Yue Zhao

Physics & Astronomy Department University of Utah 115 South 1400 East #201

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PROFESSIONAL POSITIONS

Salt Lake City, UT 84112

- 2018-present, Assistant Professor, University of Utah
- 2015-2018, Postdoc, MCTP, University of Michigan
- 2012-2015, Research Associate, SITP/SLAC, Stanford University
- 2009-2012, Graduate Assistant, Department of Physics, Rutgers University
- 2007-2008 Teaching Assistant, Department of Physics and Astronomy, Rutgers University

PROFESSIONAL MEMBERSHIP

• 2019-present, LIGO Scientific Collaboration, PI of the Utah-LIGO Group

EDUCATION

• Ph.D. in High Energy Physics

Department of Physics, Rutgers University, 2012

Advisor: Scott Thomas

• B.S. in Physics

Department of Physics, Peking University, Beijing, China, 2007

INSPIRES:

http://inspirehep.net/author/profile/Yue.Zhao.1

RESEARCH INTERESTS

- Dark Matter Searches
- High Energy Phenomenology and Model Building
- Gravitational Wave
- AdS/CFT and its Applications

TEACHING EXPERIENCE

• Courses: 7220 Quantum mechanics I (3 times)

5450 Introduction to Quantum Mechanics (twice)

3740 Introduction to Relativity and Quantum Mechanics (once)

2710 Phys III-Modern Physics (once)

ACCESS summer program

Teaching Assistant at Rutgers University, 2007-2008

GRANT

• The Gordon and Betty Moore Foundation Fundamental Physics Innovation Awards (Visitor Award), APS

\$8K, 2021, The Gordon and Betty Moore Foundation & APS

DOE

FY 2019 Research Opportunities in High Energy Physics

Novel strategies to identify dark matter and new physics beyond the Standard Model

\$102K, 2019-2020, Department of Energy

\$102K, 2020-2021, Department of Energy

\$112K, 2021-2022, Department of Energy

FY 2022 Research Opportunities in High Energy Physics

DESI Experimental Studies and Novel Searches For New Physics at the University of Utah

\$110K, 2022-2023, Department of Energy

\$120K, 2023-2024, Department of Energy

\$130K, 2024-2025, Department of Energy

• Research Incentive Seed Grant

Using Gravitational Wave Detector to Look for Dark Photon Dark Matter

\$20K, 2019-2020, University of Utah

ACADEMIC HONORS

- The Gordon and Betty Moore Foundation Fundamental Physics Innovation Awards (Visitor Award), APS
- **DOE fellowship,** Rutgers University, 2010 2012
- Innovation Award, Peking University, 2007

- Outstanding Undergraduate Research Paper, Peking University, 2007
- Research Scholarship from President Foundation, Peking University, 2007
- Research Scholarship from President Foundation, Peking University, 2006

POSTDOCS & STUDENTS

• Current Postdoc: Ben Sheff, Natalia Tapia Arellano

• Former Postdoc: Bartosz Fornal (Faculty @ Barry University)

Huaike Guo (Faculty @ ICTP-AP)

Ph.D. Student: Samuel Liebersbach (Ph.D. @ University of Utah)

Fengwei Yang (postdoc @ University of Florida)

• **Master Student:** Chonghuan Li (industry)

• **Undergraduate Student:** Maria Stokes (intern @ American Institute of Physics)

Hoang Nguyen Long (industry)

Grace Bramlage (B.S. @ University of Utah)
Bella Coronado (B.S. @ University of Utah)

Isaac Martin (Ph.D. @ UT-Austin)

Abel Shiferaw (REU student, Ph.D, @ UC Berkeley)

PROFESSIONAL SERVICE

Departmental Services

- Theory (HET/CMT) Faculty Search Committee, 2021-2022
- High Energy Theory Faculty Search Committee, 2019-2020
- Multi-Messenger Astronomy Faculty Search Committee, 2019-2020
- Graduate Admissions and Recruitment, 2019, 2020, 2022
- Graduate Comprehensive Exam Committee 2021, 2022
- Department colloquium committee, 2019, 2021
- Departmental Future's Committee, 2021
- Committee to initiate the PANDA Network, 2022
- Contribute to the undergraduate curriculum reform, 2022
- Master of Science for Secondary School Teachers program

Graduate committee, 2018

HEAP seminar committee

Chair, 2021; Member, 2022

Gravitational Wave Journal Club

Organizer, 2020

• HEP & Cosmic Ray Journal Club

Organizer, 2019

Searching for new physics - Leaving no stone unturned!

