

John Terning
Curriculum Vitae

Address

Dept. of Physics
University of California
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Education

Ph.D. in Physics, University of Toronto, “Nonlocal models of Goldstone bosons in asymptotically free gauge theories;” advisor: Professor Bob Holdom, 1985-1990.
M.Sc. in Physics, University of Toronto, “Cosmological implications of weakly interacting massive particles;” advisor: Professor Bob Holdom, 1984-1985.
B.Sc. in Physics, University of Alberta, 1980-1984.

Professional Experience

Professor	U. of California, Davis	2008-
Associate Professor	U. of California, Davis	2005-2008
Staff Member	LANL	2001-2004
Lecturer/Researcher	Harvard University	1999-2001
Research Associate	U. of California, Berkeley	1996-1999
Research Associate	Boston University	1993-1996
Postdoctoral Fellow	Yale University	1990-1993
Teaching Assistant	University of Toronto	1984-1990

Scholarships and Fellowships

Fellow of the American Physical Society	2007-
Japan Society for the Promotion of Science Fellowship	Apr. 96
Superconducting Super Collider Fellowship	Sep. 92 - Aug. 93
Natural Sciences and Engineering Research Council of Canada (NSERC) Postdoctoral Fellowship	Sep. 90 - Aug. 92
University of Toronto Open	Sep. 89 - Dec. 89
University of Toronto Open	Sep. 88 - Aug. 89
NSERC Postgraduate Scholarship 1-4:	Sep. 84 - Aug. 88
NSERC Undergraduate Student Research Award	May 84 - Aug. 84
NSERC Undergraduate Student Research Award	May 83 - Aug. 83
University of Alberta Bursary	Sep. 82 - Apr. 83
F. A. Scherrer Bursary in Science	Sep. 81 - Apr. 82

Plenary Conference Talks

“SUSY and Confinement,” XIIth Quark Confinement and Hadron Spectrum, Maynooth Ireland, 31 July 31 to August 6, 2018.

“The AdS₄/BPS₃ Correspondence,” 26th International Conference on Supersymmetry and Unification of Fundamental Interactions, Barcelona, July 23-27, 2018.

“The AdS₄/BPS₃ Correspondence,” 9th Mathematical Physics Meeting: School and Conference on Modern Mathematical Physics, Belgrade, Serbia, Sept. 18-23, 2017.

“The Quantum Critical Higgs, LHC Run 2, Santa Fe 2016 Summer Workshop July 4-8, 2016.

“Experimental Tests of Vacuum Energy, The lesson from the first results of Run 2 of the LHC, New Physics @ Korea Institute, June 12-17, 2016.

“Inflation from Broken Scale Invariance,” Physics from Run 2 of the LHC, Jeju South Korea, Sept. 13-20 2014.

“Inflation from Broken Scale Invariance,” International Conference on New Frontiers in Physics, Crete, July 31-Aug. 6, 2014.

“Dilatons and Fine Tuning,” Beyond the Standard Model 2014, KEK Japan, March 3-7, 2014.

“Dilatons and Fine Tuning,” Beyond the Standard Model after the first run of the LHC, GGI Florence Italy, Jul. 9-12, 2013.

“Planck Data and Axions,” Fundamental Questions in Cosmology, Planck Collaboration Conference at UC Davis, May 20-24, 2013.

“A Light Composite Stop,” Frontiers Beyond the Standard Model III, U. of Minnesota, Oct. 11-13, 2012.

“Monopoles and Electroweak Symmetry Breaking,” 23rd Rencontres de Blois Particle Physics and Cosmology, May 29-June 3, 2011.

“Monopoles and Electroweak Symmetry Breaking,” 2011 Aspen Winter Conference “New Data from the Energy Frontier,” Feb. 13-18, 2011.

“Monopoles, Anomalies, and Electroweak Symmetry Breaking,” MC4BSM, Copenhagen Denmark, Apr.14-16, 2010.

“Higgsless Models,” Rencontres de Moriond, La Thuile Italy, Mar. 6-13, 2010.

“Monopoles, Anomalies, and Electroweak Symmetry Breaking,” Rencontres de Physique des Particules, Lyon France, Jan 25-27, 2010.

