

# Andres Tiko

## List of Publications by Year in descending order

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Version: 2024-02-01

369  
papers

19,664  
citations

10389

72  
h-index

19749

117  
g-index

387  
all docs

387  
docs citations

387  
times ranked

9532  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Precise determination of the mass of the Higgs boson and tests of compatibility of its couplings with the standard model predictions using proton collisions at 7 and 8 $\sqrt{s}$ TeV. European Physical Journal C, 2015, 75, 212. | 3.9 | 541       |
| 2  | Event generator tunes obtained from underlying event and multiparton scattering measurements. European Physical Journal C, 2016, 76, 155.   | 3.9 | 499       |
| 3  | Study of high-p T charged particle suppression in PbPb compared to pp collisions at $\sqrt{s_{NN}}=2.76$ TeV. European Physical Journal C, 2012, 72, 1.   | 3.9 | 369       |
| 4  | Particle-flow reconstruction and global event description with the CMS detector. Journal of Instrumentation, 2017, 12, P10003-P10003.   | 1.2 | 348       |
| 5  | Observation of the diphoton decay of the Higgs boson and measurement of its properties. European Physical Journal C, 2014, 74, 3076.  | 3.9 | 342       |
| 6  | Observation of a new boson with mass near 125 GeV in pp collisions at $\sqrt{s}=7$ and 8 TeV. Journal of High Energy Physics, 2013, 2013, 1.  | 4.7 | 320       |
| 7  | Search for dark matter, extra dimensions, and unparticles in monojet events in proton-proton collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2015, 75, 235.  | 3.9 | 320       |
| 8  | The CMS trigger system. Journal of Instrumentation, 2017, 12, P01020-P01020.  | 1.2 | 307       |
| 9  | Measurement of the properties of a Higgs boson in the four-lepton final state. Physical Review D, 2014, 89, .   | 4.7 | 299       |
| 10 | Measurement of the $B \rightarrow \mu^+ \mu^- s$ branching fraction and search for $B \rightarrow \mu^+ \mu^- c$ . Physical Review Letters, 2014, 113, 081801.  | 7.8 | 282       |
| 11 | Searches for electroweak production of charginos, neutralinos, and sleptons decaying to leptons and W, Z, and Higgs bosons in pp collisions at 8 TeV. European Physical Journal C, 2014, 74, 3036.                                  | 3.9 | 241       |
| 12 | Identification of heavy-flavour jets with the CMS detector in pp collisions at 13 TeV. Journal of Instrumentation, 2018, 13, P05011-P05011.   | 1.2 | 241       |
| 13 | Jet energy scale and resolution in the CMS experiment in pp collisions at 8 TeV. Journal of Instrumentation, 2017, 12, P02014-P02014.   | 1.2 | 216       |
| 14 | Suppression of non-prompt $J/\psi$ , prompt $J/\psi$ , and $\Upsilon(1S)$ in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Journal of High Energy Physics, 2012, 2012, 1.  | 4.7 | 200       |
| 15 | Extraction and validation of a new set of CMS pythia8 tunes from underlying-event measurements. European Physical Journal C, 2020, 80, 4.   | 3.9 | 198       |
| 16 | Measurement of the differential cross section for top quark pair production in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2015, 75, 542.   | 3.9 | 191       |
| 17 | Measurement of the elliptic anisotropy of charged particles produced in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review C, 2013, 87, .   | 2.9 | 185       |
| 18 | Centrality dependence of dihadron correlations and azimuthal anisotropy harmonics in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. European Physical Journal C, 2012, 72, 1.   | 3.9 | 181       |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | Search for heavy neutrinos and $W$ bosons with right-handed couplings in proton-proton collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2014, 74, 3149. | 3.9 | 179       |
| 20 | Evidence for Collective Multiparticle Correlations in $p\text{-Pb}$ collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2015, 115, 012301.             | 7.8 | 177       |