Workshop Organizer, University of Utah, Aug. 4-10, 2019

College Services

ACCESS program

Instructor, 2021

ACCESS Scholars Selection Committee, 2023

ACCESS Liaison, the Department of Physics and Astronomy, 2023-2024

College of Science Council

Representative, the Department of Physics and Astronomy, 2023

College of Science Seed Grant Panel, University of Utah

Panelist, 2020

• EDGES fellowship program

Reviewer, 2020

External Services

DOE grant review

Panelist

Utah-LIGO group

PI of the group, 2019-present

Local Organizing Committee for NuFACT2022

Co-Chair, 2022

Journal Referee

Journal of High Energy Physics, Modern Physics Letters A, Nuclear Physics B,

International Journal of Modern Physics A, Journal of Cosmology and Astroparticle Physics,

Annals of Physics, Chinese Physics C/Letter, The European Physical Journal C

Dark Odyssey 2020: Gravitational-Wave Probes of Dark Universe

International Organizer, Seoul National University, Korea, Jan. 4-7, 2020

DM: WIMP and beyond

Workshop Organizer, T. D. Lee Institute, May 17-18, 2017

Beyond the Standard Model Workshop

Workshop Organizer, MCTP, October 10 - 12, 2016

Brown Bag Seminars at MCTP

INVITED TALKS

- Stringent axion constraints with EHT polarimetric measurements of M87*

 LCTP Symposium on Astrophysical Signatures of Dark Matter, University of Michigan, 2023
- Searching for ultralight dark matter candidates at the precision frontier

 Symposium on Illuminating Dark Matter, Simons Foundation, Germany, 2023
- Stringent axion constraints with EHT polarimetric measurements of M87* distinguished Lecture, International Congress of Basic Science, 2023
- Probing Axions with Event Horizon Telescope Polarimetric Measurements theory seminar, University of Minnesota, 2023
- Probing Axions with Event Horizon Telescope Polarimetric Measurements theory seminar, University of Florida, 2022
- Searching for ultralight dark matter candidates at the precision frontier theory seminar, Southern University of Science and Technology, 2022
- Astrophysical Probes to New Physics Beyond the Standard Model theory seminar, University of Chongqing, 2022
- Searching for ultralight dark matter candidates at the precision frontier

 Summer school for New Physics and Dark Matter, Nanjing Normal University, 2022
- Stringent axion constraints with EHT polarimetric measurements of M87* theory seminar at the astro group meeting, MIT, 2021
- Probing Axions with Event Horizon Telescope Polarimetric Measurements theory seminar, Texas A&M University, 2021
- Astrophysical Probes to New Physics Beyond the Standard Model
 Colloquium, Brigham Young University, 2021
- Astrophysical Probes to New Physics Beyond the Standard Model Colloquium, Syracuse university, 2021
- Astrophysical Probes to New Physics Beyond the Standard Model Colloquium, Nanjing University, 2020
- Searching for axion-like particles using black holes and pulsars theory seminar, Tsinghua University, 2020
- Probing Axions with Event Horizon Telescope Polarimetric Measurements theory seminar, Shanghai Astronomical Observatory,, 2020
- Exotic Searches at LXe Experiments

 DM detection and neutrino physics with LXe experiment workshop, China, 2020

- Producing and detecting long-lived particles at different experiments at the LHC
 The 7th LHC LLP Community workshop, CERN (virtual), 2020
- Searching for Dark Photon DM with GW Detectors, O1 and beyond

 Plenary Talk, XIV International Particle Physics and Cosmology Conference, US, 2020
- Searching for axion-like particles using black holes and pulsars theory seminar, University of Oregon, 2020
- Searching for Dark Photon DM with GW Detectors, O1 and beyond