“The AdS/CFT/Unparticle Correspondence,” International Workshop on Supersymmetry and Supersymmetry Breaking, IPPP, Durham, UK, Apr. 20-24, 2009.

“Theoretical Summary Talk,” Aspen Winter Conference on Particle Physics, Feb. 9-14, 2009.

“The unHiggs,” Aspen Winter Conference on Particle Physics, Feb. 9-14, 2009.

“The AdS/CFT/Unparticle Correspondence,” Planck '08, Barcelona, Spain, May 19-23, 2008.

“Beyond the Standard Model,” Heraeus-Seminar Physics at the Terascale - Physikzentrum Bad Honnef, Germany, Apr. 27-30, 2008.

“Realistic Higgsless Models,” Radcliffe Institute Seminar: Higgsless Electroweak Symmetry Breaking in the LHC Era, Boston, July 31-Aug. 4, 2007.

“Unparticles,” Eötvös-Cornell 2007 Summer Workshop on Particle Theory, Budapest, Hungary, June 25-29, 2007.

“Field Theory on Multi-Throat Backgrounds,” Planck '06, Paris, France, May 29-June 2, 2006.

“The accelerated acceleration of the Universe, New Ideas Beyond the Standard Model, College of William and Mary, Oct. 8-10, 2005.

“Life without a Higgs,” CP and non-standard Higgs working group meeting, SLAC, Mar. 24-25, 2005.

“Life without a Higgs,” New Directions in Physics Beyond the Standard Model, Pisa, May 31 2-June 5, 2004.

“Life without a Higgs,” Aspen Winter Conference, Jan. 2-7, 2004.

“What’s so Little about the Little Higgs?” COSMO-03, Ambleside, UK, Aug. 25-29, 2003.

“Glueballs and AdS/CFT,” Phenomenology of Large N_c QCD,” Tempe Arizona, Jan. 8-11, 2002.

“Duality Meets Phenomenology,” SUSY 2000, CERN, June 26 - Jul. 1, 2000.

“Glueball mass spectrum from supergravity,” New Directions in QCD, Korea, June 21-25, 1999.

“Glueball mass spectrum from supergravity,” Aspen Winter Conference, Jan. 11-16, 1999.

“The End of Technicolor,” Recent Developments in Phenomenology, U. of Wisconsin-Madison, Mar. 17-19, 1997.

“Tightwad tests of technicolor,” Aspen Winter Conference, Jan. 17-23, 1994.

“An extended technicolor model,” New Physics at New Facilities, Case Western Reserve U., Oct. 15-17, 1993.

“Technicolor and precision electroweak measurements,” Aspen Winter Conference, Jan. 10-16, 1993.

“Extended technicolor model building,” International Workshop on Electroweak Symmetry Breaking, Hiroshima, Japan, Nov. 12-15, 1991.

Invited Conference Talks

“Neutron Star Mergers Chirp About Vacuum Energy,” XIIth Quark Confinement and Hadron Spectrum, Maynooth Ireland, 31 July 31 to August 6, 2018.

“Life without a Higgs,” APS Meeting, Denver, May 1-4, 2004.

“Beyond Orbifolds: Life without a Higgs,” Quantum Theory and Symmetries, U. of Cincinnati, Sep. 10-14, 2003.

“Dimming Extragalactic Supernovae via Axions,” COSMO-02, Chicago, Illinois, Sep. 18-21, 2002.

“Single sector supersymmetry breaking,” Division of Particles and Fields, Los Angeles, Jan. 5-9, 1999.

“Glueball Mass Spectrum from Supergravity,” Division of Particles and Fields, Los Angeles, Jan. 5-9, 1999.

“Comments on technicolour model building,” Beyond the Standard Model III, Carleton U., Ottawa, Canada, June 22-24, 1992.

“Mass enhancement and critical behavior in technicolor theories,” The Vancouver Meeting: Particles and Fields '91, Vancouver, Canada, Aug. 18-22, 1991.