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| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 37 | Observation of Charge-Dependent Azimuthal Correlations in $W$ Boson in $pp$ Collisions at $\sqrt{s} = 7, 8, \text{ and } 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.   | 7.8 | 108       |
| 38 | Observation of Charge-Dependent Azimuthal Correlations in $W$ Boson in $pp$ Collisions at $\sqrt{s} = 7, 8, \text{ and } 13$ TeV. Physical Review Letters, 2017, 118, 122301.  | 7.8 | 108       |
| 39 | Charged-particle nuclear modification factors in PbPb and pPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV. Journal of High Energy Physics, 2017, 2017, 1.   | 4.7 | 103       |
| 40 | Measurements of properties of the Higgs boson decaying into the four-lepton final state in $pp$ collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.  | 4.7 | 101       |
| 41 | Search for new physics in the multijet and missing transverse momentum final state in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2014, 2014, 1.   | 4.7 | 100       |
| 42 | Dependence on pseudorapidity and on centrality of charged hadron production in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Journal of High Energy Physics, 2011, 2011, 1.   | 4.7 | 99        |
| 43 | Search for supersymmetry in hadronic final states using $M_{T2}$ in $pp$ collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.  | 4.7 | 95        |
| 44 | Searches for invisible decays of the Higgs boson in $pp$ collisions at $\sqrt{s} = 7, 8, \text{ and } 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.  | 4.7 | 95        |
| 45 | Observation of Charge-Dependent Azimuthal Correlations in $W$ Boson Production Cross Sections in $pp$ Collisions at $\sqrt{s} = 7, 8, \text{ and } 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.                                   | 7.8 | 94        |
| 46 | Search for a Higgs boson in the mass range from 145 to 1000 GeV decaying to a pair of $W$ or $Z$ bosons. Journal of High Energy Physics, 2015, 2015, 1.  | 4.7 | 92        |
| 47 | Measurement of the inelastic proton-proton cross section at $\sqrt{s} = 7, 8, \text{ and } 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 722, 5-27.                                       | 4.7 | 88        |
| 48 | Measurements of differential and double-differential Drell-Yan cross sections in proton-proton collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2015, 75, 147.   | 3.9 | 88        |
| 49 | Observation of Electroweak Production of Same-Sign $W$ Boson Pairs in the Two Jet and Two Same-Sign Lepton Final State in Proton-Proton Collisions at $\sqrt{s} = 7, 8, \text{ and } 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 7.8 | 86        |
| 50 | Search for high-mass resonances in dilepton final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.  | 4.7 | 86        |
| 51 | Measurement of jet fragmentation into charged particles in $pp$ and PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Journal of High Energy Physics, 2012, 2012, 1.  | 4.7 | 85        |
| 52 | Evidence of $b$ -jet Quenching in PbPb Collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2014, 113, 132301.   | 7.8 | 85        |
| 53 | Study of double parton scattering using $W + 2$ -jet events in proton-proton collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2014, 2014, 1.  | 4.7 | 85        |
| 54 | Search for massive resonances in dijet systems containing jets tagged as $W$ or $Z$ boson decays in $pp$ collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2014, 2014, 1.  | 4.7 | 85        |

