

# Lukas Bni

## List of Publications by Citations

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283  
papers

10,601  
citations

52  
h-index

86  
g-index

298  
ext. papers

11,784  
ext. citations

5  
avg. IF

0.59  
L-index

| #   | Paper   | IF  | Citations |
|-----|---|-----|-----------|
| 283 | 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 TeV. <i>European Physical Journal C</i> , <b>2015</b> , 75, 212 | 4.2 | 399       |
| 282 | Study of high-p T charged particle suppression in PbPb compared to pp collisions at ( $\sqrt{s_{\text{NN}}}=2.76\sim\text{TeV}$ ). <i>European Physical Journal C</i> , <b>2012</b> , 72, 1   | 4.2 | 316       |
| 281 | Observation of a new boson with mass near 125 GeV in pp collisions at ( $\sqrt{s}=7$ ) and 8 TeV. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1   | 5.4 | 261       |
| 280 | Search for dark matter, extra dimensions, and unparticles in monojet events in proton-proton collisions at [Formula: see text][Formula: see text]. <i>European Physical Journal C</i> , <b>2015</b> , 75, 235                           | 4.2 | 250       |
| 279 | Event generator tunes obtained from underlying event and multiparton scattering measurements. <i>European Physical Journal C</i> , <b>2016</b> , 76, 155  | 4.2 | 250       |
| 278 | Observation of the diphoton decay of the Higgs boson and measurement of its properties. <i>European Physical Journal C</i> , <b>2014</b> , 74, 3076   | 4.2 | 239       |
| 277 | Suppression of non-prompt $J/\psi$ and ( $\Upsilon$ )(1S) in PbPb collisions at ( $\sqrt{s_{\text{NN}}}=2.76$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1  | 5.4 | 184       |
| 276 | Searches for electroweak production of charginos, neutralinos, and sleptons decaying to leptons and W, Z, and Higgs bosons in pp collisions at 8 TeV. <i>European Physical Journal C</i> , <b>2014</b> , 74, 3036                       | 4.2 | 183       |
| 275 | Search for top-squark pair production in the single-lepton final state in pp collisions at ( $\sqrt{s}=8$ TeV). <i>European Physical Journal C</i> , <b>2013</b> , 73, 1  | 4.2 | 162       |
| 274 | Centrality dependence of dihadron correlations and azimuthal anisotropy harmonics in PbPb collisions at ( $\sqrt{s_{\text{NN}}}=2.76$ TeV). <i>European Physical Journal C</i> , <b>2012</b> , 72, 1                                    | 4.2 | 158       |
| 273 | Search for dark matter and large extra dimensions in monojet events in pp collisions at ( $\sqrt{s}=7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1   | 5.4 | 155       |
| 272 | Search for heavy neutrinos and [Formula: see text] bosons with right-handed couplings in proton-proton collisions at [Formula: see text]. <i>European Physical Journal C</i> , <b>2014</b> , 74, 3149                                   | 4.2 | 149       |
| 271 | Measurement of Higgs boson production and properties in the WW decay channel with leptonic final states. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1  | 5.4 | 144       |
| 270 | Study of the inclusive production of charged pions, kaons, and protons in pp collisions at ( $\sqrt{s}=0.9, 2.76, \text{ and } 7\sim\text{TeV}$ ). <i>European Physical Journal C</i> , <b>2012</b> , 72, 1                             | 4.2 | 133       |
| 269 | Search for invisible decays of Higgs bosons in the vector boson fusion and associated ZH production modes. <i>European Physical Journal C</i> , <b>2014</b> , 74, 2980  | 4.2 | 131       |
| 268 | Measurement of the inclusive W and Z production cross sections in pp collisions at ( $\sqrt{s}=7$ ) TeV with the CMS experiment. <i>Journal of High Energy Physics</i> , <b>2011</b> , 2011, 1  | 5.4 | 121       |
| 267 | A search for a doubly-charged Higgs boson in pp collisions at ( $\sqrt{s}=7$ TeV). <i>European Physical Journal C</i> , <b>2012</b> , 72, 1   | 4.2 | 111       |

