

Laura Jeanty

Experimental High Energy Physics

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Research Interests

- Searches for new physics, particularly in long-lived states
- Measurements of electroweak processes
- Silicon detector development, data-acquisition, and calibration

Academic Appointments

- 2017–present **Assistant Professor**, *Department of Physics, University of Oregon, Eugene, OR.*
2013–2018 **Chamberlain Fellow**, *Physics Department, Lawrence Berkeley National Lab, Berkeley, CA.*
2007–2013 **Graduate Research Assistant**, *Physics Department, Harvard University, Cambridge, MA.*
2006–2007 **Post-baccalaureate Researcher**, *Physics Department, Yale University, New Haven, CT.*

Education

- 2007–2013 **M.S. & Ph.D., Physics**, *Harvard University, Cambridge, MA.*
Dissertation: Measurement of the WZ production cross-section in proton-proton collisions at $\sqrt{s}=7$ TeV and limits on anomalous triple gauge couplings with the ATLAS detector
Advisor: Melissa Franklin
- 2002–2006 **B.S., Physics, B.A., Geology and Geophysics**, *Yale University, New Haven, CT.*
magna cum laude
Advisor: Bonnie Fleming

ATLAS Experiment Leadership Roles

- 2019–present ITk Pixel Institute Contact
- 2019–2021 Convener of Supersymmetry Group
- 2016–2017 Convener of Supersymmetry R-parity Violating and Long-Lived Particles Subgroup
- 2016–2017 Convener of Task Force on Pixel Run 3 Readiness
- 2015–2016 Pixel and IBL Calibration Coordinator
- 2015–2016 Pixel and IBL Data Acquisition Coordinator
- 2012 Anomalous Triple Gauge Couplings Contact
- 2011 Muon Data Quality Operations Coordinator

Honors & Awards

- 2019–2024 US Department of Energy Early Career Award
- 2016 ATLAS Outstanding Achievement Award for *Outstanding contributions to the successful commissioning and operation of the Pixel Detector for the start-up of Run 2, CERN*
- 2010–2013 National Science Foundation Graduate Research Fellowship

- 2011 Winner of US LHC User's Organization Young Scientist Competition
- 2009–2010 Frederick Sheldon Traveling Fellowship, Harvard University
- 2008 & 2009 Harvard University Certificate of Distinction in Teaching, Harvard University
- 2008 White Prize for Excellence in Teaching, Harvard University
- 2006 Davenport College Bensinger Science Prize, Yale University

Teaching & Mentorship

Teaching

- Physics 432 Digital Electronics, Spring 2022
- Physics 412 Electricity and Magnetism, Fall 2021 & Fall 2022
- Physics 290 Foundation of Physics Laboratory, Winter 2019 & Spring 2020
- Physics 251 Foundational Physics I, Fall 2018
- Physics 601 Dissertation Research, 2019 – present
- Physics 401 Undergraduate Research, 2020 – 2021

Postdoc mentoring

- Ismet Siral, PhD University of Michigan 2019, now CERN Fellow

PhD Student Supervision

- Nathan Young, 3rd year PhD
- Kehang Bai, 3rd year PhD
- Marija Glisic, 6th year PhD

PhD Student Co-Supervision

- Rebecca Carney, PhD 2019 University of Stockholm, now postdoc at LBNL
- Brad Axen, PhD 2016 University of California, Berkeley, now at Square

Undergraduate Student Supervision

- Laura Nosler, UO BS 2022, NSF GFRP winner, now PhD student at UC Berkeley
- Sorcha O'Connor, UO BS 2022
- Grey Canada, third year

Departmental Service

Committees

- 2021–present Graduate Support Group
- 2021–2022 Personnel Committee
- 2020–2021 Alumni Committee
- 2019 Fall Term Colloquium Organizer
- 2018–2019 Graduate Studies Committee

Other Service

- 2021 & 2022 NSF Graduate Fellowship writing workshop for Physics students
- 2018–2021 Organizer of seminar series for students, *Putting Your Physics Degree to Work*

PhD Thesis Committees

- *Current:* Nicholas Luongo [chair], Kara Merfeld, Galen Gledhill [chair], Layne Bradshaw, Daniel Hothem, Deion Fellers [chair], Aileen Carroll-Godfrey, Anthony Carroll [chair]