 Dark Odyssey 2020: Gravitational-Wave Probes of Dark Universe, SNU, Korea, 2020
- Searching for Dark Photon DM with GW Detectors, O1 and beyond theory seminar, Arizona State University, 2019
- Searching for Dark Photon DM with GW Detectors, O1 and beyond Plenary Talk, DM@LHC2019, Seattle, Washington, U.S., 2019
- Searching for Dark Photon DM with GW Detectors, O1 and beyond Plenary Talk, FLASY2019, Shanghai, China, 2019
- Searching for axion-like particles using black holes and pulsars theory seminar, Fudan University, 2019
- Searching for axion-like particles using black holes and pulsars theory seminar, Zhejiang University, 2019
- Searching for Dark Photon DM with GW Detectors, O1 and beyond

 Searching for New Physics on the Horizon, New Physics @ Korea Institute, 2019
- Searching for Dark Photon DM with GW Detectors, O1 and beyond BSM Weak Scale, MIAPP, Munich, Germany, 2019
- Searching for Dark Photon DM with GW Detectors, O1 and beyond theory seminar, Peking University, 2019
- Searching for axion-like particles using black holes and pulsars theory seminar, Institute of High Energy Physics-CAS, 2019
- Searching for Dark Photon DM with GW Detectors, O1 and beyond theory seminar, LBNL, 2019
- Searching for Dark Photon Dark Matter with Gravitational Wave Detectors

 PITT PACC Workshop: BSM circa 2020, University of Pittsburg, 2019
- Searching for Dark Photon Dark Matter with Gravitational Wave Detectors

 TRIUMF Theory Workshop on Dark Matter Signals, TRIUMF, 2019
- Searching for Dark Photon Dark Matter with Gravitational Wave Detectors theory seminar, Harvard University, 2018

• Searching for Confining Hidden Valleys at the LHC(b)

theory seminar, Nanjing University, China, 2018

• Searching for Dark Photon Dark Matter with Gravitational Wave Detectors

theory seminar, Institute of High Energy Physics, China, 2018

• Searching for Dark Photon Dark Matter with Gravitational Wave Detectors

International Workshop on "Physics Beyond the Standard Model", T.D.L. Institute, 2018

Dark Matter Beyond Weakly Interacting Massive Particles

Colloquium, University of Utah, 2018

Searching for Confining Hidden Valleys at the LHC(b)

Scalars 2017, Warsaw, Poland, 2017

• Searching for Confining Hidden Valleys at the LHC(b)

Implications of LHCb measurements and future prospects, CERN, 2017

Using LISA-like Gravitational Wave Detector to Search for Primordial Black Holes

27th Midwest Relativity Meeting, MCTP, University of Michigan, 2017

Searching for Confining Hidden Valleys at the LHC(b)

theory seminar, Perimeter Institute, 2017

Boosted dark matter signatures at neutrino experiments

NUFACT2017, Uppsala University, Sweden, 2017

Hidden Valley search at the LHCb

New Physics Interpretations at the LHC 2, Argonne National Lab, 2017

Neutrino Experiments For DM Detection

theory seminar, Northwestern University, 2017

Hidden Valley search at the LHCb

theory seminar, Cornell University,, US, 2017

Hidden Valley search at the LHCb

theory seminar, University of Wisconsin - Madison, US, 2017

· Probing dark matter self-interactions at the LHC

LHCP, Shanghai Jiao Tong University, China, 2017

Naturalness from a Composite Top?

theory seminar, Argonne National Lab, US, 2017

• Neutrino experiments for dark matter direct detection

Beyond WIMPs: from Theory to Detection, Stony Brook University-SUNY, US, 2017

• DM scattering in superconductors

New Ideas in Dark Matter workshop, Maryland University, 2017

Dark Matter Beyond Weakly Interacting Massive Particle

theory seminar, Tsinghua University, Beijing, China, 2017

Neutrino Experiments For DM Detection

theory seminar, Peking University, Beijing, China, 2017

Dark Matter Beyond Weakly Interacting Massive Particle

theory seminar, ITP-CAS, Beijing, China, 2017

Neutrino Experiments For DM Detection

theory seminar, T.D.Lee Institute, Shanghai, China, 2017

Being Flat With No Symmetries

theory seminar, FermiLab, USA, 2017

• Neutrino Experiments For DM Detection

theory seminar, Los Alamos, USA, 2016

Neutrino Experiments For DM Detection

theory seminar, Cincinnati, USA, 2016

Neutrino Experiments For DM Detection

theory seminar, UIUC, USA, 2016

• Naturalness from a Composite Top?