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|-----|--|-----|-----|
| 266 | Measurement of differential top-quark-pair production cross sections in pp collisions at ( $\sqrt{s} = 7$ $\text{TeV}$ ). <i>European Physical Journal C</i> , <b>2013</b> , 73, 1   | 4.2 | 102 |
| 265 | Evidence for the 125 GeV Higgs boson decaying to a pair of $\tau$ leptons. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1   | 5.4 | 101 |
| 264 | Search for a light charged Higgs boson in top quark decays in pp collisions at ( $\sqrt{s} = 7$ ; $\text{TeV}$ ). <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1  | 5.4 | 101 |
| 263 | Measurement of the differential cross section for top quark pair production in pp collisions at [Formula: see text]. <i>European Physical Journal C</i> , <b>2015</b> , 75, 542  | 4.2 | 98  |
| 262 | Searches for long-lived charged particles in pp collisions at ( $\sqrt{s} = 7$ and 8 $\text{TeV}$ ). <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1   | 5.4 | 96  |
| 261 | Search for supersymmetry in hadronic final states using $M_{T2}$ in pp collisions at ( $\sqrt{s} = 7$ ) $\text{TeV}$ . <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1   | 5.4 | 92  |
| 260 | Dependence on pseudorapidity and on centrality of charged hadron production in PbPb collisions at ( $\sqrt{s_{\text{NN}}} = 2.76$ ) $\text{TeV}$ . <i>Journal of High Energy Physics</i> , <b>2011</b> , 2011, 1                   | 5.4 | 87  |
| 259 | Search for supersymmetry in hadronic final states with missing transverse energy using the variables and b-quark multiplicity in pp collisions at [Formula: see text]. <i>European Physical Journal C</i> , <b>2013</b> , 73, 2568 | 4.2 | 82  |
| 258 | Search for new physics in the multijet and missing transverse momentum final state in proton-proton collisions at ( $\sqrt{s} = 8$ $\text{TeV}$ ). <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1                   | 5.4 | 81  |
| 257 | Measurements of properties of the Higgs boson decaying into the four-lepton final state in pp collisions at ( $\sqrt{s} = 13$ ) $\text{TeV}$ . <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1                       | 5.4 | 77  |
| 256 | Search for massive resonances in dijet systems containing jets tagged as W or Z boson decays in pp collisions at ( $\sqrt{s} = 8$ $\text{TeV}$ ). <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1                    | 5.4 | 74  |
| 255 | Searches for invisible decays of the Higgs boson in pp collisions at ( $\sqrt{s} = 7, 8,$ and 13 $\text{TeV}$ ). <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1   | 5.4 | 74  |
| 254 | Search for a Higgs boson in the mass range from 145 to 1000 GeV decaying to a pair of W or Z bosons. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1   | 5.4 | 73  |
| 253 | Measurement of jet fragmentation into charged particles in pp and PbPb collisions at ( $\sqrt{s_{\text{NN}}} = 2.76$ ) $\text{TeV}$ . <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1                                | 5.4 | 73  |
| 252 | Study of the production of charged pions, kaons, and protons in pPb collisions at [Formula: see text]5.02 [Formula: see text]. <i>European Physical Journal C</i> , <b>2014</b> , 74, 2847   | 4.2 | 71  |
| 251 | Search for neutral MSSM Higgs bosons decaying to a pair of tau leptons in pp collisions. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1   | 5.4 | 70  |
| 250 | Measurement of the single-top-quark t-channel cross section in pp collisions at ( $\sqrt{s} = 7$ ) $\text{TeV}$ . <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1  | 5.4 | 70  |
| 249 | Measurement of the underlying event activity at the LHC with ( $\sqrt{s} = 7$ ) $\text{TeV}$ and comparison with ( $\sqrt{s} = 0.9$ ) $\text{TeV}$ . <i>Journal of High Energy Physics</i> , <b>2011</b> , 2011, 1                 | 5.4 | 70  |

