

Curriculum Vitae

Pavel Fileviez Perez, Ph.D.

Assistant Professor of Physics

Department of Physics, Case Western Reserve University

2076 Adelbert Road, Cleveland, OH 44106, USA

Email: pxfl12@case.edu

Website: <https://fileviez.com>



2015 Habilitation at Heidelberg University, Germany.

2003 Ph.D. in Theoretical Physics, Max Planck Institute for Physics
(Werner-Heisenberg-Institute), Munich, Germany
Thesis: Phenomenological Aspects of Supersymmetric Gauge Theories
Advisors: Prof. M. Drees and Prof. G. Senjanovic

2000 M.S. in High Energy Physics
International Centre for Theoretical Physics (ICTP), Trieste, Italy.

1998 B.S. in Nuclear Physics, Summa Cum Laude
Institute for Nuclear Sciences and Technology, Havana, Cuba.

Professional Appointments

Since 2016 Assistant Professor of Physics, Department of Physics,
Case Western Reserve University, Cleveland, USA

2012 - 2015 Visiting Associate, Division of Physics, Mathematics and Astronomy,
California Institute of Technology (Caltech), Pasadena, CA, USA.

2012 - 2016 Associate Scientist, Particle and Astro-Particle Physics Division
Max Planck Institute for Nuclear Physics, Heidelberg, Germany.

Postdoctoral appointments

- 2011 - 2012 James Arthur Fellow, Center for Cosmology and Particle Physics (CCPP), New York University, USA.
- 2007 - 2011 Dirac Fellow, Research Associate, Assistant Scientist
Department of Physics, University of Wisconsin-Madison, WI, USA.
- 2005 - 2007 Research Associate, Center for Theoretical Particle Physics (CFTP), Instituto Superior Tecnico, Lisbon, Portugal.
- 2004 - 2005 Fondecyt Fellow and Lecturer, Pontificia Universidad Catolica de Chile, Chile.

Professional Honors and Awards

- International Advisory Committee, International Symposia on Particles, Strings and Cosmology (PASCOS).
- Severo Ochoa Colloquium at IFIC-Valencia, Spain, Nov 16, 2017.
- James Arthur Fellowship, Center for Cosmology and Particle Physics (CCPP), New York University, 2011-2012.
- Dirac Fellowship, Phenomenology Institute, University of Wisconsin-Madison, 2010.
- Max Planck Society Fellowship, Max Planck Institute for Physics, Munich, Germany, 2000-2003.
- UNESCO-ICTP Fellowship, ICTP Diploma Course in High Energy Physics, Trieste, Italy, 1999.

Professional Services

- Chairman of the 2019 International Workshop on Lepton and Baryon Number Violation (BLV2019), Institute for Theoretical Physics (IFT), Madrid, Spain, 21-24 October 2019.
- Organizer: PITT PACC Workshop: BSM circa 2020, 28 February-2 March, 2019. University of Pittsburgh, USA.

- Chairman of the 24th International Symposium on Particles, Strings and Cosmology (PASCOS2018), Cleveland, USA.
- Chairman of the 2017 International Workshop on Lepton and Baryon Number Violation (BLV2017), Cleveland, USA.
- Chairman of the 2015 International Workshop on Lepton and Baryon Number Violation (BLV2015), University of Massachusetts- Amherst, USA.
- Chairman of the 2013 Workshop on Lepton and Baryon Number Violation (BLV2013), MPIK, Heidelberg, Germany.
- Chairman of the 2011 Workshop on Lepton and Baryon Number Violation (BLV2011), Great Smoky Mountains, UTK, USA.
- Chairman of the 2009 Workshop on Lepton and Baryon Number Violation (BLV09), Madison, WI, USA.
- Chairman, Model Building Session, Supersymmetry 2009, Northeastern Univ., Boston.
- Referee for Physical Review Letters, Journal of High Energy Physics (JHEP), Physics Letters B, Physical Review D, and European Physics Letters.
- National Science Foundation, Referee for the GRF National Program, Panel Review, Washington DC, USA, 2011.
- National Science Foundation, Referee for the GRF National Program, Panel Review, Washington DC, USA, 2010.