Summer School Lectures

- “Introduction to Supersymmetry,” Pre-SUSY International School, Barcelona, July 17-20, 2018.
- “The Theory of Mass Generation,” Maria Laach School for High Energy Physics, Maria Laach Abbey, Germany, Sept. 2013.
- “Beyond the Standard Model,” Physics at TeV colliders: from Tevatron to LHC, Cargese France, July 2010.
- “The Standard Model,” CERN Summer Program, June 2010.
- “Introduction to Compositeness, Strong Electroweak Symmetry Breaking and Extended Gauge Theories,” PSI: New Ideas in Particle Physics, Zuz, Switzerland, July 13 to 19, 2008
- “SUSY Gauge Theories,” Perimeter Institute: Strings, Gravity and Cosmology, U. of British Columbia, Vancouver, Canada Aug. 2006.
- “Particle Cosmology” Santa Fe Cosmology Workshop, July 2002.
- “Non-perturbative Methods in Supersymmetry,” TASI, June 2002.

Colloquia

- “Quantum Phase Transitions and the Higgs”, Cornell, Nov. 16, 2015.
- “Quantum Phase Transitions and the Higgs,” ETH Zurich, Nov. 9, 2014.
- “The Origin of Mass,” Technion, Israel, Nov. 4, 2013.
- “Alternatives to the Standard Model Higgs,” U. Valencia, Spain, Feb. 16, 2010.
- “Extra Dimensions,” U. Oregon, Nov. 29, 2007.
- “Extra Dimensions,” U. Connecticut, Mar. 30, 2007.
- “Extra Dimensions,” UC Irvine, Feb. 1, 2007.
- “Axion Cosmology,” University of Pittsburgh, Apr. 10, 2002.

Seminars

- “Resolving the Weinberg Paradox with Topology,” UC Santa Cruz, Oct. 22, 2018.
- “Resolving the Weinberg Paradox with Topology,” U. of Oregon, Oct. 9, 2018.
- “Resolving the Weinberg Paradox with Topology,” UC Berkeley, Oct. 1, 2018.
- “Neutron Star Mergers Chirp About Vacuum Energy,” U. of Pittsburgh, Feb. 28, 2018.
- “Little Conformal Symmetry,” Cornell, Oct. 26, 2017.
- “The AdS 4/BPS 3 Correspondence,” U. Toronto May. 29, 2017.
- “Experimental Tests of Vacuum Energy,” Boston U., Sep. 30, 2016.
- “S-Duality and Helicity Amplitudes,” U. Maryland, Oct. 10, 2016.
- “S-duality and Helicity Amplitudes,” Perimeter Institute, Waterloo, Canada Mar. 11, 2016.
- “The Quantum Critical Higgs, SLAC Feb. 19, 2016.
- “Experimental Tests of Vacuum Energy, LBNL Feb. 3, 2016.
- “The Quantum Critical Higgs,” U. of Toronto, Nov. 13, 2015.
- “Experimental Tests of Vacuum Energy,” NYU, Oct. 8, 2015.
- “Experimental Tests of Vacuum Energy,” U. of Minnesota, Sep. 18, 2015.
- “The Quantum Critical Higgs,” Munich Institute for Astro and Particle Physics, Jul. 20, 2015.