- *Complete:* Tom Tong, Beth McCarry

Professional Activities

US ATLAS Roles

- present US ATLAS Management Advisory Committee
- 2019–present US ATLAS Center University Contact and Fellowship Reviewer
- 2018–2021 Member of US ATLAS Diversity and Inclusion Committee

Referee or Reviewer

- 2019 – 2022 DOE Grant Reviewer
- 2019–2021 Peer Reviewer for Physics Review Letters, Journal of High Energy Physics, and European Physical Journal C

Conference and Workshop Organization

- 2020–2022 Member of Local Organizing Committee for Snowmass CSS, UW, Seattle, WA
- 2021 Organizer of ATLAS Joint Search workshop, CERN
- 2020 Organizer of ATLAS Supersymmetry workshop, CERN
- 2019 Organizer of US ATLAS ITk Pixel workshop, University of Oregon
- 2019 Long-lived particle session convener, *DM@LHC 2019*, University of Washington, Seattle, WA
- 2019 Supersymmetry session convener, *US ATLAS Workshop*, UMass Amherst, MA
- 2018 Organizer of theory-experiment workshop, *New ideas in detecting long-lived particles*, LBNL
- 2017 Organizer of ATLAS workshop, *Triggering on long-lived particles*, LBNL

Outreach

- 2019–present Speaker, Quarknet workshop for high school teachers, University of Oregon
- 2021 Co-author of CERN courier article, *Higgsinos under the microscope*
- 2021 Writer, UO Comics and Science program, *Symmetry in Physics*
- 2020 Speaker, Women in STEM, University of Oregon
- 2018 Speaker, American Association of Physics Teachers Annual Meeting, University of Oregon
- 2018 Speaker, Physics Slam, University of Oregon
- 2018 Session leader, *Conference for Undergraduate Women in Physics*, University of Oregon
- 2017 Speaker, Quarknet workshop for high school students, LBNL
- 2015–2016 Founder and host of *In Particular* podcast, CERN
- 2014 ATLAS Control Room virtual guide, CERN
- 2014 *Beamline for schools* competition judge, CERN
- 2012–2013 Founder and host of *Veritalk* podcast, Harvard University
- 2012 Speaker and Coordinator, *Science in the News*, Harvard University
- 2010 Regular contributor, ATLAS Blog, CERN, Geneva, Switzerland
- 2009 Winner of best outreach poster, *Rugby and Particle Physics*, SUSSP65, St. Andrews, Scotland

Selected Talks

- May 2022 *How long-lived searches have changed over the years*, LLP Workshop, CERN
- Oct 2021 *Perspectives from Run 2*, LBNL Research Progress Meeting, Berkeley, CA

- May 2021 *Future Perspectives at the HL-LHC*, Phenomenology 2021 Symposium, Pittsburgh PA
- April 2021 *Long live long-lived Supersymmetry*, University of Tennessee Colloquium, TN
- March 2021 *Long-lived dark photons @ the ILC*, International Workshop on Future Linear Colliders
- May 2020 *Physics Through the Looking Glass*, public talk @ LHCP, Paris, France
- Aug 2019 *Searching for long-lived supersymmetry with ATLAS*, IIT-Madras, Chennai, India
- June 2019 *Long live long-lived Supersymmetry*, Oregon State University Colloquium, OR
- March 2019 *Expectations for sensitivity to BSM physics at HL-LHC*, Aspen 2019 Winter Conference, CO
- Oct 2018 *Heavy charged particles: experimental view*, LHC LLP Workshop, Nikhef, The Netherlands
- Oct 2018 *Dark photon searches at the LHC*, Dark Interactions 2018, Brookhaven National Lab, NY
- July 2018 *Exotic searches: long-lived signatures*, SUSY 2018 Plenary, Barcelona, Spain
- April 2018 *Searches for long-lived particles at HL-LHC at ATLAS*, HL LHC Meeting, Fermilab, IL
- Feb 2017 *Silicon, Straws, and SUSY*, University of Oregon Physics Colloquium, Eugene, OR
- Dec 2016 *Searching for long-lived sparticles*, Northeastern University Physics Colloquium, Boston, MA
- Nov 2016 *Searching for long-lived sparticles*, Nikhef Colloquium, Amsterdam, The Netherlands
- Aug 2016 *Searches for long-lived SUSY particles*, ICHEP16, Chicago, IL
- Oct 2014 *Operational Experience with the ATLAS Pixel Detector*, RESMDD14, Florence, Italy
- Dec 2012 *WZ Production at ATLAS*, LBNL Research Progress Meeting, Berkeley, CA
- May 2012 *ATLAS: neutral and charged TGC measurements*, Working Group on Electroweak Precision Measurements at the LHC, CERN, Geneva, Switzerland
- May 2012 *Diboson Production and aTGCs from ATLAS*, PHENO 2012, University of Pittsburgh, PA
- Nov 2011 *ATLAS: Electroweak Physics*, US LHC Users Annual Meeting, Argonne National Laboratory, IL
- Oct 2011 *Data and MC comparisons for Muon Spectrometer*, LPCC Workshop, Geneva, Switzerland
- April 2006 *CCpi0 events at MiniBooNE*, American Physics Society, APS April Meeting, Dallas, TX

