

# **Veröffentlichungen am DESY 2014**



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# 1 POF2-510 - Hochenergiephysik

A. Abdel-Rehim u. a.

**Disconnected quark loop contributions to nucleon observables in lattice QCD.**

*Physical review / D*, 89(3):034501, and PUBDB-2014-03842, arXiv:1310.6339.  
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J. Ablinger, J. Blümlein und C. Schneider.

**Generalized Harmonic, Cyclotomic, and Binomial Sums, their Polylogarithms and Special Numbers.**

*Journal of physics / Conference Series*, 523(conf 1):012060, and DESY-2014-00250, arXiv:1310.5645; DESY-13-189; DO-TH-13-28; SFB-CPP-13-78; LPN13-077.  
doi: 10.1088/1742-6596/523/1/012060.

J. Ablinger u. a.

**Calculating massive 3-loop graphs for operator matrix elements by the method of hyperlogarithms.**

*Nuclear physics / B*, 885:409, and PUBDB-2014-03832, DESY-13-063; DO-TH-14-02; SFB-CPP-14-12; LPN-14-046; HIGGSTOOLS –14-005; arXiv:1403.1137.  
doi: 10.1016/j.nuclphysb.2014.04.007.

J. Ablinger u. a.

**Iterated Binomial Sums and their Associated Iterated Integrals.**

*Journal of mathematical physics*, 55(11):112301, and PUBDB-2015-01108.  
doi: 10.1063/1.4900836.

J. Ablinger u. a.

**The 3-loop non-singlet heavy flavor contributions and anomalous dimensions for the structure function  $F_2(x, Q^2)$  and transversity.**

*Nuclear physics / B*, 886:733, and PUBDB-2014-04119.  
doi: 10.1016/j.nuclphysb.2014.07.010.

J. Ablinger u. a.

**The transition matrix element of the variable flavor number scheme at.**

*Nuclear physics / B*, 882:263, and DESY-2014-02437.  
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A. Akhundov u. a.

**The ZFITTER project.**

*Physics of particles and nuclei*, 45(3):529, and DESY-2014-03039, arXiv:1302.1395.  
doi: 10.1134/S1063779614030022.

S. Alekhin, J. Blümlein und S. Moch.

**The ABM parton distributions tuned to LHC data.**

*Physical review / D*, 89(5):054028, and PUBDB-2014-04260, DESY-13-183; DO-TH-13-26; SFB-CPP-13-71; LPN-13-068;  
arXiv:1310.3059.  
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**Statistical Issues in the Parton Distribution Analysis of the Tevatron Jet Data.**

*Journal of high energy physics*, 2014(2):41, and DESY-2014-02387, DO-TH 12/34; LPN12-118; SFB/CPP-12-79.  
doi: 10.1007/JHEP02(2014)041.

S. Alekhin u. a.

**Nucleon PDF separation with the collider and fixed-target data.**

37th International Conference on High Energy Physics, Valencia (Spain), 07/02/2014 - 07/09/2014.

Elsevier, Amsterdam, Juli 2014.

C. Alexandrou u. a.

**A stochastic method for computing hadronic matrix elements.**

*The European physical journal / C*, 74(1):2692, and DESY-2014-02959.

doi: 10.1140/epjc/s10052-013-2692-3.

C. Alexandrou u. a.

**Baryon spectrum with  $N_f = 2 + 1 + 1$  twisted mass fermions.**

*Physical review / D*, 90(7):074501, and PUBDB-2015-00870, DESY-14-096 , arXiv:1406.4310.

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**Evaluation of disconnected quark loops for hadron structure using GPUs.**

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A. Ali, A. Y. Parkhomenko und A. V. Rusov.

**Precise calculation of the dilepton invariant-mass spectrum and the decay rate in  $B^\pm \rightarrow \pi^\pm \mu^+ \mu^-$  in the SM.**

*Physical review / D*, 89(9):094021, and DESY-2014-02907, DESY-13-153.