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|----|---|-----|-----------|
| 55 | Study of the production of charged pions, kaons, and protons in pPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV. European Physical Journal C, 2014, 74, 2847.  | 3.9 | 85        |
| 56 | Measurement of the single-top-quark t-channel cross section in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.  | 4.7 | 83        |
| 57 | Measurement of the differential cross section and charge asymmetry for inclusive $\mathit{p} \rightarrow \mathit{W}^{\pm} + X$ production at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 469.      | 3.9 | 83        |
| 58 | Suppression and azimuthal anisotropy of prompt and nonprompt $J/\psi$ production in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. European Physical Journal C, 2017, 77, 252.                                    | 3.9 | 82        |
| 59 | $J/\psi$ and $\Upsilon(2S)$ production in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.   | 4.7 | 81        |
| 60 | Search for neutral MSSM Higgs bosons decaying to a pair of tau leptons in pp collisions. Journal of High Energy Physics, 2014, 2014, 1.   | 4.7 | 81        |
| 61 | Search for a charged Higgs boson in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.   | 4.7 | 81        |
| 62 | Study of Vector Boson Scattering and Search for New Physics in Events with Two Same-Sign Leptons and Two Jets. Physical Review Letters, 2015, 114, 051801.  | 7.8 | 80        |
| 63 | Search for physics beyond the standard model in dilepton mass spectra in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.   | 4.7 | 78        |
| 64 | Search for new physics in final states with an energetic jet or a hadronically decaying $W$ boson and transverse momentum imbalance at $\sqrt{s_{NN}} = 2.76$ TeV. Journal of High Energy Physics, 2014, 2014, 1. | 4.7 | 78        |
| 65 | Studies of azimuthal dihadron correlations in ultra-central PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Journal of High Energy Physics, 2014, 2014, 1.   | 4.7 | 77        |
| 66 | Search for Top-Quark Partners with Charge $5/3$ in the Same-Sign Dilepton Final State. Physical Review Letters, 2014, 112, 171801.  | 7.8 | 76        |
| 67 | Study of exclusive two-photon production of $W+W^*$ in pp collisions at $\sqrt{s} = 7$ TeV and constraints on anomalous quartic gauge couplings. Journal of High Energy Physics, 2013, 2013, 1.                   | 4.7 | 75        |
| 68 | Studies of dijet transverse momentum balance and pseudorapidity distributions in pPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV. European Physical Journal C, 2014, 74, 1.  | 3.9 | 75        |
| 69 | Measurement of the $W^+W^-$ cross section in pp collisions at $\sqrt{s} = 8$ TeV and limits on anomalous gauge couplings. European Physical Journal C, 2016, 76, 401.   | 3.9 | 74        |
| 70 | Search for Narrow Resonances in Dijet Final States at $\sqrt{s} = 7$ TeV using the Novel CMS Technique of Data Scouting. Physical Review Letters, 2016, 117, 031802.  | 7.8 | 74        |
| 71 | Measurement of the $X(3872)$ production cross section via decays to $J/\psi + \Upsilon(1S)$ in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.                                | 4.7 | 73        |
| 72 | Search for a standard model Higgs boson produced in association with a top-quark pair and decaying to bottom quarks using a matrix element method. European Physical Journal C, 2015, 75, 251.                    | 3.9 | 73        |

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|----|---|-----|-----------|
| 73 | Search for Resonant Production of High-Mass Photon Pairs in Proton-Proton Collisions at $\sqrt{s} = 8$ TeV. Physical Review Letters, 2016, 117, 051802.   | 7.8 | 73        |
| 74 | Measurement of the t-channel single-top-quark production cross section and of the $ V_{tb} $ CKM matrix element in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2014, 2014, 1.                        | 4.7 | 70        |
| 75 | Measurement of Prompt $\mu^+\mu^-$ Production in Pb-Pb Collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2018, 120, 202301.  | 7.8 | 70        |
| 76 | Measurement of Prompt $\mu^+\mu^-$ Production in Pb-Pb Collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2018, 120, 202301.  | 7.8 | 70        |
| 77 | Measurement of the $\overline{\chi\chi}$ production cross section in the dilepton channel in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.  | 4.7 | 69        |
| 78 | Search for massive resonances decaying into pairs of boosted bosons in semi-leptonic final states at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2014, 2014, 1.   | 4.7 | 69        |
| 79 | Search for anomalous production of multilepton events in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.  | 4.7 | 68        |
| 80 | Search for a standard-model-like Higgs boson with a mass in the range 145 to 1000 GeV at the LHC. European Physical Journal C, 2013, 73, 2469.  | 3.9 | 68        |
| 81 | Measurement of the differential and double-differential Drell-Yan cross sections in proton-proton collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.  | 4.7 | 68        |
| 82 | Measurement of the inclusive 3-jet production differential cross section in proton-proton collisions at 7 TeV and determination of the strong coupling constant in the TeV range. European Physical Journal C, 2015, 75, 186. | 3.9 | 68        |
| 83 | Measurement of differential cross sections for the production of a pair of isolated photons in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2014, 74, 3129.  | 3.9 | 65        |
| 84 | Measurement of the sum of WW and WZ production with W+dijet events in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2013, 73, 2283.   | 3.9 | 64        |
| 85 | Search for Flavor-Changing Neutral Currents in Top-Quark Decays. Journal of High Energy Physics, 2018, 2018, 1.   | 4.7 | 64        |
| 86 | Search for new physics in same-sign dilepton events in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2016, 76, 439.   | 3.9 | 64        |
| 87 | Spin Correlations and Top-Quark Polarization Using Dilepton Final States in $t\bar{t}$ Production. Physical Review Letters, 2018, 120, 202301.  | 7.8 | 63        |
| 88 | Search for electroweak production of charginos and neutralinos in multilepton final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.                                 | 4.7 | 63        |
| 89 | Measurement of the $W+W\gamma$ cross section in pp collisions at $\sqrt{s} = 7$ TeV and limits on anomalous $WW\gamma^3$ and $WWZ$ couplings. European Physical Journal C, 2013, 73, 1.                                       | 3.9 | 62        |
| 90 | Measurement of differential cross sections for Higgs boson production in the diphoton decay channel in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 13.  | 3.9 | 62        |

