

Pavel Fileviez Perez

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Current Position

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

Previous Positions

- 2012 - 2015 Visiting Associate, Division of Physics, Mathematics and Astronomy,
California Institute of Technology (Caltech), USA.
- 2012 - 2016 Associate Scientist, Particle and Astro-Particle Physics Division
Max Planck Institute for Nuclear Physics. Heidelberg, Germany.
- 2015 Habilitation at Heidelberg University, Germany.
- 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.

Education

- 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.

Research Interests

- Particle Physics and Cosmology
- New ideas for physics beyond the Standard Model.
- New Physics at the Large Hadron Collider.

Awards, Honors and 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.

- James Arthur Fellowship, Center for Cosmology and Particle Physics (CCPP), New York University, 2011-2012.
- Dirac Fellowship, Phenomenology Institute, University of Wisconsin-Madison, 2010.
- 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.
- 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.
- 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.
- 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.

Grants

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.

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

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

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

By Pavel Fileviez Pérez, Elliot Golias, Rui-Hao Li, Clara Murgui.
[arXiv:1810.06646 [hep-ph]].

[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.](#)

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[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.](#)

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[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](https://doi.org/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](https://doi.org/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](https://doi.org/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](https://doi.org/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](https://doi.org/10.1103/PhysRevD.78.071301).

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22) Supersymmetric Adjoint SU(5).

By Pavel Fileviez Perez.

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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://doi.org/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.](#)

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.](#)

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.](#)

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

By Ilja Dorsner, Pavel Fileviez Perez, German Rodrigo.

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[16\) Fermion masses and the UV cutoff of the minimal realistic SU\(5\).](#)

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[10.1103/PhysRevD.75.125007.](#)

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[15\) Unification versus proton decay in SU\(5\).](#)

By Ilja Dorsner, Pavel Fileviez Perez.

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[14\) Neutrino Masses in Split Supersymmetry.](#)

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

[10.1103/PhysRevD.79.013005.](#)

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[13\) Proton stability in grand unified theories, in strings and in branes.](#)

By Pran Nath, Pavel Fileviez Perez.

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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?.

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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.

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8) How long could we live?.

By Ilja Dorsner, Pavel Fileviez Perez.

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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.

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

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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.

[10.1088/0953-8984/9/40/013](https://doi.org/10.1088/0953-8984/9/40/013).

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