Selected Publications

Selected Publications (Refereed)

- [1] † The ATLAS Collaboration, “Search for charginos and neutralinos in final states with two boosted hadronically decaying bosons and missing transverse momentum in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector,” *Phys. Rev. D*, vol. 104, no. 11, p. 112010, 2021. DOI: 10.1103/PhysRevD.104.112010. arXiv: 2108.07586 [hep-ex].
- [2] † The ATLAS Collaboration, “Search for new phenomena in pp collisions in final states with tau leptons, b-jets, and missing transverse momentum with the ATLAS detector,” *Phys. Rev. D*, vol. 104, no. 11, p. 112005, 2021. DOI: 10.1103/PhysRevD.104.112005. arXiv: 2108.07665 [hep-ex].
- [3] † The ATLAS Collaboration, “Search for R-parity-violating supersymmetry in a final state containing leptons and many jets with the ATLAS experiment using $\sqrt{s} = 13\text{TeV}$ proton–proton collision data,” *Eur. Phys. J. C*, vol. 81, no. 11, p. 1023, 2021. DOI: 10.1140/epjc/s10052-021-09761-x. arXiv: 2106.09609 [hep-ex].
- [4] † The ATLAS Collaboration, “Search for chargino–neutralino pair production in final states with three leptons and missing transverse momentum in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector,” *Eur. Phys. J. C*, vol. 81, p. 1118, 2021. DOI: 10.1140/epjc/s10052-021-09749-7. arXiv: 2106.01676 [hep-ex].