theory seminar, University of Notre Dame, USA, 2016

• Naturalness from a Composite Top?

Beyond the Standard Model Workshop, University of Michigan, USA, 2016

• Naturalness from a Composite Top?

theory seminar, UC Riverside, USA, 2016

• Naturalness from a Composite Top?

theory seminar, UC Irvine, USA, 2016

• Naturalness from a Composite Top?

theory seminar, Caltech, USA, 2016

Naturalness from a Composite Top?

KITPC/TeV/CEPC workshop, KITPC, China, 2016

Split Coupling SUSY

Pheno 2016, University of Pittsburgh, USA, 2016

Detecting DM with superconductors

Dark Forces 2016, SLAC, USA, 2016

Split Coupling SUSY

1st PIKIO Meeting, University of Cincinnati, USA, 2016

• Light Scalar Boson With No Symmetries

Elementary Particle Seminar, University of Maryland, USA, 2015

Being Flat With No Symmetries

High Energy Theory Seminar, MCTP, University of Michigan, USA, 2015

Being Flat With No Symmetries

SUSY 2015, Lake Tahoe, CA, USA, 2015

• The AdS3/CFT2 Avatar of the (Little) Hierarchy Problem

The 4th MCTP Spring Symposium, University of Michigan, USA, 2015

• The AdS3/CFT2 Avatar of the (Little) Hierarchy Problem

theory seminar, KITP, USA, 2015

• The AdS3/CFT2 Avatar of the (Little) Hierarchy Problem

Particle Physics Seminar, Princeton University, USA, 2015

• The AdS3/CFT2 Avatar of the (Little) Hierarchy Problem

theory seminar, UCSD, USA, 2015

• The AdS3/CFT2 Avatar of the (Little) Hierarchy Problem

TEP Seminars, UCLA, USA, 2015

• A Parametrically Enhanced Hidden Photon Search

LHC/BSM Journal Club, MIT, USA, 2014

A Parametrically Enhanced Hidden Photon Search

theory seminar, Boston University, USA, 2014

Explicitly Broken Supersymmetry with Exactly Massless Moduli

Journal Club, Rutgers, USA, 2014

• A Parametrically Enhanced Hidden Photon Search

theory seminar, SUNY-Stony Brook, USA, 2014

• Explicitly Broken Supersymmetry with Exactly Massless Moduli

theory seminar, UC Berkeley, USA, 2014

A Parametrically Enhanced Hidden Photon Search

theory seminar, UC Riverside, USA, 2014

A Parametrically Enhanced Hidden Photon Search

theory seminar, Caltech, USA, 2014

• A Parametrically Enhanced Hidden Photon Search

theory seminar, SISSA, Italy, 2014

• Dark Matter Induced Nucleon Decay: Model and Signatures

theory seminar, University of Wisconsin-Madison, USA, 2013

Dark Matter Induced Nucleon Decay: Model and Signatures

theory seminar, University of Michigan, USA, 2013

• A Complete Model of Low-Scale Gauge Mediation

theory seminar, UC Davis, USA, 2012

A Complete Model of Low-Scale Gauge Mediation

theory seminar, SLAC, USA, 2012

• A Complete Model of Low-Scale Gauge Mediation

theory seminar, Berkeley, USA, 2012

• Diagnosing the top-quark angular asymmetry using LHC intrinsic charge asymmetries

theory seminar, Harvard, USA, 2012

• Early searches for super particles at the LHC

SUSY 2011, Fermilab, USA, 2011

• Super particles at the LHC: Early searches and mass measurements

theory seminar, SLAC, USA, 2011

• Super particles at the LHC: Early searches and mass measurements

theory seminar, UC Santa Cruz, USA, 2011

• Extracting Particle Masses from Missing Energy Signatures with Displaced Tracks