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- S. Alioli u. a.  
**Update of the Binoth Les Houches Accord for a standard interface between Monte Carlo tools and one-loop programs.**  
*Computer physics communications*, 185(2):560, and DESY-2014-00182.  
*doi: 10.1016/j.cpc.2013.10.020.*
- S. de Alwis u. a.  
**Moduli spaces in AdS<sub>4</sub> supergravity.**  
*Journal of high energy physics*, 2014(5):102, and DESY-2014-02913, DESY-13-252.  
*doi: 10.1007/JHEP05(2014)102.*
- S. Aoki u. a.  
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*The European physical journal / C*, 74(9):2890, and PUBDB-2014-04108, arXiv:1310.8555.  
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- S. Argyropoulos und T. Sjöstrand.  
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*doi: 10.1007/JHEP11(2014)043.*
- C. Arina, V. Martín-Lozano und G. Nardini.  
**Dark matter versus h → γγ and h → γZ with supersymmetric triplets.**  
*Journal of high energy physics*, 2014(8):15, and PUBDB-2014-03891, DESY 14-039.  
*doi: 10.1007/JHEP08(2014)015.*
- E. Armengaud u. a.  
**Conceptual design of the International Axion Observatory (IAXO).**  
*Journal of Instrumentation*, 9(05):T05002, and DESY-2014-02782.  
*doi: 10.1088/1748-0221/9/05/T05002.*
- H. M. Asatrian und C. Greub.  
**Next-to-leading logarithmic QCD contribution of the electromagnetic dipole operator to  $\tilde{B} \rightarrow X_s \gamma\gamma$  with a massive strange quark.**  
*Physical review / D*, 89(9):094028, and DESY-2014-03005, DESY-14-034.  
*doi: 10.1103/PhysRevD.89.094028.*
- ATLAS Collaboration.  
**A Measurement of the Ratio of the Production Cross Sections for W and Z Bosons in Association with Jets with the ATLAS Detector.**  
*The European physical journal / C*, 74(12):3168, and PUBDB-2015-01045, CERN-PH-EP-2014-200; arXiv:1408.6510.  
*doi: 10.1140/epjc/s10052-014-3168-9.*
- ATLAS Collaboration.  
**A neural network clustering algorithm for the ATLAS silicon pixel detector.**  
*Journal of Instrumentation*, 9(09):P09009, and PUBDB-2014-03623, CERN-PH-EP-2014-120; arXiv:1406.7690.  
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- ATLAS Collaboration.  
**A study of heavy flavor quarks produced in association with top quark pairs at  $\sqrt{s} = 7$  TeV using the ATLAS detector.**  
*Physical review / D*, 89:072012, and DESY-2014-02661, CERN-PH-EP-2013-030; arXiv:1304.6386.  
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- ATLAS Collaboration.  
**Comprehensive measurements of t-channel single top-quark production cross sections at  $\sqrt{s} = 7$  TeV with the ATLAS detector.**  
*Physical review / D*, 90(11):112006, and PUBDB-2014-04561, CERN-PH-EP-2014-133; arXiv:1406.7844.  
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**Electron and photon energy calibration with the ATLAS detector using LHC Run 1 data.**  
*The European physical journal / C*, 74(10):3071, and PUBDB-2014-03805, CERN-PH-EP-2014-153; arXiv:1407.5063.  
*doi: 10.1140/epjc/s10052-014-3071-4.*
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**Electron reconstruction and identification efficiency measurements with the ATLAS detector using the 2011 LHC proton-proton collision data.**  
*The European physical journal / C*, 74(7):2941, and DESY-2014-03161, CERN-PH-EP-2014-040; arXiv:1404.2240.  
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**Erratum: Search for new Phenomena in Final States with large Jet Multiplicities and missing Transverse momentum at  $\sqrt{s} = 8$  TeV Proton-Proton Collisions using the ATLAS Experiment.**  
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**Evidence for Electroweak Production of  $W^\pm W^\pm jj$  in pp Collisions at  $\sqrt{s} = 8$  TeV with the ATLAS Detector.**  
*Physical review letters*, 113:141803, and PUBDB-2014-03724, CERN-PH-EP-2014-079; arXiv:1405.6241.  
*doi: 10.1103/PhysRevLett.113.141803.*
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**Fiducial and differential cross sections of Higgs boson production measured in the four-lepton decay channel in pp collisions at  $\sqrt{s}=8$  TeV with the ATLAS detector.**  
*Physics letters / B*, 738:234, and PUBDB-2014-03725, CERN-PH-EP-2014-186; arXiv:1408.3226.  
*doi: 10.1016/j.physletb.2014.09.054.*
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**Flavour tagged time dependent angular analysis of the  $B_s \rightarrow J/\psi \phi$  decay and extraction of  $\Delta\Gamma_s$  and the weak phase  $\phi_s$  in ATLAS.**  
*Physical review / D*, 90(5):052007, and PUBDB-2014-03707, CERN-PH-EP-2014-43; arXiv:1407.1796.  
*doi: 10.1103/PhysRevD.90.052007.*