“The Quantum Critical Higgs,” Harvard U., Feb. 24, 2015.
 “Experimental Tests of Vacuum Energy,” Stanford U., Feb. 12, 2015.
 “The Quantum Critical Higgs,” UC Irvine, Feb. 4, 2015.
 “The Quantum Critical Higgs,” Cornell, Nov. 21, 2014.
 “The Quantum Critical Higgs,” Perimeter Institute, Waterloo Canada, Nov. 14, 2014.
 “The Quantum Critical Higgs,” NYU, Nov. 12, 2014.
 “Seiberg-Witten Theory,” U. Autònoma Barcelona, Spain, Oct. 17, 2014.
 “Seiberg Duality,” U. Autònoma Barcelona, Spain, Oct. 16, 2014.
 “Planck Data and Axions,” Cornell, Nov. 13, 2013.
 “Dilaton and Fine Tuning,” Newe Shalom, Israel, Nov. 5, 2013.
 “Dilaton and Fine Tuning,” Boston U., Oct. 9, 2013.
 “Dilaton and Fine Tuning,” Aspen Center for Physics, Aug. 13, 2013.
 “Dilaton and Fine Tuning,” SLAC, May 1, 2013.
 “Dilaton and Fine Tuning,” Cornell, Mar. 27, 2013.
 “A Light Composite Stop,” Fermilab, Oct 10, 2012.
 “A Light Composite Stop,” U. of Oregon, Sep. 25, 2012.
 “A Light Composite Stop,” SLAC, Stanford, Dec. 2, 2011.
 “Monopoles and Electroweak Symmetry Breaking,” Dirac Lecture, Florida State University, Tallahassee, Nov. 30, 2011,
 “Seiberg-Witten Monopoles,” Dirac Lecture, Florida State University, Tallahassee, Nov. 29, 2011,
 “Electric-Magnetic Duality to Seiberg Duality,” Dirac Lecture, Florida State University, Tallahassee, Nov. 28, 2011.
 “A Light Composite Stop,” Cornell, Nov. 18, 2011.
 “Monopoles and Electroweak Symmetry Breaking,” Institute for Advanced Study, Princeton, Oct. 27, 2011.
 “Monopoles and Electroweak Symmetry Breaking,” U. Pittsburgh, Oct. 25, 2011.
 “Unitarity and Nonlinear Boundary Conditions,” Cornell, Mar. 16, 2011.
 “Monopoles, Anomalies, and Electroweak Symmetry Breaking,” Cornell, Nov. 23, 2010.
 “Monopoles, Anomalies, and Electroweak Symmetry Breaking,” UC Berkeley, Sep. 20, 2010.
 “Monopoles, Anomalies, and Electroweak Symmetry Breaking,” U. Southampton, England, Apr. 26, 2010.
 “Monopoles, Anomalies, and Electroweak Symmetry Breaking,” EPFL, Lausanne Switzerland, Apr. 26, 2010.
 “Monopoles, Anomalies, and Electroweak Symmetry Breaking,” U. di Roma La Sapienza, Italy, Apr. 23, 2010.
 “Monopoles, Anomalies, and Electroweak Symmetry Breaking,” U. Warsaw, Poland, Apr. 19, 2010.
 “Monopoles, Anomalies, and Electroweak Symmetry Breaking,” CERN, Feb 5, 2010.
 “Monopoles, Anomalies, and Electroweak Symmetry Breaking,” SLAC, Dec. 4, 2009.
 “Unparticles,” Cornell U., Sep. 23, 2009.
 “The AdS/CFT/Unparticle Correspondence,” UC Irvine, Apr. 8, 2009.
 “The AdS/CFT/Unparticle Correspondence,” Harvard U., Sep.. 16, 2008.