- [5] † The ATLAS Collaboration, “A search for the decays of stopped long-lived particles at $\sqrt{s} = 13$ TeV with the ATLAS detector,” *JHEP*, vol. 07, p. 173, 2021. DOI: 10.1007/JHEP07(2021)173. arXiv: 2104.03050 [hep-ex].
- [6] † The ATLAS Collaboration, “Search for supersymmetry in events with four or more charged leptons in 139 fb^{-1} of $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector,” *JHEP*, vol. 07, p. 167, 2021. DOI: 10.1007/JHEP07(2021)167. arXiv: 2103.11684 [hep-ex].
- [7] † The ATLAS Collaboration, “Search for bottom-squark pair production in pp collision events at $\sqrt{s} = 13$ TeV with hadronically decaying τ -leptons, b -jets and missing transverse momentum using the ATLAS detector,” *Phys. Rev. D*, vol. 104, no. 3, p. 032014, 2021. DOI: 10.1103/PhysRevD.104.032014. arXiv: 2103.08189 [hep-ex].
- [8] † The ATLAS Collaboration, “Search for new phenomena in events with an energetic jet and missing transverse momentum in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector,” *Phys. Rev. D*, vol. 103, no. 11, p. 112006, 2021. DOI: 10.1103/PhysRevD.103.112006. arXiv: 2102.10874 [hep-ex].
- [9] † The ATLAS Collaboration, “Search for new phenomena in events with two opposite-charge leptons, jets and missing transverse momentum in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector,” *JHEP*, vol. 04, p. 165, 2021. DOI: 10.1007/JHEP04(2021)165. arXiv: 2102.01444 [hep-ex].
- [10] † The ATLAS Collaboration, “Search for new phenomena in final states with b -jets and missing transverse momentum in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector,” *JHEP*, vol. 05, p. 093, 2021. DOI: 10.1007/JHEP05(2021)093. arXiv: 2101.12527 [hep-ex].
- [11] † The ATLAS Collaboration, “Search for squarks and gluinos in final states with one isolated lepton, jets, and missing transverse momentum at $\sqrt{s} = 13$ with the ATLAS detector,” *Eur. Phys. J. C*, vol. 81, no. 7, p. 600, 2021, [Erratum: *Eur.Phys.J.C* 81, 956 (2021)]. DOI: 10.1140/epjc/s10052-021-09748-8. arXiv: 2101.01629 [hep-ex].
- [12] † The ATLAS Collaboration, “Search for new phenomena with top quark pairs in final states with one lepton, jets, and missing transverse momentum in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector,” *JHEP*, vol. 04, p. 174, 2021. DOI: 10.1007/JHEP04(2021)174. arXiv: 2012.03799 [hep-ex].
- [13] † The ATLAS Collaboration, “Search for trilepton resonances from chargino and neutralino pair production in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector,” *Phys. Rev. D*, vol. 103, no. 11, p. 112003, 2021. DOI: 10.1103/PhysRevD.103.112003. arXiv: 2011.10543 [hep-ex].
- [14] † The ATLAS Collaboration, “Search for Displaced Leptons in $\sqrt{s} = 13$ TeV pp Collisions with the ATLAS Detector,” *Phys. Rev. Lett.*, vol. 127, no. 5, p. 051802, 2021. DOI: 10.1103/PhysRevLett.127.051802. arXiv: 2011.07812 [hep-ex].
- [15] † The ATLAS Collaboration, “Search for squarks and gluinos in final states with jets and missing transverse momentum using 139 fb^{-1} of $\sqrt{s} = 13$ TeV pp collision data with the ATLAS detector,” *JHEP*, vol. 02, p. 143, 2021. DOI: 10.1007/JHEP02(2021)143. arXiv: 2010.14293 [hep-ex].
- [16] † The ATLAS Collaboration, “Search for phenomena beyond the Standard Model in events with large b -jet multiplicity using the ATLAS detector at the LHC,” *Eur. Phys. J. C*, vol. 81, no. 1, p. 11, 2021, [Erratum: *Eur.Phys.J.C* 81, 249 (2021)]. DOI: 10.1140/epjc/s10052-020-08730-0. arXiv: 2010.01015 [hep-ex].
- [17] † The ATLAS Collaboration, “Search for new phenomena in final states with large jet multiplicities and missing transverse momentum using $\sqrt{s} = 13$ TeV proton-proton collisions recorded by ATLAS in Run 2 of the LHC,” *JHEP*, vol. 10, p. 062, 2020. DOI: 10.1007/JHEP10(2020)062. arXiv: 2008.06032 [hep-ex].
- [18] G. Balbi *et al.*, “Measurements of Single Event Upset in ATLAS IBL,” *JINST*, vol. 15, no. 06, P06023, 2020. DOI: 10.1088/1748-0221/15/06/P06023. arXiv: 2004.14116 [physics.ins-det].