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| 248 | Search for physics beyond the standard model in dilepton mass spectra in proton-proton collisions at ( $\sqrt{s}=8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1                        | 5-4 | 69 |
| 247 | $J/\psi$ and $\psi(2S)$ production in pp collisions at ( $\sqrt{s} = 7$ TeV). <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1   | 5-4 | 69 |
| 246 | Studies of dijet transverse momentum balance and pseudorapidity distributions in pPb collisions at ( $\sqrt{s_{\mathrm{NN}}} = 5.02$ ) TeV. <i>European Physical Journal C</i> , <b>2014</b> , 74, 1            | 4-2 | 67 |
| 245 | Search for anomalous production of multilepton events in pp collisions at ( $\sqrt{s} = 7$ , TeV). <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1  | 5-4 | 65 |
| 244 | Charged-particle nuclear modification factors in PbPb and pPb collisions at ( $\sqrt{s_{\mathrm{N};\mathrm{N}}}=5.02$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1                      | 5-4 | 64 |
| 243 | Measurement of the ( $\overline{t}t$ ) production cross section in the dilepton channel in pp collisions at ( $\sqrt{s}=7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1                 | 5-4 | 64 |
| 242 | Extraction and validation of a new set of CMS pythia8 tunes from underlying-event measurements. <i>European Physical Journal C</i> , <b>2020</b> , 80, 4  | 4-2 | 61 |
| 241 | Study of double parton scattering using W + 2-jet events in proton-proton collisions at ( $\sqrt{s} = 7$ TeV). <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1                                    | 5-4 | 61 |
| 240 | Search for a charged Higgs boson in pp collisions at ( $\sqrt{s}=8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1  | 5-4 | 61 |
| 239 | Studies of azimuthal dihadron correlations in ultra-central PbPb collisions at ( $\sqrt{s_{\mathrm{NN}}} = 2.76$ TeV). <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1                            | 5-4 | 60 |
| 238 | Search for massive resonances decaying into pairs of boosted bosons in semi-leptonic final states at ( $\sqrt{s} = 8$ TeV). <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1                       | 5-4 | 59 |
| 237 | Search for anomalous ( $\overline{t}t$ ) production in the highly-boosted all-hadronic final state. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1   | 5-4 | 57 |
| 236 | Study of exclusive two-photon production of $W+W$ in pp collisions at ( $\sqrt{s}=7$ ) TeV and constraints on anomalous quartic gauge couplings. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1  | 5-4 | 56 |
| 235 | Measurement of the $W+W$ cross section in pp collisions at ( $\sqrt{s} = 7$ TeV) and limits on anomalous $WW$ and $WWZ$ couplings. <i>European Physical Journal C</i> , <b>2013</b> , 73, 1                     | 4-2 | 56 |
| 234 | 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. <i>European Physical Journal C</i> , <b>2015</b> , 75, 251   | 4-2 | 55 |
| 233 | Search for new phenomena with the variable in the all-hadronic final state produced in proton-proton collisions at. <i>European Physical Journal C</i> , <b>2017</b> , 77, 710                                  | 4-2 | 54 |
| 232 | Search for ( $B_{\mathrm{s}}^0 \rightarrow \mu^+ \mu^-$ ) and $B^0 \rightarrow \mu^+ \mu^-$ decays. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1   | 5-4 | 52 |
| 231 | Measurements of differential and double-differential Drell-Yan cross sections in proton-proton collisions at [Formula: see text][Formula: see text]. <i>European Physical Journal C</i> , <b>2015</b> , 75, 147 | 4-2 | 50 |