PHENO 2011, University of Wisconsin at Madison, USA, 2011

CONFERENCES, WORKSHOPS AND SCHOOLS

LIGO-Virgo-KAGRA Collaboration Meeting

Northwestern University, 2023

2019 Meeting of the APS Division of Particles and Fields

Boston, USA, 2019

KITP Sensitivity Frontier Workshop

KITP, UCSB, USA, 2018

Beyond the Standard Model Workshop

University of Michigan, USA, 2016

Aspen Center for Physics 2016 Summer Season

Aspen, USA, 2016

KITPC/TeV/CEPC workshop

KITPC, China, 2016

Pheno 2016

University of Pittsburgh, USA, 2016

Dark Forces 2016

SLAC, USA, 2016

1st PIKIO Meeting

University of Cincinnati, USA, 2016

SUSY 2015

Lake Tahoe, CA, USA, 2015

The 4th MCTP Spring Symposium

University of Michigan, USA, 2015

Exploring the Physics Frontier with Circular Colliders

Aspen, USA, 2015

· Frontiers of New Physics: Colliders and Beyond

ICTP, Italy, 2014

The Search for Fundamental Physics: Higgs Bosons and Supersymmetry

UC Santa Cruz, USA, 2013

• West Coast LHC Theory Meeting

UC Riverside, USA, 2012

SavasFest

Stanford, USA, 2012

Exact Methods in Gauge/String Theories

Princeton University, USA, 2011

• String Theory and its Applications: from meV to the Plank Scale

TASI, University of Colorado, USA, 2010

AdS/CFT: New Developments and Applications

Princeton University, USA, 2010

AdS/CFT: New Developments and Applications

Princeton University, USA, 2009

Physics of the Large and the Small

TASI, University of Colorado, USA, 2009

• Current Trends in Dark Matter, Institute for Advanced Studies

Princeton University, USA, 2009

Winter School in Theoretical Physics, Institute for Advanced Studies

Hebrew University, Israel, 2009.

• International Conference on Frontier Physics

KITPC, Beijing, China, 2007

Publication List

Yue Zhao

1. Blowing in the Dark Matter Wind

Hannah Day, Da Liu, Markus A. Luty, Yue Zhao e-Print: 2312.13345 [hep-ph]

Submitted to JHEP

2. Search for dark photons with synchronized quantum sensor network

M. Jiang, T. Hong, D. Hu, Y. Chen, F. Yang, T. Hu, X. Yang, J. Shu, Y. Zhao, X. Peng e-Print::2305.00890 [quant-ph]
Submitted to Nature Communications

3. Probing the pulsar explanation of the Galactic-Center GeV excess using continuous gravitational-wave searches

Andrew Miller, Yue Zhao e-Print: 2301.10239 [astro-ph.HE] Phys.Rev.Lett. 131 (2023) 8, 8

4. Probing early Universe supercooled phase transitions with gravitational wave data

C. Badger, B. Fornal, K. Martinovic, A. Romero, K. Turbang, H. Guo, A. Mariotti, M. Sakellariadou, A. Sevrin, F. Yang, Y. Zhao

e-Print: 2209.14707 [hep-ph] Phys.Rev.D 107 (2023) 2, 023511

5. Birefringence tomography for axion cloud

Y. Chen, C. Li, Y. Mizuno, J. Shu, X. Xue, Q. Yuan, Y. Zhao, Z. Zhou e-Print: 2208.05724 [hep-ph] JCAP09(2022)073

6. Detection of Early-Universe Gravitational Wave Signatures and Fundamental Physics

Caldwell, et. al.