- [19] † The ATLAS Collaboration, “Search for top squarks in events with a Higgs or Z boson using 139 fb^{-1} of pp collision data at $\sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector,” *Eur. Phys. J. C*, vol. 80, no. 11, p. 1080, 2020. DOI: 10.1140/epjc/s10052-020-08469-8. arXiv: 2006.05880 [hep-ex].
- [20] † The ATLAS Collaboration, “Search for a scalar partner of the top quark in the all-hadronic $t\bar{t}$ plus missing transverse momentum final state at $\sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector,” *Eur. Phys. J. C*, vol. 80, p. 737, 2020. DOI: 10.1140/epjc/s10052-020-8102-8. arXiv: 2004.14060 [hep-ex].
- [21] † The ATLAS Collaboration, “Search for direct production of electroweakinos in final states with missing transverse momentum and a Higgs boson decaying into photons in pp collisions at $\sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector,” *JHEP*, vol. 10, p. 005, 2020. DOI: 10.1007/JHEP10(2020)005. arXiv: 2004.10894 [hep-ex].
- [22] The ATLAS Collaboration, “Search for long-lived, massive particles in events with a displaced vertex and a muon with large impact parameter in pp collisions at $\sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector,” *Phys. Rev. D*, vol. 102, p. 032006, 2020. DOI: 10.1103/PhysRevD.102.032006. arXiv: 2003.11956 [hep-ex].
- [23] † The ATLAS Collaboration, “Search for chargino–neutralino production with mass splittings near the electroweak scale in three-lepton final states in $\sqrt{s} = 13 \text{ TeV}$ pp collisions with the ATLAS detector,” *Phys. Rev. D*, vol. 101, p. 072001, 2020. DOI: 10.1103/PhysRevD.101.072001. arXiv: 1912.08479 [hep-ex].
- [24] † The ATLAS Collaboration, “Searches for electroweak production of supersymmetric particles with compressed mass spectra in $\sqrt{s} = 13 \text{ TeV}$ pp collisions with the ATLAS detector,” *Phys. Rev. D*, vol. 101, p. 052005, 2020. DOI: 10.1103/PhysRevD.101.052005. arXiv: 1911.12606 [hep-ex].
- [25] † The ATLAS Collaboration, “Search for direct stau production in events with two hadronic tau-leptons in $\sqrt{s} = 13 \text{ TeV}$ pp collisions with the ATLAS detector,” *Phys. Rev. D*, vol. 101, p. 032009, 2020. DOI: 10.1103/PhysRevD.101.032009. arXiv: 1911.06660 [hep-ex].
- [26] ° The ATLAS Collaboration, “Search for long-lived neutral particles produced in pp collisions at $\sqrt{s} = 13 \text{ TeV}$ decaying into displaced hadronic jets in the ATLAS inner detector and muon spectrometer,” *Phys. Rev. D*, vol. 101, p. 052013, 2020. DOI: 10.1103/PhysRevD.101.052013. arXiv: 1911.12575 [hep-ex].
- [27] ° The ATLAS Collaboration, “Search for magnetic monopoles and stable high-electric-charge objects in 13 tev proton-proton collisions with the atlas detector,” *Phys. Rev. Lett.*, vol. 124, p. 031802, 3 Jan. 2020. DOI: 10.1103/PhysRevLett.124.031802. [Online]. Available: <https://link.aps.org/doi/10.1103/PhysRevLett.124.031802>.
- [28] The ATLAS Collaboration, “Search for heavy charged long-lived particles in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ using an ionisation measurement with the ATLAS detector,” *Phys. Lett.*, vol. B788, pp. 96–116, 2019. DOI: 10.1016/j.physletb.2018.10.055. arXiv: 1808.04095 [hep-ex].
- [29] Y. Chen, E. Frangipane, M. Garcia-Sciveres, L. Jeanty, B. Nachman, S. Pagan Griso, and F. Wang, “Optimal use of Charge Information for the HL-LHC Pixel Detector Readout,” *Nucl. Instrum. Meth.*, vol. A902, pp. 197–210, 2018. DOI: 10.1016/j.nima.2018.01.091. arXiv: 1710.02582 [physics.ins-det].
- [30] † The ATLAS Collaboration, “Search for R-parity-violating supersymmetric particles in multi-jet final states produced in p - p collisions at $\sqrt{s} = 13 \text{ TeV}$ using the ATLAS detector at the LHC,” *Phys. Lett.*, vol. B785, pp. 136–158, 2018. DOI: 10.1016/j.physletb.2018.08.021. arXiv: 1804.03568 [hep-ex].
- [31] † The ATLAS Collaboration, “A search for pair-produced resonances in four-jet final states at $\sqrt{s} = 13 \text{ TeV}$ with the ATLAS detector,” *Eur. Phys. J.*, vol. C78, no. 3, p. 250, 2018. DOI: 10.1140/epjc/s10052-018-5693-4. arXiv: 1710.07171 [hep-ex].
- [32] † The ATLAS Collaboration, “Search for B-L R-parity-violating top squarks in $\sqrt{s} = 13 \text{ TeV}$ pp collisions with the ATLAS experiment,” *Phys. Rev.*, vol. D97, no. 3, p. 032003, 2018. DOI: 10.1103/PhysRevD.97.032003. arXiv: 1710.05544 [hep-ex].