Teaching Activities

General Physics II. Electricity and Magnetism (PHYS 122) Spring 2019

Gauge Field Theory ([PHYS 591](#)), Case Western Reserve University, Fall 2018.

Quantum Mechanics II ([PHYS 482](#)), Case Western Reserve University, Spring 2018.

The Standard Model of Particle Physics, Case Western Reserve University, Fall 2016.

The Standard Model of Particle Physics at Heidelberg University, Summer 2015.

<https://uebungen.physik.uni-heidelberg.de/vorlesung/20151/smpp>

The Standard Model of Particle Physics at Heidelberg University, Summer 2014.

<https://uebungen.physik.uni-heidelberg.de/vorlesung/20141/smpp>

Lectures on Physics beyond the Standard Model and Grand Unified Theories
Department of Physics, IST-Lisbon, 2007.

Mechanics, PUC, Chile, Department of Physics, 2004-2005.

Research Support

2017-2018: US Department of Energy, DOE Grant: [no.de-sc0018005](#): New Theories for Physics beyond the Standard Model.

Scientific Publications

More than **80** publications in Particle Physics and Cosmology including two Physics Reports.

See my profile in Google Scholar [HERE](#)

For the complete list of publications from INSPIRE click [here](#)

[84\) Leptophobic Dark Matter and the Baryon Number Violation Scale.](#)

By Pavel Fileviez Pérez, Elliot Goliás, Rui-Hao Li, Clara Murgui.
[arXiv:1810.06646 [hep-ph]], Physical Review D (2019), in press

[83\) Seesaw scale, unification, and proton decay.](#)

By Pavel Fileviez Pérez, Axel Gross, Clara Murgui.
[10.1103/PhysRevD.98.035032](#).
Phys.Rev. D98 (2018) no.3, 035032.

[82\) Dark Matter and The Seesaw Scale.](#)

By Pavel Fileviez Pérez, Clara Murgui.

[10.1103/PhysRevD.98.055008.](#)

Phys.Rev. D98 (2018) no.5, 055008.

[81\) Sterile neutrinos and B–L symmetry.](#)

By Pavel Fileviez Perez, Clara Murgui.

[10.1016/j.physletb.2017.12.041.](#)

Phys.Lett. B777 (2018) 381-387.

[80\) Baryonic Higgs at the LHC.](#)

By Michael Duerr, Pavel Fileviez Pérez, Juri Smirnov.

[10.1007/JHEP09\(2017\)093.](#)

JHEP 1709 (2017) 093.

[79\) Lepton Flavour Violation in Left-Right Theory.](#)

By Pavel Fileviez Perez, Clara Murgui.

[10.1103/PhysRevD.95.075010.](#)

Phys.Rev. D95 (2017) no.7, 075010.

[78\) Unification and Local Baryon Number.](#)

By Pavel Fileviez Perez, Sebastian Ohmer.

[10.1016/j.physletb.2017.02.049.](#)

Phys.Lett. B768 (2017) 86-91.

[77\) Simple Left-Right Theory: Lepton Number Violation at the LHC.](#)

By Pavel Fileviez Perez, Clara Murgui, Sebastian Ohmer.

[10.1103/PhysRevD.94.051701.](#)

Phys.Rev. D94 (2016) no.5, 051701.

[76\) Renormalizable SU\(5\) Unification.](#)

By Pavel Fileviez Perez, Clara Murgui.

[10.1103/PhysRevD.94.075014.](#)

Phys.Rev. D94 (2016) no.7, 075014.

[75\) Gamma-Ray Excess and the Minimal Dark Matter Model.](#)

By Michael Duerr, Pavel Fileviez Pérez, Juri Smirnov.

[10.1007/JHEP06\(2016\)008.](#)

JHEP 1606 (2016) 008.