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| 230 | Measurement of the ratio of the inclusive 3-jet cross section to the inclusive 2-jet cross section in pp collisions at ( $\sqrt{s} = 7 \text{ TeV}$ ) and first determination of the strong coupling constant in the TeV range. <i>European Physical Journal C</i> , <b>2013</b> , 73, 1 | 4.2 | 50 |
| 229 | Search for a standard-model-like Higgs boson with a mass in the range 145 to 1000 GeV at the LHC. <i>European Physical Journal C</i> , <b>2013</b> , 73, 2469  | 4.2 | 49 |
| 228 | Measurement of the t-channel single-top-quark production cross section and of the $ V_{tb} $ CKM matrix element in pp collisions at ( $\sqrt{s} = 8 \text{ TeV}$ ). <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1  | 5.4 | 48 |
| 227 | Measurement of the ( $t\bar{t}$ ) production cross section and the top quark mass in the dilepton channel in pp collisions at ( $\sqrt{s} = 7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2011</b> , 2011, 1  | 5.4 | 48 |
| 226 | Search for dark matter produced with an energetic jet or a hadronically decaying W or Z boson at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1  | 5.4 | 46 |
| 225 | Measurement of the relative prompt production rate of $t\bar{t}$ and $t\bar{t} + b\bar{b}$ in pp collisions at [Formula: see text]. <i>European Physical Journal C</i> , <b>2012</b> , 72, 2251  | 4.2 | 46 |
| 224 | Search for new physics with jets and missing transverse momentum in pp collisions at ( $\sqrt{s} = 7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2011</b> , 2011, 1   | 5.4 | 46 |
| 223 | Exclusive $t\bar{t} + b\bar{b}$ production in proton-proton collisions at ( $\sqrt{s} = 7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1  | 5.4 | 45 |
| 222 | Search for the associated production of the Higgs boson with a top-quark pair. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1   | 5.4 | 45 |
| 221 | Search for exclusive or semi-exclusive $t\bar{t}$ production and observation of exclusive and semi-exclusive $e^+e^-t\bar{t}$ production in pp collisions at ( $\sqrt{s}=7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1   | 5.4 | 45 |
| 220 | Measurement of the sum of WW and WZ production with W+dijet events in pp collisions at [Formula: see text]. <i>European Physical Journal C</i> , <b>2013</b> , 73, 2283  | 4.2 | 45 |
| 219 | Measurement of the X(3872) production cross section via decays to $J/\psi + \pi\pi$ in pp collisions at ( $\sqrt{s}=7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1  | 5.4 | 44 |
| 218 | Search for heavy bottom-like quarks in 4.9 fb $^{-1}$ of pp collisions at ( $\sqrt{s} = 7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1  | 5.4 | 44 |
| 217 | Measurement of the ( $\overline{t}t$ ) production cross section in the dilepton channel in pp collisions at ( $\sqrt{s} = 8 \text{ TeV}$ ). <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1  | 5.4 | 43 |
| 216 | Measurement of the differential and double-differential Drell-Yan cross sections in proton-proton collisions at ( $\sqrt{s} = 7 \text{ TeV}$ ). <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1  | 5.4 | 43 |
| 215 | Search for leptonic decays of $W^\pm$ bosons in pp collisions at ( $\sqrt{s} = 7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1   | 5.4 | 43 |
| 214 | Event activity dependence of ( $\Upsilon$ )(nS) production in ( $\sqrt{s_{NN}} = 5.02 \text{ TeV}$ ) pPb and ( $\sqrt{s} = 2.76 \text{ TeV}$ ) pp collisions. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1  | 5.4 | 42 |
| 213 | 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. <i>European Physical Journal C</i> , <b>2015</b> , 75, 186   | 4.2 | 41 |