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**Jet Energy Measurement and its Systematic Uncertainty in Proton - Proton Collisions at  $\sqrt{s} = 7$  TeV with the ATLAS Detector.**

*The European physical journal / C*, 75(1):17, and PUBDB-2015-00862, CERN-PH-EP-2013-222; arXiv:1406.0076.  
doi: 10.1140/epjc/s10052-014-3190-y.

ATLAS Collaboration.

**Light-Quark and Gluon Jet Discrimination in pp Collisions at  $\sqrt{s} = 7$  TeV with the ATLAS Detector.**

*The European physical journal / C*, 74(8):3023, and PUBDB-2015-01058, CERN-PH-EP-2014-058; arXiv:1405.6583.  
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ATLAS Collaboration.

**Measurement of  $\chi_{c1}$  and  $\chi_{c2}$  production with  $\sqrt{s} = 7$  TeV pp collisions at ATLAS.**

*Journal of high energy physics*, 2014(7):154, and DESY-2014-03160, CERN-PH-EP-2013-202; arXiv:1404.7035.  
doi: 10.1007/JHEP07(2014)154.

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**Measurement of differential production cross-sections for a Z boson in association with b-jets in 7 TeV proton-proton collisions with the ATLAS detector.**

*Journal of high energy physics*, 10:141, and PUBDB-2014-04114, CERN-PH-EP-2014-118; arXiv:1407.3643.  
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**Measurement of dijet cross sections in pp collisions at 7 TeV centre-of-mass energy using the ATLAS detector.**

*Journal of high energy physics*, 2014(5):59, and DESY-2014-02927, CERN-PH-EP-2013-192; arXiv:1312.3524.  
doi: 10.1007/JHEP05(2014)059.

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**Measurement of distributions sensitive to the underlying event in inclusive Z-boson production in pp collisions at  $\sqrt{s} = 7$  TeV with the ATLAS detector.**

*The European physical journal / C*, 74(12):3195, and PUBDB-2014-04584, CERN-PH-EP-2014-162; arXiv:1409.3433.  
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ATLAS Collaboration.

**Measurement of event-plane correlations in  $\sqrt{s}_{NN}=2.76$  TeV lead-lead collisions with the ATLAS detector.**

*Physical review / C*, 90:024905, and PUBDB-2014-03510, CERN-PH-EP-2014-021.  
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ATLAS Collaboration.

**Measurement of Flow Harmonics with Multi-Particle Cumulants in Pb+Pb Collisions at  $\sqrt{s}_{NN} = 2.76$  TeV with the ATLAS Detector.**

*The European physical journal / C*, 74(11):3157, and PUBDB-2015-01036, CERN-PH-EP-2014-171; arXiv:1408.4342.  
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ATLAS Collaboration.

**Measurement of Four-Lepton Production at the Z Resonance in pp Collisions at  $\sqrt{s} = 7$  and 8 TeV with ATLAS.**

*Physical review letters*, 112(23):231806, and DESY-2014-02895, CERN-PH-EP-2014-047; arXiv:1403.5657.  
doi: 10.1103/PhysRevLett.112.231806.

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**Measurement of Higgs boson production in the diphoton decay channel in pp collisions at center-of-mass energies of 7 and 8 TeV with the ATLAS detector.**

*Physical review / D*, 90(11):112015, and PUBDB-2015-00219, CERN-PH-EP-2014-198; arXiv:1408.7084.  
doi: 10.1103/PhysRevD.90.112015.

ATLAS Collaboration.