[74\) Scalar Dark Matter: Direct vs. Indirect Detection.](#)

By Michael Duerr, Pavel Fileviez Pérez, Juri Smirnov.

[10.1007/JHEP06\(2016\)152.](#)

JHEP 1606 (2016) 152.

[73\) Scalar Singlet Dark Matter and Gamma Lines.](#)

By Michael Duerr, Pavel Fileviez Perez, Juri Smirnov.

[10.1016/j.physletb.2015.10.034.](#)

Phys.Lett. B751 (2015) 119-122.

[72\) Gamma Lines from Majorana Dark Matter.](#)

By Michael Duerr, Pavel Fileviez Perez, Juri Smirnov.

[10.1103/PhysRevD.93.023509.](#)

Phys.Rev. D93 (2016) 023509.

[71\) Simplified Dirac Dark Matter Models and Gamma-Ray Lines.](#)

By Michael Duerr, Pavel Fileviez Perez, Juri Smirnov.

[10.1103/PhysRevD.92.083521.](#)

Phys.Rev. D92 (2015) no.8, 083521.

[70\) New Paradigm for Baryon and Lepton Number Violation.](#)

By Pavel Fileviez Perez.

[10.1016/j.physrep.2015.09.001.](#)

Phys.Rept. 597 (2015) 1-30.

[69\) Theory for Baryon Number and Dark Matter at the LHC.](#)

By Michael Duerr, Pavel Fileviez Perez.

[10.1103/PhysRevD.91.095001.](#)

Phys.Rev. D91 (2015) no.9, 095001.

[68\) Low Scale Unification of Gauge Interactions.](#)

By Pavel Fileviez Perez, Sebastian Ohmer.

[10.1103/PhysRevD.90.037701.](#)

Phys.Rev. D90 (2014) no.3, 037701.

[67\) Minimal Theory for Lepto-Baryons.](#)

By Pavel Fileviez Perez, Sebastian Ohmer, Hiren H. Patel.

[10.1016/j.physletb.2014.06.057.](#)

Phys.Lett. B735 (2014) 283-287.

[66\) The Electroweak Vacuum Angle.](#)

By Pavel Fileviez Perez, Hiren H. Patel.

[10.1016/j.physletb.2014.03.064.](#)

Phys.Lett. B732 (2014) 241-243.

[65\) Higgs mass and the Stueckelberg mechanism in supersymmetry.](#)

By Pavel Fileviez Perez, Sogee Spinner.

[10.1103/PhysRevD.89.095004.](#)

Phys.Rev. D89 (2014) no.9, 095004.

[64\) Baryon Asymmetry, Dark Matter and Local Baryon Number.](#)

By Pavel Fileviez Pérez, Hiren H. Patel.

[10.1016/j.physletb.2014.02.047.](#)

Phys.Lett. B731 (2014) 232-235.

[63\) B and L at the supersymmetry scale, dark matter, and R-parity violation.](#)

By Jonathan M. Arnold, Pavel Fileviez Pérez, Bartosz Fornal, Sogee Spinner.

[10.1103/PhysRevD.88.115009.](#)

Phys.Rev. D88 (2013) no.11, 115009.

[62\) Baryonic Dark Matter.](#)

By Michael Duerr, Pavel Fileviez Perez.

[10.1016/j.physletb.2014.03.011.](#)

Phys.Lett. B732 (2014) 101-104.

[61\) Supersymmetry at the LHC and The Theory of R-parity.](#)

By Pavel Fileviez Perez, Sogee Spinner.

[10.1016/j.physletb.2013.12.022.](#)

Phys.Lett. B728 (2014) 489-495.

[60\) Low Scale Quark-Lepton Unification.](#)

By Pavel Fileviez Perez, Mark B. Wise.

[10.1103/PhysRevD.88.057703.](#)

Phys.Rev. D88 (2013) 057703.

