FERMILAB-PUB-17-346-AE-E
INSPIRE-HEP entry

15. **``The Constrained NMSSM with right-handed neutrinos''**
D. G. Cerdeño, V. De Romeri, V. Martn-Lozano, K. A. Olive and O. Seto.

arXiv:1707.03990 [hep-ph]
DOI:10.1140/epjc/s10052-018-5689-0
Eur. Phys. J. C **78**, no. 4, 290 (2018)
IPPP-17-56, DCTP-17-112, IFT-UAM-CSIC-17-064, BONN-TH-2017-06, EPHOU-17-011, UMN-TH-3631-17, FTPI-MINN-17-13
INSPIRE-HEP entry

16. **``Low-mass dark matter search with CDMSlite''**
R. Agnese *et al.* [SuperCDMS Collaboration].
arXiv:1707.01632 [astro-ph.CO]
DOI:10.1103/PhysRevD.97.022002
Phys. Rev. D **97**, no. 2, 022002 (2018)
FERMILAB-PUB-17-265-AE
INSPIRE-HEP entry

17. **``Reopening the Higgs portal for single scalar dark matter''**
J. A. Casas, D. G. Cerdeño, J. M. Moreno and J. Quilis.
arXiv:1701.08134 [hep-ph]
DOI:10.1007/JHEP05(2017)036
JHEP **1705**, 036 (2017)
IFT-UAM-CSIC-16-113, IPPP-16-107, DCTP-16-214
INSPIRE-HEP entry

18. **``Multidimensional effective field theory analysis for direct detection of dark matter''**
H. Rogers, D. G. Cerdeño, P. Cushman, F. Livet and V. Mandic.
arXiv:1612.09038 [astro-ph.CO]
DOI:10.1103/PhysRevD.95.082003
Phys. Rev. D **95**, no. 8, 082003 (2017)
IPPP-16-125, DCTP-15-250
INSPIRE-HEP entry

19. **``Projected Sensitivity of the SuperCDMS SNOLAB experiment''**
R. Agnese *et al.* [SuperCDMS Collaboration].
arXiv:1610.00006 [physics.ins-det]
DOI:10.1103/PhysRevD.95.082002
Phys. Rev. D **95**, no. 8, 082002 (2017)
FERMILAB-PUB-16-467-AE
INSPIRE-HEP entry

20. **``Towards the next generation of simplified Dark Matter models''**
A. Albert *et al.*.
arXiv:1607.06680 [hep-ex]
DOI:10.1016/j.dark.2017.02.002
Phys. Dark Univ. **16**, 49 (2017)
INSPIRE-HEP entry

21. **``How to calculate dark matter direct detection exclusion limits that are consistent with gamma rays from annihilation in the Milky Way halo''**
D. G. Cerdeño, M. Fornasa, A. M. Green and M. Peiro.
arXiv:1605.05185 [astro-ph.CO]
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