**Measurement of inclusive jet charged-particle fragmentation functions in Pb+Pb collisions at  $\sqrt{s}_{NN} = 2.76$  TeV with the ATLAS detector.**

*Physics letters / B*, 739:320, and PUBDB-2014-04093, CERN-PH-EP-2014-101; arXiv:1406.2979.  
doi: 10.1016/j.physletb.2014.10.065.

ATLAS Collaboration.

**Measurement of long-range pseudorapidity correlations and azimuthal harmonics in  $\sqrt{s}_{NN} = 5.02$  TeV proton-lead collisions with the ATLAS detector.**

*Physical review / C*, 90:044906, and DESY-2014-03770, CERN-PH-EP-2014-201; arXiv:1409.1792.  
doi: 10.1103/PhysRevC.90.044906.

ATLAS Collaboration.

**Measurement of the Centrality and Pseudorapidity Dependence of the Integrated Elliptic Flow in lead-lead Collisions at  $\sqrt{s}_{NN} = 2.76$  TeV with the ATLAS detector.**

*The European physical journal / C*, 74(8):2982, and PUBDB-2015-01038, CERN-PH-EP-2014-065; arXiv:1405.3936.  
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ATLAS Collaboration.

**Measurement of the cross section of high transverse momentum  $Z \rightarrow b\bar{b}$  production in proton-proton collisions at  $\sqrt{s}=8$  TeV with the ATLAS Detector.**

*Physics letters / B*, 738:25, and PUBDB-2014-03644, CERN-PH-EP-2014-064; arXiv:1404.7042.  
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**Measurement of the cross-section of high transverse momentum vector bosons reconstructed as single jets and studies of jet substructure in pp collisions at  $\sqrt{s} = 7$  TeV with the ATLAS detector.**

*New journal of physics*, 16(11):113013, and PUBDB-2014-04122, CERN-PH-EP-2014-123; arXiv:1407.0800.  
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ATLAS Collaboration.

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*Journal of high energy physics*, 04:42, and DESY-2014-02591, CERN-PH-EP-2013-227.  
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ATLAS Collaboration.

**Measurement of the Higgs boson mass from the  $H \rightarrow \gamma\gamma$  and  $H \rightarrow ZZ^* \rightarrow 4\ell$  channels with the ATLAS detector using 25  $\text{fb}^{-1}$  of  $pp$  collision data.**

*Physical review / D*, 90(5):052004, and PUBDB-2014-03509, CERN-PH-EP-2014-122.

*doi: 10.1103/PhysRevD.90.052004.*

ATLAS Collaboration.

**Measurement of the inclusive isolated prompt photons cross section in  $pp$  collisions at  $\sqrt{s}=7 \text{ TeV}$  with the ATLAS detector using 4.6 $\text{fb}^{-1}$ .**

*Physical review / D*, 89(5):052004, and PUBDB-2015-01212, arXiv:1311.1440; CERN-PH-EP-2013-164.

*doi: 10.1103/PhysRevD.89.052004.*

ATLAS Collaboration.

**Measurement of the low-mass Drell-Yan differential cross section at  $\sqrt{s} = 7 \text{ TeV}$  using the ATLAS detector.**

*Journal of high energy physics*, 2014(6):112, and DESY-2014-02928, CERN-PH-EP-2014-020; arXiv:1404.1212.

*doi: 10.1007/JHEP06(2014)112.*

ATLAS Collaboration.

**Measurement of the mass difference between top and anti-top quarks in  $pp$  collisions at  $\sqrt{s} = 7 \text{ TeV}$  using the ATLAS detector.**

*Physics letters / B*, 728:363, and DESY-2014-00169, CERN-PH-EP-2013-171.

*doi: 10.1016/j.physletb.2013.12.010.*

ATLAS Collaboration.

**Measurement of the muon reconstruction performance of the ATLAS detector using 2011 and 2012 LHC proton-proton collision data.**

*The European physical journal / C*, 74(11):3130, and PUBDB-2014-04482, CERN-PH-EP-2014-151; arXiv:1407.3935.

*doi: 10.1140/epjc/s10052-014-3130-x.*

ATLAS Collaboration.