- [33] The ATLAS IBL collaboration, "Production and Integration of the ATLAS Insertable B-Layer," *JINST*, vol. 13, no. 05, T05008, 2018. DOI: 10.1088/1748-0221/13/05/T05008. arXiv: 1803.00844 [physics.ins-det].
- [34] The ATLAS Collaboration, "Search for long-lived charginos based on a disappearing-track signature in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector," *JHEP*, vol. 06, p. 022, 2018. DOI: 10.1007/JHEP06(2018)022. arXiv: 1712.02118 [hep-ex].
- [35] † The ATLAS Collaboration, "Search for long-lived, massive particles in events with displaced vertices and missing transverse momentum in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector," *Phys. Rev.*, vol. D97, no. 5, p. 052012, 2018. DOI: 10.1103/PhysRevD.97.052012. arXiv: 1710.04901 [hep-ex].
- [36] † The ATLAS Collaboration, "Search for new phenomena in a lepton plus high jet multiplicity final state with the ATLAS experiment using $\sqrt{s} = 13$ TeV proton-proton collision data," *JHEP*, vol. 09, p. 088, 2017. DOI: 10.1007/JHEP09(2017)088. arXiv: 1704.08493 [hep-ex].
- [37] The ATLAS Collaboration, "Search for metastable heavy charged particles with large ionization energy loss in pp collisions at $\sqrt{s} = 13$ TeV using the ATLAS experiment," *Phys. Rev.*, vol. D93, no. 11, p. 112015, 2016. DOI: 10.1103/PhysRevD.93.112015. arXiv: 1604.04520 [hep-ex].
- [38] ° The ATLAS Collaboration, "Study of (W/Z)H production and Higgs boson couplings using $H \rightarrow WW^*$ decays with the ATLAS detector," *JHEP*, vol. 08, p. 137, 2015. DOI: 10.1007/JHEP08(2015)137. arXiv: 1506.06641 [hep-ex].
- [39] The ATLAS Collaboration, "Measurement of WZ production in proton-proton collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector," *Eur. Phys. J.*, vol. C72, p. 2173, 2012. DOI: 10.1140/epjc/s10052-012-2173-0. arXiv: 1208.1390 [hep-ex].
- [40] The ATLAS Collaboration, "Measurement of the $W^\pm Z$ production cross section and limits on anomalous triple gauge couplings in proton-proton collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector," *Phys. Lett.*, vol. B709, pp. 341–357, 2012. DOI: 10.1016/j.physletb.2012.02.053. arXiv: 1111.5570 [hep-ex].
- [41] The ATLAS Collaboration, "Measurement of the Transverse Momentum Distribution of W Bosons in pp Collisions at $\sqrt{s} = 7$ TeV with the ATLAS Detector," *Phys. Rev.*, vol. D85, p. 012005, 2012. DOI: 10.1103/PhysRevD.85.012005. arXiv: 1108.6308 [hep-ex].
- [42] The ATLAS Collaboration, "Measurement of the $W \rightarrow l\nu$ and $Z/\gamma^* \rightarrow \ell\ell$ production cross sections in proton-proton collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector," *JHEP*, vol. 12, p. 060, 2010. DOI: 10.1007/JHEP12(2010)060. arXiv: 1010.2130 [hep-ex].
- [43] The ATLAS TRT Collaboration, "The ATLAS Transition Radiation Tracker (TRT) proportional drift tube: design and performance," *Journal of Instrumentation*, vol. 3, no. 02, P02013, 2008. [Online]. Available: <http://stacks.iop.org/1748-0221/3/i=02/a=P02013>.

† indicates group or subgroup convener, ° internal reviewer, no mark indicates direct contributing or leading author

Selected Publications (Non-Refereed)

- [1] L. Jeanty, L. Nosler, and C. Potter, "Sensitivity to decays of long-lived dark photons at the ILC (A Snowmass White Paper)," 2022. DOI: 10.48550/ARXIV.2203.08347. [Online]. Available: <https://arxiv.org/abs/2203.08347>.
- [2] X. Cid Vidal *et al.*, "Beyond the Standard Model Physics at the HL-LHC and HE-LHC," 2018. arXiv: 1812.07831 [hep-ph].
- [3] The ATLAS Collaboration, "Sensitivity of the ATLAS experiment to long-lived particles with a displaced vertex and E_T^{miss} signature at the HL-LHC," no. ATL-PHYS-PUB-2018-033, Nov. 2018. [Online]. Available: <http://cds.cern.ch/record/2647992>.

- [4] The ATLAS Collaboration, “Technical Design Report for the ATLAS Inner Tracker Pixel Detector,” no. CERN-LHCC-2017-021. ATLAS-TDR-030, Sep. 2017. [Online]. Available: <http://cds.cern.ch/record/2285585>.

Works in Progress

- [1] The ATLAS Collaboration, “Search for heavy, long-lived, charged particles with large ionisation energy loss in pp collisions at $\sqrt{s} = 13$ TeV using the ATLAS experiment and the full Run 2 dataset,” *CERN-EP-2022-029*, 2022. [Online]. Available: <https://atlas.web.cern.ch/Atlas/GROUPS/PHYSICS/PAPERS/SUSY-2018-42/>.