Contributed as one of the key authors

e-Print: 2203.07972 [gr-qc] Gen.Rel.Grav. 54 (2022) 12, 156 2022 Snowmass Summer Study

7. High-precision search for dark photon DM with the Parkes Pulsar Timing Array

with PPTA collaboration

Contributed as one of the key authors e-Print: arXiv:2112.07687 [hep-ph]

Phys. Rev. Research 4, L012022 - Letter

Editors' Suggestion

8. Earth Shielding and Daily Modulation from Electrophilic Boosted Dark Matter

Yifan Chen, Bartosz Fornal, Pearl Sandick, Jing Shu, Xiao Xue, Yue Zhao, Junchao Zong e-Print: 2110.09685 [hep-ph] Phys.Rev.D 107 (2023) 3, 033006

9. Stochastic Gravitational Wave Background from PBH-ABH Mergers

Wenfeng Cui, Fei Huang, Jing Shu, Yue Zhao e-Print: 2108.04279 [astro-ph.CO] Chin.Phys.C 46 (2022) 5, 055103

10. Constraints on dark photon dark matter using data from LIGO's and Virgo's third observing run

LIGO-Virgo-KAGRA Collaboration Author in the paper-writing team e-Print: 2105.13085 [astro-ph.CO] Phys.Rev.D 105 (2022) 6, 063030

11.Stringent constraints on axion-photon coupling with Event Horizon Telescope polarimetric measurements of supermassive black hole M87*

Y. Chen, Y. Liu, R. Lu, Y. Mizuno, J. Shu, X. Xue, Q. Yuan, Y. Zhao e-Print: 2105.04572 [hep-ph]
Nature Astron. 6 (2022) 5, 592-598

12. Gravitational Waves from Mini-Split SUSY

Bartosz Fornal, Barmak Shams Es Haghi, Jiang-Hao Yu, Yue Zhao e-Print: 2104.00747 [hep-ph]
Phys.Lett.B 815 (2021) 136151

13.Implications for First-Order Cosmological Phase Transitions from the Third LIGO-Virgo Observing Run

A. Romero, K. Martinovic, T. Callister, H. Guo, M. Martínez, M. Sakellariadou, F. Yang, Y. Zhao e-Print: 2102.01714 [hep-ph] Phys. Rev. Lett. 126, 151301 (2021)

14. Constraints on cosmic strings using data from the third Advanced LIGO-Virgo observing run

LIGO-Virgo-KAGRA Collaboration Author in the paper-writing team e-Print: 2101.12248 [gr-qc] Phys.Rev.Lett. 126 (2021) 241102 Editors' Suggestion

15. Mechanical Quantum Sensing in the Search for Dark Matter

Daniel Carney, et. al. e-Print: arXiv:2008.06074 [physics.ins-det] Quantum Science and Technology-100938.R1

16. Boosted Dark Matter Interpretation of the XENON1T Excess

Bartosz Fornal, Pearl Sandick, Jing Shu, Meng Su, Yue Zhao e-Print: arXiv:2006.11264 [hep-ph] Phys.Rev.Lett. 125 (2020) 16, 161804 Featured in Physics Editors' Suggestion

17. Baryonic and Leptonic GeV Dark Matter

Bartosz Fornal, Alec Hewitt, Yue Zhao e-Print: arXiv:2011.09014 [hep-ph] Phys.Lett.B 811 (2021) 136151

18. Dark Matter Capture by Atomic Nuclei

Bartosz Fornal, Benjamin Grinstein, Yue Zhao e-Print: arXiv: 2005.04240 [hep-ph] Phys.Lett.B 811 (2020) 135869

19. Producing and detecting long-lived particles at different experiments at the LHC

Chaochen Yuan, Huaqiao Zhang, Yue Zhao e-Print: arXiv: 2004.08820 [hep-ph] JHEP 02 (2022) 069

20. Prospects for Detecting Boosted Dark Matter in DUNE through Hadronic Interactions

J. Berger, Y. Cui, M. Graham, L. Necib, G. Petrillo, D. Stocks, Y. Tsai, Y. Zhao e-Print: arXiv:1912.05558 [hep-ph] Phys.Rev.D 103 (2021) 9, 095012

21. Ultralight dark matter detection with mechanical quantum sensors

Daniel Carney, Anson Hook, Zhen Liu, Jacob M. Taylor, Yue Zhao. e-Print: arXiv:1908.04797 [hep-ph] New J.Phys. 23 (2021) 2, 023041