**Measurement of the parity-violating asymmetry parameter  $\alpha_b$  and the helicity amplitudes for the decay  $\Lambda_b^0 \rightarrow J/\psi \Lambda^0$  with the ATLAS detector.**

*Physical review / D*, 89:092009, and DESY-2014-02877, CERN-PH-EP-2014-034; arXiv:1404.1071.

*doi: 10.1103/PhysRevD.89.092009.*

ATLAS Collaboration.

**Measurement of the Production and Lepton charge asymmetry of W Bosons in Pb+Pb Collisions at  $\sqrt{s_{NN}} = 2.76 \text{ TeV}$  with the ATLAS Detector.**

*The European physical journal / C*, 75(1):23, and PUBDB-2015-01026, CERN-PH-EP-2014-156; arXiv:1408.4674.

*doi: 10.1140/epjc/s10052-014-3231-6.*

ATLAS Collaboration.

**Measurement of the production cross section of prompt  $J/\psi$  mesons in association with a  $W^\pm$  boson in  $pp$  collisions at  $\sqrt{s} = 7 \text{ TeV}$  with the ATLAS detector.**

*Journal of high energy physics*, 2014(4):172, and DESY-2014-02675, CERN-PH-EP-2013-184; arXiv:1401.2831.

*doi: 10.1007/JHEP04(2014)172.*

ATLAS Collaboration.

**Measurement of the production cross-section of  $\psi(2S) \rightarrow J/\psi(\rightarrow \mu^+ \mu^-)\pi^+ \pi^-$  in  $pp$  collisions at  $\sqrt{s} = 7 \text{ TeV}$  at ATLAS.**  
*Journal of high energy physics*, 2014(9):79, and PUBDB-2014-03645, CERN-PH-EP-2014-095; arXiv:1407.5532.  
*doi: 10.1007/JHEP09(2014)079.*

ATLAS Collaboration.

**Measurement of the production of a  $W$  boson in association with a charm quark in  $pp$  collisions at  $\sqrt{s} = 7 \text{ TeV}$  with the ATLAS detector.**

*Journal of high energy physics*, 2014(5):68, and DESY-2014-02875, CERN-PH-EP-2014-007; arXiv:1402.6263.  
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*Journal of high energy physics*, 1402(2):107, and DESY-2014-02308, arXiv:1311.6724.  
*doi: 10.1007/JHEP02(2014)107.*

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**Measurement of the total cross section from elastic scattering in  $pp$  collisions at  $\sqrt{s} = 7 \text{ TeV}$  with the ATLAS detector.**

*Nuclear physics / B*, B889:486, and PUBDB-2014-04116, CERN-PH-EP-2014-177; arXiv:1408.5778.  
*doi: 10.1016/j.nuclphysb.2014.10.019.*

ATLAS Collaboration.

**Measurement of the  $t\bar{t}$  production cross-section using  $e\mu$  events with b-tagged jets in  $pp$  collisions at  $\sqrt{s} = 7$  and  $8 \text{ TeV}$  with the ATLAS detector.**

*The European physical journal / C*, 74(10):3109, and PUBDB-2015-01047, CERN-EP-2014-124; arXiv:1406.5375.  
*doi: 10.1140/epjc/s10052-014-3109-7.*

ATLAS Collaboration.

**Measurement of the Underlying Event in Jet Events from 7 TeV Proton-Proton Collisions with the ATLAS Detector.**

*The European physical journal / C*, 74(8):2965, and PUBDB-2015-01057, CERN-PH-EP-2014-077; arXiv:1406.0392.  
*doi: 10.1140/epjc/s10052-014-2965-5.*

ATLAS Collaboration.

**Measurement of the WW+WZ cross section and limits on anomalous triple gauge couplings using final states with one lepton, missing transverse momentum, and two jets with the ATLAS detector at  $\sqrt{s} = 7 \text{ TeV}$ .**

*Journal of high energy physics*, 2015(1):49, and PUBDB-2015-01027, CERN-PH-EP-2014-244; arXiv:1410.7238.  
*doi: 10.1007/JHEP01(2015)049.*

ATLAS Collaboration.