[59\) Left-Right Symmetric Theory with Light Sterile Neutrinos.](#)

By Michael Duerr, Pavel Fileviez Perez, Manfred Lindner.

[10.1103/PhysRevD.88.051701.](#)

Phys.Rev. D88 (2013) 051701.

[58\) Gauge Theory for Baryon and Lepton Numbers with Leptoquarks.](#)

By Michael Duerr, Pavel Fileviez Perez, Mark B. Wise.

[10.1103/PhysRevLett.110.231801.](#)

Phys.Rev.Lett. 110 (2013) 231801.

[57\) Baryon Asymmetry and Dark Matter Through the Vector-Like Portal.](#)

By Pavel Fileviez Perez, Mark B. Wise.

[10.1007/JHEP05\(2013\)094.](#)

JHEP 1305 (2013) 094.

[56\) Higgs mass via type II seesaw mechanism.](#)

By Pavel Fileviez Pérez, Sogee Spinner.

[10.1103/PhysRevD.87.031702.](#)

Phys.Rev. D87 (2013) no.3, 031702.

[55\) On the Higgs Mass and Perturbativity.](#)

By Pavel Fileviez Perez, Sogee Spinner.

[10.1016/j.physletb.2013.05.052.](#)

Phys.Lett. B723 (2013) 371-383.

[54\) Supersymmetric Dark Matter Sectors.](#)

By Jonathan M. Arnold, Pavel Fileviez Perez, Bartosz Fornal.

[10.1016/j.physletb.2012.09.066.](#)

Phys.Lett. B718 (2012) 75-79.

[53\) On Higgs Decays, Baryon Number Violation, and SUSY at the LHC.](#)

By Jonathan M. Arnold, Pavel Fileviez Perez, Bartosz Fornal, Sogee Spinner.

[10.1103/PhysRevD.85.115024.](#)

Phys.Rev. D85 (2012) 115024.

[52\) The Minimal Theory for R-parity Violation at the LHC.](#)

By Pavel Fileviez Perez, Sogee Spinner.

[10.1007/JHEP04\(2012\)118.](#)

JHEP 1204 (2012) 118.

[51\) SUSY Spectrum and the Higgs Mass in the BLMSSM.](#)

By Pavel Fileviez Perez.

[10.1016/j.physletb.2012.04.016.](#)

Phys.Lett. B711 (2012) 353-359.

[50\) R-parity Conservation via the Stueckelberg Mechanism: LHC and Dark Matter Signals.](#)

By Daniel Feldman, Pavel Fileviez Perez, Pran Nath.

[10.1007/JHEP01\(2012\)038.](#)

JHEP 1201 (2012) 038.

[49\) Gauge Origin of M-Parity and the mu-Term in Supersymmetry.](#)

By Pavel Fileviez Perez, Martin Gonzalez-Alonso, Sogee Spinner.

[10.1103/PhysRevD.84.095014.](#)

Phys.Rev. D84 (2011) 095014.

[48\) Breaking Local Baryon and Lepton Number at the TeV Scale.](#)

By Pavel Fileviez Perez, Mark B. Wise.

[10.1007/JHEP08\(2011\)068.](#)

JHEP 1108 (2011) 068.

[47\) Low Energy Supersymmetry with Baryon and Lepton Number Gauged.](#)

By Pavel Fileviez Perez, Mark B. Wise.

[10.1103/PhysRevD.84.055015.](#)

Phys.Rev. D84 (2011) 055015.

[46\) Dark Forces At The Tevatron.](#)

By Matt Buckley, Pavel Fileviez Perez, Dan Hooper, Ethan Neil.

[10.1016/j.physletb.2011.07.012.](#)

Phys.Lett. B702 (2011) 256-259.

[45\) The LSP Stability and New Higgs Signals at the LHC.](#)

By Pavel Fileviez Perez, Sogee Spinner, Maike K. Trenkel.

[10.1103/PhysRevD.84.095028.](#)

Phys.Rev. D84 (2011) 095028.