22. Searching for Dark Photon Dark Matter in LIGO O1 Data

Huai-Ke Guo, Keith Riles, Feng-Wei Yang, Yue Zhao e-Print: arXiv:1905.04316 [hep-ph]
Nature - Commun.Phys. 2 (2019) 155

23. Probing Axions with Event Horizon Telescope Polarimetric Measurements

Yifan Chen, Jing Shu, Xiao Xue, Qiang Yuan, Yue Zhao e-Print: arXiv:1905.02213 [hep-ph] Phys.Rev.Lett. 124 (2020) 6, 061102

24. Detecting dark photon dark matter with Gaia-like astrometry observations

Huai-Ke Guo, Yingqi Ma, Jing Shu, Xiao Xue, Qiang Yuan, Yue Zhao e-Print: arXiv:1902.05962 [hep-ph] JCAP 1905 (2019) no.05, 015

25. Detecting Axion-like Dark Matter with Linearly Polarized Pulsar Light

Tao Liu, George Smoot, Yue Zhao e-Print: arXiv:1901.10981 [astro-ph.CO] Phys.Rev.D 101 (2020) 6, 063012

26. Dark Photon Dark Matter Produced by Axion Oscillations

Raymond T. Co, Aaron Pierce, Zhengkang Zhang, Yue Zhao e-Print: arXiv:1810.07196 [hep-ph] Phys.Rev. D99 (2019) no.7, 075002

27. Searching for Dark Photon Dark Matter with Gravitational Wave Detectors

Aaron Pierce, Keith Riles, Yue Zhao e-Print: arXiv:1801.10161 [hep-ph] Phys.Rev.Lett. 121 (2018) no.6, 061102

28. Using LISA-like Gravitational Wave Detectors to Search for Primordial Black Holes

Huai-Ke Guo, Jing Shu, Yue Zhao e-Print: arXiv:1709.03500 [astro-ph.CO] Phys.Rev. D99 (2019) no.2, 023001

29.A Strong Test of the Dark Matter Origin of the 1.4 TeV DAMPE Signal Using IceCube Neutrinos

Yue Zhao, Ke Fang, Meng Su, M. Coleman Miller e-Print: arXiv:1712.03210 [astro-ph.HE] JCAP 1806 (2018) no.06, 030

30. Hidden Valley search at the LHCb

Aaron Pierce, Bibhushan Shakya, Yuhsin Tsai, Yue Zhao e-Print: arXiv:1708.05389 [hep-ph]

Phys.Rev. D97 (2018) 095033

31. Was the Universe Actually Radiation Dominated Prior to Nucleosynthesis?

John T. Giblin, Gordon Kane, Eva Nesbit, Scott Watson, Yue Zhao

e-Print: arXiv:1706.08536 [hep-th] Phys.Rev. D96 (2017) no.4, 043525

32. Establishing the Isolated Standard Model

James D. Wells, Zhengkang Zhang, Yue Zhao e-Print: arXiv:1702.06954 [hep-ph] Phys.Rev. D96 (2017) no.1, 015005

33. Cosmology and time dependent parameters induced by misaligned light scalar

Yue Zhao

e-Print: arXiv: 1701.02735 [hep-ph] Phys.Rev. D95 (2017) no.11, 115002

34. Dark Sectors 2016 Workshop: Community Report

Jim Alexander et al.

e-Print: arXiv:1608.08632 [hep-ph]

35. Naturalness from a Composite Top?

Aaron Pierce, Yue Zhao e-Print: arXiv:1607.01318 [hep-ph] JHEP 1701 (2017) 054

36. Suppressing SUSY flavor violations through quenched gaugino-flavor interactions

James D. Wells, Yue Zhao e-Print: arXiv:1604.01405 [hep-ph] Phys.Rev. D95 (2017) no.11, 115033

37. Faking SM Photons by Displaced Dark Photon Decays

Yuhsin Tsai, Lian-Tao Wang, Yue Zhao e-Print: arXiv:1603.00024 [hep-ph] Phys.Rev. D95 (2017) no.1, 015027