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|-----|--|-----|-----------|
| 91  | Measurement of the $B_{\pm} A_{\pm}$ Meson Nuclear Modification Factor in Pb-Pb Collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1. Physical Review Letters, 2017, 119, 152301.  | 7.8 | 62        |
| 92  | Search for dark matter produced with an energetic jet or a hadronically decaying W or Z boson at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.   | 4.7 | 62        |
| 93  | Measurement of the inelastic proton-proton cross section at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.  | 4.7 | 62        |
| 94  | Measurement of prompt $J/\psi$ pair production in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2014, 2014, 1.  | 4.7 | 61        |
| 95  | Measurement of the ratio of the inclusive 3-jet cross section to the inclusive 2-jet cross section in pp collisions at $\sqrt{s} = 7$ TeV and first determination of the strong coupling constant in $J/\psi$ production. Journal of High Energy Physics, 2014, 2014, 1. | 3.9 | 60        |
| 96  | Measurement of $J/\psi$ production and $J/\psi$ production in association with a Z boson in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.  | 7.8 | 60        |
| 97  | Search for anomalous $t\bar{t}$ production in the highly-boosted all-hadronic final state. Journal of High Energy Physics, 2012, 2012, 1.  | 4.7 | 58        |
| 98  | Jet production rates in association with W and Z bosons in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.   | 4.7 | 58        |
| 99  | Studies of jet mass in dijet and W/Z + jet events. Journal of High Energy Physics, 2013, 2013, 1.  | 4.7 | 58        |
| 100 | Interpretation of searches for supersymmetry with simplified models. Physical Review D, 2013, 88, .  | 4.7 | 58        |
| 101 | Nuclear effects on the transverse momentum spectra of charged particles in pPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV. European Physical Journal C, 2015, 75, 237.   | 3.9 | 58        |