[44\) Testing the Mechanism for the LSP Stability at the LHC.](#)

By Pavel Fileviez Perez, Sogee Spinner, Maike K. Trenkel.

[10.1016/j.physletb.2011.07.015.](#)

Phys.Lett. B702 (2011) 260-264.

[43\) Lepton Number Violation from Colored States at the LHC.](#)

By Pavel Fileviez Perez, Tao Han, Sogee Spinner, Maike K. Trenkel.

[10.1007/JHEP01\(2011\)046.](#)

JHEP 1101 (2011) 046.

[42\) Three Layers of Neutrinos.](#)

By Vernon Barger, Pavel Fileviez Perez, Sogee Spinner.

[10.1016/j.physletb.2011.01.015.](#)

Phys.Lett. B696 (2011) 509-512.

[41\) The Fate of R-Parity.](#)

By Pavel Fileviez Perez, Sogee Spinner.

[10.1103/PhysRevD.83.035004.](#)

Phys.Rev. D83 (2011) 035004.

[40\) Dark Matter, Baryon Asymmetry, and Spontaneous B and L Breaking.](#)

By Timothy R. Dulaney, Pavel Fileviez Perez, Mark B. Wise.

[10.1103/PhysRevD.83.023520.](#)

Phys.Rev. D83 (2011) 023520.

[39\) Baryon and lepton number as local gauge symmetries.](#)

By Pavel Fileviez Perez, Mark B. Wise.

[10.1103/PhysRevD.82.079901,](#) [10.1103/PhysRevD.82.011901.](#)

Phys.Rev. D82 (2010) 011901, Erratum: Phys.Rev. D82 (2010) 079901.

[38\) Gauge Mediated SUSY Breaking via Seesaw.](#)

By Pavel Fileviez Perez, Hoernisa Iminniyaz, German Rodrigo, Sogee Spinner.

[10.1103/PhysRevD.81.095013.](#)

Phys.Rev. D81 (2010) 095013.

[37\) Testability of Type I Seesaw at the CERN LHC: Revealing the Existence of the B-L Symmetry.](#)

By Pavel Fileviez Perez, Tao Han, Tong Li.

[10.1103/PhysRevD.80.073015.](#)

Phys.Rev. D80 (2009) 073015.

[36\) The Right Side of Tev Scale Spontaneous R-Parity Violation.](#)

By Lisa L. Everett, Pavel Fileviez Perez, Sogee Spinner.

[10.1103/PhysRevD.80.055007.](#)

Phys.Rev. D80 (2009) 055007.

[35\) On the Origin of Neutrino Masses.](#)

By Pavel Fileviez Perez, Mark B. Wise.

[10.1103/PhysRevD.80.053006.](#)

Phys.Rev. D80 (2009) 053006.

[34\) Spontaneous R-Parity Breaking in SUSY Models.](#)

By Pavel Fileviez Perez, Sogee Spinner.

[10.1103/PhysRevD.80.015004.](#)

Phys.Rev. D80 (2009) 015004.

[33\) Minimal gauged U\(1\)\(B-L\) model with spontaneous R-parity violation.](#)

By Vernon Barger, Pavel Fileviez Perez, Sogee Spinner.

[10.1103/PhysRevLett.102.181802.](#)

Phys.Rev.Lett. 102 (2009) 181802.

[32\) Triplet Scalars and Dark Matter at the LHC.](#)

By Pavel Fileviez Perez, Hiren H. Patel, Michael.J. Ramsey-Musolf, Kai Wang.

[10.1103/PhysRevD.79.055024.](#)

Phys.Rev. D79 (2009) 055024.

[31\) Spontaneous R-Parity Breaking and Left-Right Symmetry.](#)

By Pavel Fileviez Perez, Sogee Spinner.

[10.1016/j.physletb.2009.02.047.](#)

Phys.Lett. B673 (2009) 251-254.