“Unparticles or Just Un-physics?” UC Berkeley, Sep. 17, 2007.
 “The Gaugephobic Higgs,” Caltech, April 23, 2007.
 “Realistic Higgsless Models,” U. Toronto., Sep. 11, 2006.
 “Field Theory on Multi-Throat Backgrounds,” SLAC, Apr. 21, 2006.
 “The Accelerated Acceleration of the Universe,” Cornell U., Sep. 21, 2005.
 “Life without a Higgs,” UC Berkeley, May. 2, 2005.
 “Life without a Higgs,” KITP Santa Barbara, Dec. 14, 2004.
 “Life without a Higgs,” Greater Chicagoland High Energy Seminar, Northwestern U., Nov. 1, 2004.
 “Life without a Higgs,” UC Santa Cruz, Mar. 29, 2004.
 “Life without a Higgs,” Michigan State U., Mar. 17, 2004.
 “A new phase of SUSY gauge theories,” U. Washington, Seattle, Mar. 9, 2004.
 “Life without a Higgs,” U. Texas Austin, Feb. 24, 2004.
 “Life without a Higgs,” Argonne National Lab., Nov. 11, 2003.
 “Life without a Higgs,” Harvard U., Oct.. 22, 2003.
 “Life without a Higgs,” Yale U., Oct.. 15, 2003.
 “Beyond Orbifolds: Life without a Higgs,” Aspen July 1, 2003.
 “Beyond Orbifolds: Life without a Higgs,” U.C. Davis May 23, 2003.
 “Beyond Orbifolds: Life without a Higgs,” U.C. Berkeley May 19, 2003.
 “Extra Dimensions: A Reality Check,” Boston U., Oct. 23, 2002.
 “Extra Dimensions: A Reality Check,” Yale U., Oct. 23, 2002.
 “Dimming Supernaovae by Axions,” U. Maryland, Apr. 29, 2002.
 “The Randall-Sundrum Model and Electroweak Physics,” Cornell U. Apr. 23, 2002.
 “Dimming Supernaovae by Axions,” SLAC, Feb. 27, 2002.
 “Dimming Supernaovae by Axions,” U.C. Berkeley, Nov. 19, 2001.
 “S-color and the μ problem,” U. of Toronto, May. 31, 2001.
 “Supersymmetric electroweak symmetry breaking,” Yale, Sep. 26, 2000.
 “Holographic RG and Cosmology,” Aspen, Aug. 22, 2000.
 “Holographic RG and Cosmology,” Los Alamos/Santa Fe Workshop, Aug. 8, 2000.
 “Holographic RG and Cosmology,” CERN, Jul. 5, 2000.
 “Holographic RG and Cosmology,” McGill, Apr.18, 2000.
 “Holographic RG and Cosmology,” U. of Cincinnati, May 22, 2000.
 “Supersymmetric electroweak symmetry breaking,” Boston U., Mar. 22, 2000.
 “Supersymmetric electroweak symmetry breaking,” William and Mary, Mar. 17, 2000.
 “Supersymmetric electroweak symmetry breaking,” Los Alamos, Feb. 28, 2000.
 “Orbifolds and the hierarchy problem,” SLAC, Aug. 2, 1999.
 “Single sector supersymmetry breaking,” Harvard U., Feb. 24, 1999.
 “Glueball mass spectrum from supergravity,” MIT, Feb. 22, 1999.
 “Glueball mass spectrum from supergravity,” U. Arizona, Jan. 26, 1999.
 “Glueball mass spectrum from supergravity,” U.C. Irvine, Nov. 24, 1998.
 “Glueball mass spectrum from supergravity,” U.C. San Diego, Jun. 22, 1998.
 “Glueball mass spectrum from supergravity,” Stanford, Jun. 18, 1998.
 “Composite quarks and leptons from dynamical SUSY breaking,” U.C. Santa Cruz, Jun. 4, 1998.