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| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 109 | Measurement of the double-differential inclusive jet cross section in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2016, 76, 451.   | 3.9 | 55        |
| 110 | Constraints on parton distribution functions and extraction of the strong coupling constant from the inclusive jet cross section in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2015, 75, 288.   | 3.9 | 54        |
| 111 | Measurement and QCD analysis of double-differential inclusive jet cross sections in pp collisions at $\sqrt{s} = 8$ TeV and cross section ratios to 2.76 and 7 TeV. Journal of High Energy Physics, 2017, 2017, 1.   | 4.7 | 54        |
| 112 | Search for Charged Higgs Bosons Produced via Vector Boson Fusion and Decaying into a Pair of W and Z Bosons Using pp Collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2017, 119, 141802.  | 7.8 | 54        |
| 113 | Measurement of prompt and nonprompt $J/\psi$ production in pp and pp collisions at $\sqrt{s} = 5.02$ TeV. European Physical Journal C, 2017, 77, 269.  | 3.9 | 53        |
| 114 | Measurement of the $\tau^+\tau^-$ production cross section in the dilepton channel in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2014, 2014, 1.  | 4.7 | 52        |
| 115 | Measurement of double-differential cross sections for top quark pair production in pp collisions at $\sqrt{s} = 8$ TeV and impact on parton distribution functions. European Physical Journal C, 2017, 77, 459.  | 3.9 | 52        |
| 116 | Measurements of the $\sigma(\text{pp} \rightarrow Z\gamma Z)$ production cross section and the $\sigma(\text{pp} \rightarrow Z\gamma Z)$ branching fraction, and constraints on anomalous triple gauge couplings at. European Physical Journal C, 2018, 78, 165. | 3.9 | 52        |
| 117 | Search for exclusive or semi-exclusive $\tau^+\tau^-$ production and observation of exclusive and semi-exclusive $e^+e^-$ production in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.                                      | 4.7 | 51        |
| 118 | Search for the associated production of the Higgs boson with a top-quark pair. Journal of High Energy Physics, 2014, 2014, 1.  | 4.7 | 51        |
| 119 | Study of the underlying event at forward rapidity in pp collisions at $\sqrt{s} = 0.9, 2.76, 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.  | 4.7 | 50        |
| 120 | Search for new physics with jets and missing transverse momentum in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2011, 2011, 1.  | 4.7 | 49        |
| 121 | Search for leptonic decays of $W$ bosons in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.  | 4.7 | 49        |
| 122 | Measurement of pseudorapidity distributions of charged particles in proton-proton collisions at $\sqrt{s} = 8$ TeV by the CMS and TOTEM experiments. European Physical Journal C, 2014, 74, 1.   | 3.9 | 49        |
| 123 | Search for new physics in events with same-sign dileptons and jets in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2014, 2014, 1.  | 4.7 | 48        |
| 124 | Observation of $Y(1S)$ pair production in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2017, 2017, 1.   | 4.7 | 48        |
| 125 | Measurement of the cross section and angular correlations for associated production of a Z boson with b hadrons in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.   | 4.7 | 47        |
| 126 | Search for Top Squarks in $R$ -Parity-Violating Supersymmetry Using Three or More Leptons and b-Tagged Jets. Physical Review Letters, 2013, 111, 221801.   | 7.8 | 47        |



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|-----|---|-----|-----------|
| 127 | Search for the $\chi$ particle in proton-proton collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.  | 7.8 | 47        |
| 128 | Search for the $\chi$ particle in proton-proton collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.  | 7.8 | 47        |
| 129 | Search for narrow resonances and quantum black holes in inclusive and b-tagged dijet mass spectra from pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.                            | 4.7 | 46        |
| 130 | Measurement of diffractive dissociation cross sections in proton-proton collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.  | 4.7 | 46        |
| 131 | Search for disappearing tracks in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.  | 4.7 | 46        |
| 132 | Search for heavy bottom-like quarks in $4.9 \text{ fb}^{-1}$ of pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.   | 4.7 | 45        |
| 133 | Search for Top Squark and Higgsino Production Using Diphoton Higgs Boson Decays. Physical Review Letters, 2014, 112, 161802.  | 7.8 | 45        |
| 134 | Pseudorapidity distribution of charged hadrons in proton-proton collisions at $\sqrt{s} = 7$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 751, 143-163.               | 4.1 | 45        |
| 135 | Search for microscopic black holes in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2013, 2013, 1.   | 4.7 | 44        |
| 136 | Search for a light charged Higgs boson decaying to $c \bar{s}$ in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1-37.  | 4.7 | 44        |
| 137 | Search for Displaced Supersymmetry in Events with an Electron and a Muon with Large Impact Parameters. Physical Review Letters, 2015, 114, 061801.  | 7.8 | 44        |
| 138 | Search for decays of stopped long-lived particles produced in proton-proton collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2015, 75, 151.   | 3.9 | 44        |
| 139 | Search for pair-produced dijet resonances in four-jet final states in proton-proton collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.  | 7.8 | 43        |
| 140 | Measurement of top quark-antiquark pair production in association with a W or Z boson in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2014, 74, 3060.  | 3.9 | 43        |
| 141 | Identification techniques for highly boosted W bosons that decay into hadrons. Journal of High Energy Physics, 2014, 2014, 1.   | 4.7 | 43        |
| 142 | Constraints on the pMSSM, AMSB model and on other models from the search for long-lived charged particles in proton-proton collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2015, 75, 325.              | 3.9 | 43        |
| 143 | Measurement of the top-quark mass in $t \bar{t}$ events with dilepton final states in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2012, 72, 1.  | 3.9 | 42        |
| 144 | Evidence for exclusive $\hat{t} \bar{t} W + W \hat{a}^+$ production and constraints on anomalous quartic gauge couplings in pp collisions at $\sqrt{s} = 7$ and 8 TeV. Journal of High Energy Physics, 2016, 2016, 1. | 4.7 | 42        |