[30\) Leptoquarks and Neutrino Masses at the LHC.](#)

By Pavel Fileviez Perez, Tao Han, Tong Li, Michael J. Ramsey-Musolf.

[10.1016/j.nuclphysb.2009.04.009.](#)

Nucl.Phys. B819 (2009) 139-176.

[29\) On the Role of Low-Energy CP Violation in Leptogenesis.](#)

By Steve Blanchet, Pavel Fileviez Perez.

[10.1142/S0217732309030862.](#)

Mod.Phys.Lett. A24 (2009) 1399-1409.

[28\) Grand Unification and Light Color-Octet Scalars at the LHC.](#)

By Pavel Fileviez Perez, Ryan Gavin, Thomas McElmurry, Frank Petriello.

[10.1103/PhysRevD.78.115017.](#)

Phys.Rev. D78 (2008) 115017.

[27\) Type III Seesaw and Left-Right Symmetry.](#)

By Pavel Fileviez Perez.

[10.1088/1126-6708/2009/03/142.](#)

JHEP 0903 (2009) 142.

[26\) Baryogenesis via Leptogenesis in Adjoint SU\(5\).](#)

By Steve Blanchet, Pavel Fileviez Perez.

[10.1088/1475-7516/2008/08/037.](#)

JCAP 0808 (2008) 037.

[25\) Neutrino Masses and the CERN LHC: Testing Type II Seesaw.](#)

By Pavel Fileviez Perez, Tao Han, Gui-yu Huang, Tong Li, Kai Wang.

[10.1103/PhysRevD.78.015018.](#)

Phys.Rev. D78 (2008) 015018.

[24\) Proton Stability, Dark Matter and Light Color Octet Scalars in Adjoint SU\(5\) Unification.](#)

By Pavel Fileviez Perez, Hoernisa Iminniyaz, German Rodrigo.

[10.1103/PhysRevD.78.015013.](#)

Phys.Rev. D78 (2008) 015013.

[23\) Testing a Neutrino Mass Generation Mechanism at the LHC.](#)

By Pavel Fileviez Perez, Tao Han, Gui-Yu Huang, Tong Li, Kai Wang.

[10.1103/PhysRevD.78.071301.](#)

Phys.Rev. D78 (2008) 071301.

22) Supersymmetric Adjoint SU(5).

By Pavel Fileviez Perez.

[10.1103/PhysRevD.76.071701](https://arxiv.org/abs/10.1103/PhysRevD.76.071701).

Phys.Rev. D76 (2007) 071701.

21) Large underground, liquid based detectors for astro-particle physics in Europe: Scientific case and prospects.

By D. Autiero et al..

[10.1088/1475-7516/2007/11/011](https://arxiv.org/abs/10.1088/1475-7516/2007/11/011).

JCAP 0711 (2007) 011.

20) Renormalizable adjoint SU(5).

By Pavel Fileviez Perez.

[10.1016/j.physletb.2007.07.075](https://arxiv.org/abs/10.1016/j.physletb.2007.07.075).

Phys.Lett. B654 (2007) 189-193.

19) Upper Bound on the Mass of the Type III Seesaw Triplet in an SU(5) Model.

By Ilja Dorsner, Pavel Fileviez Perez.

[10.1088/1126-6708/2007/06/029](https://arxiv.org/abs/10.1088/1126-6708/2007/06/029).

JHEP 0706 (2007) 029.

18) Natural gauge and gravitational coupling unification and the superpartner masses.

By David Emmanuel-Costa, Pavel Fileviez Perez, Ricardo Gonzalez Felipe.

[10.1016/j.physletb.2007.02.061](https://arxiv.org/abs/10.1016/j.physletb.2007.02.061).

Phys.Lett. B648 (2007) 60-63.

17) On unification and nucleon decay in supersymmetric grand unified theories based on SU(5).

By Ilja Dorsner, Pavel Fileviez Perez, German Rodrigo.

[10.1016/j.physletb.2007.03.062](https://arxiv.org/abs/10.1016/j.physletb.2007.03.062).

