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### Selected peer-reviewed publications

Over 260 published journal publications as part of the ATLAS Collaboration.

*Every publication of the ATLAS collaboration relies on the results of thousands of individual researchers and technicians. For this reason, each document made public by the ATLAS collaboration includes all members of the collaboration, in alphabetical order. This section includes only publications with direct personal contribution.*

- Mar 2021 Search for dark matter produced in association with a dark Higgs boson decaying to  $W^\pm W^\mp$  or  $ZZ$  in fully hadronic final states using  $pp$  collisions at  $\sqrt{s} = 13$  TeV recorded with the ATLAS detector  
*Phys. Rev. Lett.* 126, 121802, [arXiv:2010.06548](https://arxiv.org/abs/2010.06548), 7 citations (21.03.2022)  
*central analyser, analysis strategy, analysis software design and maintenance, distributed computing, signal samples, statistical analysis*
- Jun 2019 Combination of Searches for Invisible Higgs Boson Decays with the ATLAS Experiment [minor contribution]  
*Phys. Rev. Lett.* 122, 231801, [arXiv:1904.05105](https://arxiv.org/abs/1904.05105), 152 citations (21.03.2022)  
*contributed to studies regarding statistical independence of results*
- Mar 2019 Constraints on mediator-based dark matter and scalar dark energy models using  $\sqrt{s} = 13$  TeV  $pp$  collision data collected by the ATLAS detector  
*JHEP* 1905 (2019) 142, [arXiv:1903.01400](https://arxiv.org/abs/1903.01400), 120 citations (21.03.2022)  
*liaison for incorporating JHEP 10 (2018) 180 results, reinterpretation for dark matter simplified model with extended Higgs sector*
- Oct 2018 Search for dark matter in events with a hadronically decaying vector boson and missing transverse momentum in  $pp$  collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector  
*JHEP* 10 (2018) 180, [arXiv:1807.11471](https://arxiv.org/abs/1807.11471), 86 citations (21.03.2022)  
*central analyser, analysis software maintenance, distributed computing, multijet background estimate, statistical analysis*

### Selected public notes released by the ATLAS experiment

- Sep 2021 Search for heavy resonances in four-top-quark final states in  $pp$  collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector  
*ATLAS-CONF-2021-048* (non-peer-reviewed ATLAS publication)  
*co-lead of analysis, statistical analysis, distributed computing, signal samples, student supervision*

- Aug 2019 RECAST framework reinterpretation of an ATLAS Dark Matter Search constraining a model of a dark Higgs boson decaying to two  $b$ -quarks  
*ATLAS-PUB-2019-032* (non-peer-reviewed ATLAS publication)  
*co-editor, co-organisation of effort, signal samples, RECAST workflow setup*
- Jul 2018 Search for Dark Matter Produced in Association with a Higgs Boson Decaying to  $b\bar{b}$  at  $\sqrt{s} = 13$  TeV with the ATLAS Detector using  $79.8 \text{ fb}^{-1}$  of pp collisions  
*ATLAS-CONF-2018-039* (non-peer-reviewed ATLAS publication)  
*central analyser, analysis software maintenance, commissioning of object-based missing transverse momentum significance and multijet estimate, distributed computing, statistical analysis*

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## Proceedings

- Dez 2018 Search for Dark Matter in association with a hadronically decaying  $Z'$  vector boson with the ATLAS detector in  $pp$  collisions at 13 TeV  
*PoS LHCP2018 (2018) 016 (Proceedings)*
- Nov 2015 Performance of a First-Level Muon Trigger with High Momentum Resolution Based on the ATLAS MDT Chambers for HL-LHC  
*NSS/MIC 2015 (Proceedings)*, [arXiv:1511.09210](https://arxiv.org/abs/1511.09210)