**Measurement of the  $Z/\gamma^*$  boson transverse momentum distribution in  $pp$  collisions at  $\sqrt{s} = 7 \text{ TeV}$  with the ATLAS detector.**

*Journal of high energy physics*, 2014(9):145, and PUBDB-2014-03723, CERN-PH-EP-2014-075; arXiv:1406.3660.  
*doi: 10.1007/JHEP09(2014)145.*

ATLAS Collaboration.

**Measurements of fiducial and differential cross sections for Higgs boson production in the diphoton decay channel at  $\sqrt{s} = 8$  TeV with ATLAS.**

*Journal of high energy physics*, 2014(9):112, and DESY-2014-03771, CERN-PH-EP-2014-148; arXiv:1407.4222. doi: 10.1007/JHEP09(2014)112.

ATLAS Collaboration.

**Measurements of Higgs Boson Production and Couplings in the Four-Lepton Channel in  $pp$  Collisions at Center-of-Mass Energies of 7 and 8 TeV with the ATLAS Detector.**

*Physical review / D*, 91(1):012006, and PUBDB-2015-00863, CERN-PH-EP-2014-170; arXiv:1408.5191. doi: 10.1103/PhysRevD.91.012006.

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**Measurements of jet vetoes and azimuthal decorrelations in di-jet events produced in  $pp$  collisions at  $\sqrt{s} = 7$  TeV using the ATLAS detector.**

*The European physical journal / C*, 74:3117, and PUBDB-2014-04117, CERN-PH-EP-2014-132; arXiv:1407.5756. doi: DOI 10.1140/epjc/s10052-014-3117-7.

ATLAS Collaboration.

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*Physical review / D*, 90(7):072004, and PUBDB-2014-03800, CERN-PH-EP-2014-099; arXiv:1407.0371. doi: 10.1103/PhysRevD.90.072004.

ATLAS Collaboration.

**Measurements of spin correlation in top-antitop quark events from proton-proton collisions at  $\sqrt{s} = 7$  TeV using the ATLAS detector.**

*Physical review / D*, 90(11):112016, and PUBDB-2015-00098, CERN-PH-EP-2014-116; arXiv:1407.4314. doi: 10.1103/PhysRevD.90.112016.

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**Monitoring and data quality assessment of the ATLAS liquid argon calorimeter.**

*Journal of Instrumentation*, 9:P07024, and DESY-2014-03155, CERN-PH-EP-2014-045; arXiv:1405.3768. doi: 10.1088/1748-0221/9/07/P07024.

ATLAS Collaboration.

**Muon reconstruction efficiency and momentum resolution of the ATLAS experiment in proton-proton collisions at  $\sqrt{s} = 7$  TeV in 2010.**

*The European physical journal / C*, 74:3034, and PUBDB-2014-03757, CERN-PH-EP-2013-154; arXiv:1404.4562. doi: 10.1140/epjc/s10052-014-3034-9.

ATLAS Collaboration.

**Observation of an Excited  $B_c^+$  Meson State with the ATLAS Detector.**

*Physical review letters*, 113(21):212004, and PUBDB-2014-04438, CERN-PH-EP-2017; arXiv:1407.1032. doi: 10.1103/PhysRevLett.113.212004.

ATLAS Collaboration.

**Operation and performance of the ATLAS semiconductor tracker.**

*Journal of Instrumentation*, 9(08):P08009, and DESY-2014-03258, arXiv: 1404.7473; CERN-PH-EP-2014-049. doi: 10.1088/1748-0221/9/08/P08009.

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*Physical review / D*, 89(3):032002, and DESY-2014-02280. doi: 10.1103/PhysRevD.89.032002.

ATLAS Collaboration.

**Search for contact interactions and large extra dimensions in the dilepton channel using proton-proton collisions at  $\sqrt{s} = 8$  TeV with the ATLAS detector.**

*The European physical journal / C*, 74(12):3134, and PUBDB-2014-04585, CERN-PH-EP-2014-135; arXiv:1407.2410. doi: 10.1140/epjc/s10052-014-3134-6.

ATLAS Collaboration.

**Search for dark matter in events with a hadronically decaying W or Z boson and missing transverse momentum in  $pp$  collisions at  $\sqrt{s}=8$  TeV with the ATLAS detector.**

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