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Journal Publications

Papers to which I have made a significant and direct contribution

1. ATLAS Collaboration (**W. J. Fawcett** editor) "*Search for new phenomena in final states with large jet multiplicities and missing transverse momentum with ATLAS using* $\sqrt{s} = 13$ *TeV proton-proton collisions*" Phys. Lett. B. **757** (2016).
   The first LHC Supersymmetry search paper from either ATLAS or CMS at LHC Run-2.

2. ATLAS Collaboration (**W. J. Fawcett** editor) "*Summary of the ATLAS experiment's sensitivity to supersymmetry after LHC Run 1 – interpreted in the phenomenological MSSM*" JHEP 10 (2015) 134.
   The most comprehensive analysis of Run-1 Supersymmetry searches, combining 22 different search papers and more than 300,000 pMSSM models. Selected by the ATLAS Collaboration as a "Physics highlight". Selected by Oxford University as a "Physics highlight". Featured on Résonaances blog and in the CERN courier (Nov 2015). Inspired several spin-off papers.

ATLAS Collaboration Notes

3. ATLAS Collaboration (**W. J. Fawcett** lead author) "Pursuit of new phenomena in final states with high jet multiplicity, high jet masses and missing transverse momentum with ATLAS at $\sqrt{s}$ =13 TeV" ATLAS-CONF-2016-095.

International Conference Talks and Proceedings

4. **W. J. Fawcett**, "pMSSM studies with ATLAS and CMS" PoS (LHCP2016) 146.
   Presented on behalf of the ATLAS and CMS collaborations.

5. **W. J. Fawcett**, "Summary of SUSY constraints from ATLAS using the phenomenological MSSM" PoS (LP2015) 081.
   Presented on behalf of the ATLAS collaboration.

6. **W. J. Fawcett** and S. Chen, "Can LHCb Study Three Body Decays with Neutrals?" arXiv:1312.0023.
   Presented on behalf of the LHCb collaboration.