38. Detecting Superlight Dark Matter with Fermi-Degenerate Materials

Yonit Hochberg, Matt Pyle, Yue Zhao, Kathryn M. Zurek e-Print: arXiv:1512.04533v1 [hep-ph] JHEP 1608 (2016) 057

39. Dark Matter Annihilation Decay at The LHC

Yuhsin Tsai, Lian-Tao Wang, Yue Zhao e-Print: arXiv:1511.07433 [hep-ph] Phys.Rev. D93 (2016) no.3, 035024

40.AdS/CFT and the Little Hierarchy Problem

Xi Dong, Daniel Z. Freedman, Yue Zhao e-Print: arXiv:1510.01741 [hep-th]

41. Superconducting Detectors for Super Light Dark Matter

Yonit Hochberg, Yue Zhao, Kathryn M. Zurek e-Print: arXiv:1504.07237 [hep-ph] Phys.Rev.Lett. 116 (2016) 1, 011301

42. A Radio for Hidden-Photon Dark Matter Detection

S. Chaudhuri, P. W. Graham, K. Irwin, J. Mardon, S.Rajendran, Y. Zhao e-Print: arXiv:1411.7382 [hep-ph] Phys.Rev. D92 (2015) 7, 075012

43. Explicitly Broken Supersymmetry with Exactly Massless Moduli

Xi Dong, Daniel Z. Freedman, Yue Zhao e-Print: arXiv:1410.2257 [hep-th] JHEP 1606 (2016) 090

44. Detecting Boosted Dark Matter from the Sun with Large Volume Neutrino Detector

Joshua Berger, Yanou Cui, Yue Zhao e-Print: arXiv:1410.2246 [hep-ph] JCAP 1502 (2015) 02, 005

45. Parametrically enhanced hidden photon search

Peter W. Graham, Jeremy Mardon, Surjeet Rajendran, Yue Zhao e-Print: arXiv:1407.4806 [hep-ph] Phys.Rev. D90 (2014) 075017 Editors' Suggestion

46.Indirect Detection Signatures for the Origin of Asymmetric Dark Matter

Yue Zhao, Kathryn M. Zurek e-Print: arXiv:1401.7664 [hep-ph] JHEP 1407 (2014) 017

47. Dark Matter Induced Nucleon Decay: Model and Signatures

Junwu Huang, Yue Zhao e-Print: arXiv:1312.0011 [hep-ph] JHEP 1402 (2014) 077

48. Induced Electroweak Symmetry Breaking and Supersymmetric Naturalness

Jamison Galloway, Markus A. Luty, Yuhsin Tsai, Yue Zhao e-Print: arXiv: 1306.6354 [hep-ph] Phys.Rev. D89 (2014) 075003

49. Dichromatic Dark Matter

Yang Bai, Meng Su, Yue Zhao e-Print: arXiv: 1212.0864 [hep-ph] JHEP 1302 (2013) 097

50. A Complete Model of Low-Scale Gauge Mediation

Nathaniel Craig, Simon Knapen, David Shih, Yue Zhao e-Print: arXiv:1206.4086 [hep-ph] JHEP 1303 (2013) 154

51. Diagnosing the top-quark angular asymmetry using LHC intrinsic charge asymmetries

Simon Knapen, Yue Zhao, Matthew J. Strassler e-Print: arXiv: 1111.5857 [hep-ph]

Phys.Rev. D86 (2012) 014013

52. Recovering Particle Masses from Missing Energy Signatures with Displaced Tracks

Michael Park, Yue Zhao

e-Print: arXiv: 1110.1403 [hep-ph]

53. Simplified Models for LHC New Physics Searches.

Daniele Alves et al e-Print: arXiv:1105.2838 [hep-ph] J.Phys. G39 (2012) 105005

54. Entropic force and its fluctuation from gauge/gravity duality

Yue Zhao

e-Print: arXiv:1002.4039 [hep-th]

Int.J.Mod.Phys.A Vol. 26, No. 9 (2011) 1639-1650

55. Gamma Ray Spectra from Dark Matter Annihilation and Decay

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