“Composite quarks and leptons from dynamical SUSY breaking,” U. Oregon, Jun. 2, 1998.
 “Composite quarks and leptons from dynamical SUSY breaking,” U. Rochester, May 11, 1998.
 “Composite quarks and leptons from dynamical SUSY breaking,” Yale, April 21, 1998.
 “Composite quarks and leptons from dynamical SUSY breaking,” Fermilab, Feb. 26, 1998.
 “Composite quarks and leptons from dynamical SUSY breaking,” Michigan State U., Feb. 24, 1998.
 “Composite quarks and leptons from dynamical SUSY breaking,” Carnegie Mellon, Feb. 23, 1998.
 “Composite quarks and leptons from dynamical SUSY breaking,” U. Michigan, Feb. 19, 1998.
 “Composite quarks and leptons from dynamical SUSY breaking,” SUNY Stony Brook, Feb. 2, 1998.
 “New mechanisms of dynamical SUSY breaking and direct gauge mediation,” Stanford, Nov. 24, 1997.
 “New mechanisms of dynamical SUSY breaking and direct gauge mediation,” U.C. Davis, Oct. 7, 1997.
 “The zero temperature chiral phase transition in QCD,” Rutgers, May 20, 1997.
 “The zero temperature chiral phase transition in QCD,” IAS, Princeton, May 19, 1997.
 “Self-duality and the confinement Transition,” U. Toronto, Mar. 21, 1997.
 “The zero temperature chiral phase transition in QCD,” U. Washington, Mar. 11, 1997.
 “Self-duality and the confinement Transition,” U.C. San Diego, Feb. 24, 1997.
 “Self-duality and the confinement Transition,” Yale, Feb. 14, 1997.
 “The zero temperature chiral phase transition in QCD,” Kanazawa U., Apr. 22, 1996.
 “SUSY duals with adjoint matter,” Tokyo Metropolitan U., Apr. 19, 1996.
 “The zero temperature chiral phase transition in QCD,” KEK, Japan, Apr. 18, 1996.
 “The zero temperature chiral phase transition in QCD,” Tohoku U., Apr. 16, 1996.
 “The zero temperature chiral phase transition in QCD,” Nagoya U., Apr. 10, 1996.
 “SUSY duals with adjoint matter,” Nagoya U., Apr. 9, 1996.
 “SUSY duals with adjoint matter,” Kyoto U., Apr. 4, 1996.
 “SUSY duals with adjoint matter,” U. Cincinnati, Feb. 26, 1996.
 “The zero temperature chiral phase transition in QCD,” Fermilab, Feb. 15, 1996.
 “SUSY duals with adjoint matter,” Harvard, Feb. 7, 1996.
 “Phase transitions in particle physics,” Duke, Feb. 5, 1996.
 “Precision electroweak measurements,” Ohio State U., Feb. 15, 1995.
 “Precision electroweak measurements,” McGill, Feb. 10, 1995.
 “Symmetry breaking in three dimensional QED,” Harvard, Jan. 11, 1995.
 “Precision electroweak measurements and technicolor,” U.C. Santa Cruz, Nov. 8, 1994.
 “Precision electroweak measurements and technicolor,” LBNL, Nov. 4, 1994.
 “Precision electroweak measurements and technicolor,” Brookhaven, Nov. 2, 1994.
 “Low energy tests of technicolor,” ITP, Santa Barbara, Mar. 14, 1994.
 “Low energy tests of technicolor,” MIT, Apr. 20, 1994.
 “Low energy tests of technicolor,” Columbia, Feb. 23, 1994.
 “Extended technicolor and neutrinos,” Carnegie Mellon, Oct. 13, 1993.

“Extended technicolor and precision electroweak measurements,” U.C. Santa Cruz, Nov. 24, 1992.

“A chiral Lagrangian from quarks with dynamical masses,” U. Cincinnati, May 15, 1992.

“Monopole non-annihilation at the electroweak scale,” U. Cincinnati, May 18, 1992.

“Extended technicolor model building,” Nagoya U., Nov. 18, 1991.

“A chiral Lagrangian from quarks with dynamical masses,” CEBAF, Newport News, May 31, 1991.

“A chiral Lagrangian from quarks with dynamical masses,” U. Mass.-Amherst, Nov. 13, 1990.

“A chiral Lagrangian from quarks with dynamical masses,” ITP, Santa Barbara, June 20, 1990.

“A model for low-energy QCD,” TRIUMF, Vancouver, Feb. 6, 1990.

Additional Activities

“23rd International Conference on Supersymmetry and Unification of Fundamental Interactions,” (Co-organizer) Granlibakken, Lake Tahoe, Aug. 2015.

“Gunion Fest,” (Co-organizer) UC Davis, Mar. 2014.

“The LHC Higgs Signal: Fits, Models and BSM Implications,” (Co-organizer) UC Davis, Apr. 2013.

“Dark Matter in Collision,” (Co-organizer) UC Davis, Apr. 2012.

“Hidden SUSY,” (Co-organizer) UC Davis, Nov. 2011.

“SUSY-Recast,” (Co-organizer) UC Davis, Apr. 2011.

“The Tau Portal,” (Co-organizer) UC Davis, Apr. 2011.

“Top @ Tevatron 4 LHC,” (Co-organizer) UC Davis, Nov. 2009.

“The Particle Cosmology Frontier,” (Co-organizer) UC Davis, May 2009.

“MC4BSM,” (Co-organizer) UC Davis, Apr. 2009.

“Missing Energy,” (Co-organizer) UC Davis, Apr. 2009.

“LHC New Physics Forum,” (Co-organizer) Heidelberg, Feb 2009.

“New Paradigms for Dark Matter,” (Co-organizer) UC Davis, Dec. 2008.

“Finding the Hidden, Light Higgs,” (Co-organizer) UC Davis, May 2008.

“Detecting the Unexpected,” (Co-organizer) UC Davis, Nov. 2007.