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|-----|--|-----|-----------|
| 145 | Search for low mass vector resonances decaying into quark-antiquark pairs in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.   | 4.7 | 42        |
| 146 | Search for electroweak production of charginos and neutralinos using leptonic final states in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.  | 4.7 | 41        |
| 147 | Measurement of the $t\bar{t}$ production cross section in the $e\bar{\nu}_e$ channel in proton-proton collisions at $\sqrt{s}=7$ and 8 TeV. Journal of High Energy Physics, 2016, 2016, 1.   | 4.7 | 41        |
| 148 | Measurement of the $t\bar{t}$ production cross section in the all-jets final state in pp collisions at $\sqrt{s}=8$ TeV. European Physical Journal C, 2016, 76, 128.   | 3.9 | 41        |
| 149 | Search for third-generation scalar leptoquarks and heavy right-handed neutrinos in final states with two tau leptons and two jets in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 41        |
| 150 | Search for same-sign top-quark pair production at $\sqrt{s}=7$ TeV and limits on flavour changing neutral currents in the top sector. Journal of High Energy Physics, 2011, 2011, 1.   | 4.7 | 40        |
| 151 | Measurement of the $t\bar{t}$ production cross section using events in the $e\bar{\nu}_e$ final state in pp collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2017, 77, 172.   | 3.9 | 40        |
| 152 | Search for Evidence of the Type-III Seesaw Mechanism in Multilepton Final States in Proton-Proton Collisions at $\sqrt{s}=13$ TeV. Physical Review Letters, 2017, 119, 221802.   | 7.8 | 40        |
| 153 | Inclusive Search for a Highly Boosted Higgs Boson Decaying to a Bottom Quark-Antiquark Pair. Physical Review Letters, 2018, 120, 071802.   | 7.8 | 40        |
| 154 | Inclusive b-jet production in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.  | 4.7 | 39        |
| 155 | Measurement of the $Z\bar{b}b$ -jet cross section in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.   | 4.7 | 39        |
| 156 | Search for the standard model Higgs boson produced in association with a top-quark pair in pp collisions at the LHC. Journal of High Energy Physics, 2013, 2013, 1.  | 4.7 | 39        |
| 157 | Measurement of the ZZ production cross section and search for anomalous couplings in $2\ell, 2\ell\gamma, \ell\ell\gamma^2$ final states in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.      | 4.7 | 39        |
| 158 | Measurement of the production cross sections for a Z boson and one or more b jets in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2014, 2014, 1.   | 4.7 | 39        |
| 159 | Observation of Correlated Azimuthal Anisotropy: Higher Harmonics in $pp$ Collisions at $\sqrt{s}=7$ TeV. Physical Review Letters, 2014, 113, 252301.   | 7.8 | 39        |
| 160 | Measurement of differential cross sections for $Z$ boson production in association with jets in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2018, 78, 965.   | 3.9 | 39        |
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