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|-----|--|-----|----|
| 212 | Measurement of prompt $J/\psi$ pair production in pp collisions at $(\sqrt{s}) = 7$ TeV. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1   | 5-4 | 41 |
| 211 | Search for electroweak production of charginos and neutralinos using leptonic final states in pp collisions at $(\sqrt{s}=7)$ TeV. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1   | 5-4 | 41 |
| 210 | Search for electroweak production of charginos and neutralinos in multilepton final states in proton-proton collisions at $(\sqrt{s}=13)$ TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1   | 5-4 | 40 |
| 209 | Studies of jet mass in dijet and W/Z + jet events. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1   | 5-4 | 39 |
| 208 | Study of the underlying event at forward rapidity in pp collisions at $(\sqrt{s}=0.9, 2.76, \text{and } 7 \text{ TeV})$ . <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1  | 5-4 | 39 |
| 207 | Measurement of the ZZ production cross section and search for anomalous couplings in $2\mu\mu$ final states in pp collisions at $(\sqrt{s}=7)$ TeV. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1  | 5-4 | 39 |
| 206 | Search for same-sign top-quark pair production at $(\sqrt{s} = 7)$ TeV and limits on flavour changing neutral currents in the top sector. <i>Journal of High Energy Physics</i> , <b>2011</b> , 2011, 1  | 5-4 | 39 |
| 205 | Search for new physics in events with same-sign dileptons and jets in pp collisions at $(\sqrt{s}) = 8$ TeV. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1   | 5-4 | 38 |
| 204 | Search for microscopic black holes in pp collisions at $(\sqrt{s}=8)$ TeV. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1   | 5-4 | 38 |
| 203 | Measurement of the $[Formula: see text]$ cross section in pp collisions at $[Formula: see text]$ TeV and limits on anomalous gauge couplings. <i>European Physical Journal C</i> , <b>2016</b> , 76, 401   | 4-2 | 38 |
| 202 | Constraints on parton distribution functions and extraction of the strong coupling constant from the inclusive jet cross section in pp collisions at $[Formula: see text][Formula: see text]$ . <i>European Physical Journal C</i> , <b>2015</b> , 75, 288 | 4-2 | 37 |
| 201 | Measurement of the differential cross section and charge asymmetry for inclusive $[Formula: see text]$ production at $[Formula: see text]$ TeV. <i>European Physical Journal C</i> , <b>2016</b> , 76, 469   | 4-2 | 37 |
| 200 | Measurement of associated W + charm production in pp collisions at $(\sqrt{s}) = 7$ TeV. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1   | 5-4 | 37 |
| 199 | Jet production rates in association with W and Z bosons in pp collisions at $(\sqrt{s} = 7 \text{ TeV})$ . <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1   | 5-4 | 37 |
| 198 | Measurement of masses in the $[Formula: see text]$ system by kinematic endpoints in pp collisions at $[Formula: see text]$ . <i>European Physical Journal C</i> , <b>2013</b> , 73, 2494   | 4-2 | 37 |
| 197 | Search for narrow resonances and quantum black holes in inclusive and b-tagged dijet mass spectra from pp collisions at $(\sqrt{s}=7)$ TeV. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1  | 5-4 | 37 |
| 196 | Measurement of pseudorapidity distributions of charged particles in proton-proton collisions at $(\sqrt{s} = 8)$ TeV by the CMS and TOTEM experiments. <i>European Physical Journal C</i> , <b>2014</b> , 74, 1  | 4-2 | 37 |
| 195 | Measurement of prompt and nonprompt charmonium suppression in collisions at 5.02. <i>European Physical Journal C</i> , <b>2018</b> , 78, 509   | 4-2 | 37 |