“Revealing the Nature of Electroweak Symmetry Breaking,” Aspen Winter Conference, (Co-organizer) Jan. 2008.

“West Coast LHC Meeting,” (Co-organizer) UC Davis, Dec. 2006.

“New Approaches to Electroweak Symmetry Breaking,” Aspen Summer Workshop (Co-organizer) June 2005.

“Beyond the Higgs,” Santa Fe Summer Workshop (Co-organizer) Aug. 2004.

“Physics in $D \geq 4$,” TASI (Co-organizer), Boulder CO, June 2004.

“Extra Dimensions and Beyond” Santa Fe Summer Workshop (Co-organizer) Aug. 2002.

Publications

- 1) J. Terning and C. B. Verhaaren, “Resolving the Weinberg Paradox with Topology,” arXiv:1809.05102 [hep-th].
- 2) J. Terning and C. B. Verhaaren, “Dark Monopoles and $SL(2, Z)$ Duality,” arXiv:1808.09459 [hep-th].
- 3) M. Tanabashi *et al.* [Particle Data Group], “Review of Particle Physics,” Phys. Rev. D **98** (2018) no.3, 030001.
- 4) C. Csáki, C. Erncel, J. Hubisz, G. Rigo and J. Terning, “Neutron Star Mergers Chirp About Vacuum Energy,” JHEP **1809** (2018) 087; arXiv:1802.04813 [astro-ph.HE].
- 5) C. Csáki, M. Martone, Y. Shirman and J. Terning, “Pre-ADS Superpotential from Confined Monopoles,” JHEP **1805** (2018) 188; arXiv:1711.11048 [hep-th].
- 6) F. Abu-Ajamieh, J. S. Lee and J. Terning, “The Light Radion Window,” JHEP **1810** (2018) 050; arXiv:1711.02697 [hep-ph].
- 7) N. Kaloper and J. Terning, “Landscaping the Strong CP Problem,” arXiv:1710.01740 [hep-th].
- 8) C. Csáki, Y. Shirman, J. Terning and M. Waterbury, “Twisted Sisters: KK Monopoles and their Zero Modes,” Phys. Rev. Lett. **120** (2018) 071603; arXiv:1708.03330 [hep-th].
- 9) C. Patrignani *et al.* [Particle Data Group], “Review of Particle Physics,” Chin. Phys. C **40** (2016) no.10, 100001.
- 10) R. Houtz, K. Colwell and J. Terning, “Little Conformal Symmetry,” JHEP **1609** (2016) 149 arXiv:1603.00030 [hep-ph].
- 11) C. Csáki, J. Hubisz, S. Lombardo and J. Terning, “Gluon vs. Photon Production of a 750 GeV Diphoton Resonance,” Phys. Rev. D **93** (2016) no.9, 095020, arXiv:1601.00638 [hep-ph].
- 12) C. Csáki, J. Hubisz and J. Terning, “Minimal model of a diphoton resonance: Production without gluon couplings,” Phys. Rev. D **93** (2016) no.3, 035002, arXiv:1512.05776 [hep-ph].
- 13) C. Csáki, C. Grojean and J. Terning, “Alternatives to an Elementary Higgs,” Rev. Mod. Phys. **88** (2016) no.4, 045001 arXiv:1512.00468 [hep-ph].
- 14) B. Bellazzini, C. Csáki, J. Hubisz, S. J. Lee, J. Serra and J. Terning, “The Quantum Critical Higgs,” Phys. Rev. X **6** (2016) 041050 arXiv:1511.08218 [hep-ph].
- 15) K. F. Cleary and J. Terning, “A Light Stop with a Heavy Gluino: Enlarging the Stop Gap,” JHEP **1605** (2016) 151, arXiv:1511.08216 [hep-ph].
- 16) K. F. Cleary and J. Terning, “Marginal Breaking of Conformal SUSY QCD,” JHEP **1607** (2016) 096, arXiv:1510.08065 [hep-th].
- 17) K. Colwell and J. Terning, “S-Duality and Helicity Amplitudes,” JHEP **1603** (2016) 068, arXiv:1510.07627 [hep-th].
- 18) B. Bellazzini, C. Csáki, J. Hubisz, J. Serra and J. Terning, “Cosmological and Astrophysical Probes of Vacuum Energy,” JHEP **1606** (2016) 104, arXiv:1502.04702 [astro-ph.CO].
- 19) K. A. Olive *et al.* [Particle Data Group Collaboration], “Review of Particle Physics,” Chin. Phys. C **38** (2014) 090001.
- 20) C. Csáki, M. Martone, Y. Shirman, P. Tanedo and J. Terning, “Dynamics of