Phys.Lett. B649 (2007) 197-205.

16) Fermion masses and the UV cutoff of the minimal realistic SU(5).

By Ilja Dorsner, Pavel Fileviez Perez, German Rodrigo.

[10.1103/PhysRevD.75.125007](https://arxiv.org/abs/10.1103/PhysRevD.75.125007).

Phys.Rev. D75 (2007) 125007.

15) Unification versus proton decay in SU(5).

By Ilja Dorsner, Pavel Fileviez Perez.

[10.1016/j.physletb.2006.09.034](https://doi.org/10.1016/j.physletb.2006.09.034).

Phys.Lett. B642 (2006) 248-252.

14) Neutrino Masses in Split Supersymmetry.

By Marco Aurelio Diaz, Pavel Fileviez Perez, Clemencia Mora.

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13) Proton stability in grand unified theories, in strings and in branes.

By Pran Nath, Pavel Fileviez Perez.

[10.1016/j.physrep.2007.02.010](https://doi.org/10.1016/j.physrep.2007.02.010).

Phys.Rept. 441 (2007) 191-317.

12) Phenomenological and cosmological aspects of a minimal GUT scenario.

By Ilja Dorsner, Pavel Fileviez Perez, Ricardo Gonzalez Felipe.

[10.1016/j.nuclphysb.2006.05.006](https://doi.org/10.1016/j.nuclphysb.2006.05.006).

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11) Unification without supersymmetry: Neutrino mass, proton decay and light leptoquarks.

By Ilja Dorsner, Pavel Fileviez Perez.

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10) How large could the R-parity violating couplings be?.

By Pavel Fileviez Perez.

[10.1088/0954-3899/31/9/004](https://doi.org/10.1088/0954-3899/31/9/004).

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9) Can we distinguish between $h(\text{SM})$ and h_0 in split supersymmetry?.

By Marco Aurelio Diaz, Pavel Fileviez Perez.

[10.1088/0954-3899/31/7/003](https://doi.org/10.1088/0954-3899/31/7/003).

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8) How long could we live?.

By Ilja Dorsner, Pavel Fileviez Perez.

[10.1016/j.physletb.2005.08.039](https://doi.org/10.1016/j.physletb.2005.08.039).

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7) Could we rotate proton decay away?.

By Ilja Dorsner, Pavel Fileviez Perez.

[10.1016/j.physletb.2004.12.015](https://doi.org/10.1016/j.physletb.2004.12.015).

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6) Distinguishing between SU(5) and flipped SU(5).

By Ilja Dorsner, Pavel Fileviez Perez.

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5) Fermion mixings versus $d = 6$ proton decay.

By Pavel Fileviez Perez.

[10.1016/j.physletb.2004.06.061](https://doi.org/10.1016/j.physletb.2004.06.061).

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4) Proton decay in minimal supersymmetric SU(5).

By Borut Bajc, Pavel Fileviez Perez, Goran Senjanovic.

[10.1103/PhysRevD.66.075005](https://doi.org/10.1103/PhysRevD.66.075005).

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3) Loop induced Higgs and Z boson couplings to neutralinos and implications for collider and dark matter searches.

By A. Djouadi, Manuel Drees, P. Fileviez Perez, M. Muhlleitner.

[10.1103/PhysRevD.65.075016](https://doi.org/10.1103/PhysRevD.65.075016).

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2) Edge modes waves in superlattices in quantum Hall effect regime.

By Pavel Fileviez Perez, Alejandro Cabo Montes de Oca, Carlos Rodriguez Castellanos.

[10.1002/1521-3951\(200007\)220:1<753::AID-PSSB753>3.3.CO;2-8](https://doi.org/10.1002/1521-3951(200007)220:1<753::AID-PSSB753>3.3.CO;2-8).

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1) Two and three electrons in a quantum dot: $1/|J|$ expansion.

By Augusto Gonzalez, Ricardo Perez, P. Fileviez Perez.

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