- 3D SUSY Gauge Theories with Antisymmetric Matter,” JHEP **1408** (2014) 141, arXiv:1406.6684 [hep-th].
- 21) C. Csáki, N. Kaloper, J. Serra and J. Terning, “Inflation from Broken Scale Invariance,” Phys. Rev. Lett. **113** (2014) 161302, arXiv:1406.5192 [hep-th].
 - 22) C. Csáki, N. Kaloper and J. Terning, “Planck Data and Ultralight Axions,” JCAP **1506** (2015) 06, 041 arXiv:1405.1725 [astro-ph.CO].
 - 23) B. Bellazzini, C. Csáki, J. Hubisz, J. Serra and J. Terning, “A Naturally Light Dilaton and a Small Cosmological Constant,” Eur. Phys. J. C **74** (2014) 2790, arXiv:1305.3919 [hep-th].
 - 24) B. Bellazzini, C. Csáki, J. Hubisz, J. Serra and J. Terning, “A Higgslike Dilaton,” Eur. Phys. J. C **73** (2013) 2333, arXiv:1209.3299 [hep-ph].
 - 25) J. Beringer *et al.* [Particle Data Group Collaboration], “Review of Particle Physics (RPP),” Phys. Rev. D **86** (2012) 010001.
 - 26) B. Bellazzini, C. Csáki, J. Hubisz, J. Serra and J. Terning, “Composite Higgs Sketch,” JHEP **1211** (2012) 003, arXiv:1205.4032 [hep-ph].
 - 27) C. Englert, D. G. Netto, M. Spannowsky and J. Terning, “Constraining the Unhiggs with LHC data,” Phys. Rev. D **86** (2012) 035010, arXiv:1205.0836 [hep-ph].
 - 28) C. Englert, M. Spannowsky, D. Stancato and J. Terning, “Unconstraining the Unhiggs,” Phys. Rev. D **85** (2012) 095003, arXiv:1203.0312 [hep-ph].
 - 29) C. Csáki, L. Randall and J. Terning, “Light Stops from Seiberg Duality,” Phys. Rev. D **86** (2012) 075009, arXiv:1201.1293 [hep-ph].
 - 30) C. Csáki, D. Curtin, V. Rentería, Y. Shirman and J. Terning, “Supersymmetry Breaking Triggered by Monopoles,” Phys. Rev. D **85** (2012) 045014 arXiv:1108.4415 [hep-th].
 - 31) H. Cai, H. -C. Cheng, A. D. Medina and J. Terning, “SUSY Hidden in the Continuum,” Phys. Rev. D **85** (2012) 015019, arXiv:1108.3574 [hep-ph].
 - 32) C. Csáki, Y. Shirman and J. Terning, “A Seiberg Dual for the MSSM: Partially Composite W and Z,” Phys. Rev. D **84** (2011) 095011, arXiv:1106.3074 [hep-ph].
 - 33) K. Nakamura *et al.* [Particle Data Group Collaboration], “Review of particle physics,” J. Phys. G **G37**, 075021 (2010).
 - 34) C. Csáki, Y. Shirman, J. Terning, “Electroweak Symmetry Breaking From Monopole Condensation,” Phys. Rev. Lett. **106**, 041802 (2011), arXiv:1003.1718 [hep-ph].
 - 35) C. Csáki, Y. Shirman and J. Terning, “Anomaly Constraints on Monopoles and Dyons,” Phys. Rev. D **81** (2010) 125028, arXiv:1003.0448 [hep-th].
 - 36) D. Stancato and J. Terning, “Constraints on the Unhiggs Model from Top Quark Decay,” Phys. Rev. D **81** (2010) 115012, arXiv:1002.1694 [hep-ph].
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