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|-----|---|-----|----|
| 194 | Measurement of the top-quark mass in ( $\overline{\text{t}}$ ) events with dilepton final states in pp collisions at ( $\sqrt{s}=7$ TeV). <i>European Physical Journal C</i> , <b>2012</b> , 72, 1  | 4.2 | 36 |
| 193 | Measurement of the double-differential inclusive jet cross section in proton-proton collisions at [Formula: see text]. <i>European Physical Journal C</i> , <b>2016</b> , 76, 451   | 4.2 | 36 |
| 192 | Search for disappearing tracks in proton-proton collisions at ( $\sqrt{s}=8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1   | 5.4 | 35 |
| 191 | Measurement of differential cross sections for Higgs boson production in the diphoton decay channel in pp collisions at [Formula: see text]. <i>European Physical Journal C</i> , <b>2016</b> , 76, 13  | 4.2 | 35 |
| 190 | Search for the standard model Higgs boson produced in association with a top-quark pair in pp collisions at the LHC. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1  | 5.4 | 35 |
| 189 | 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. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1 | 5.4 | 35 |
| 188 | Measurement of the ( $\overline{\text{t}}$ ) production cross section in pp collisions at ( $\sqrt{s}=7$ ) TeV using the kinematic properties of events with leptons and jets. <i>European Physical Journal C</i> , <b>2011</b> , 71, 1               | 4.2 | 35 |
| 187 | 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. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1                   | 5.4 | 34 |
| 186 | Search for new physics in same-sign dilepton events in proton-proton collisions at [Formula: see text]. <i>European Physical Journal C</i> , <b>2016</b> , 76, 439  | 4.2 | 34 |
| 185 | Search for microscopic black holes in pp collisions at ( $\sqrt{s} = \text{7 TeV}$ ). <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1   | 5.4 | 34 |
| 184 | Search for decays of stopped long-lived particles produced in proton-proton collisions at [Formula: see text]. <i>European Physical Journal C</i> , <b>2015</b> , 75, 151   | 4.2 | 33 |
| 183 | Search for new physics in events with same-sign dileptons and b jets in pp collisions at ( $\sqrt{s}=8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1  | 5.4 | 33 |
| 182 | Searches for third-generation squark production in fully hadronic final states in proton-proton collisions at ( $\sqrt{s}=8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1   | 5.4 | 33 |
| 181 | Search for a light charged Higgs boson decaying to ( $\overline{\text{c}}$ ) in pp collisions at ( $\sqrt{s}=8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1-37   | 5.4 | 33 |
| 180 | Identification techniques for highly boosted W bosons that decay into hadrons. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1  | 5.4 | 32 |
| 179 | Search for supersymmetry in pp collisions at ( $\sqrt{s} = 7$ ) TeV in events with a single lepton, jets, and missing transverse momentum. <i>Journal of High Energy Physics</i> , <b>2011</b> , 2011, 1  | 5.4 | 32 |
| 178 | Measurement of the Drell-Yan cross section in pp collisions at ( $\sqrt{s} = 7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2011</b> , 2011, 1  | 5.4 | 32 |
| 177 | Measurement of the ( $\overline{\text{t}}$ ) production cross section in the $e\bar{e}$ channel in proton-proton collisions at ( $\sqrt{s}=7$ ) and 8 TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1                              | 5.4 | 30 |

|     |   |     |    |
|-----|---|-----|----|
| 176 | Search in leptonic channels for heavy resonances decaying to long-lived neutral particles. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1  | 5-4 | 30 |
| 175 | Inclusive b-jet production in pp collisions at ( $\sqrt{s} = 7\text{TeV}$ ). <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1  | 5-4 | 30 |
| 174 | Observation of Z decays to four leptons with the CMS detector at the LHC. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1   | 5-4 | 30 |
| 173 | Measurement of the top-quark mass in ( $\overline{\text{t}}\text{t}$ ) events with lepton+jets final states in pp collisions at ( $\sqrt{s}=7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1   | 5-4 | 30 |
| 172 | Measurement of the underlying event in the Drell-Yan process in proton-proton collisions at ( $\sqrt{s} = 7\text{TeV}$ ). <i>European Physical Journal C</i> , <b>2012</b> , 72, 1  | 4-2 | 30 |
| 171 | Search for supersymmetry in final states with missing transverse energy and 0, 1, 2, or 3 b-quark jets in 7 TeV pp collisions using the variable $\cancel{E}_T$ . <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1   | 5-4 | 29 |
| 170 | Observation of $Y(1S)$ pair production in proton-proton collisions at ( $\sqrt{s}=8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1   | 5-4 | 29 |
| 169 | Measurement of top quark-antiquark pair production in association with a W or Z boson in pp collisions at [Formula: see text][Formula: see text]. <i>European Physical Journal C</i> , <b>2014</b> , 74, 3060   | 4-2 | 29 |
| 168 | Search for heavy Majorana neutrinos in $e^+e^- + \text{jets}$ and $e^+e^- + \text{jets}$ events in proton-proton collisions at ( $\sqrt{s}=8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1  | 5-4 | 28 |
| 167 | Search for supersymmetry in events with b jets and missing transverse momentum at the LHC. <i>Journal of High Energy Physics</i> , <b>2011</b> , 2011, 1  | 5-4 | 28 |
| 166 | Evidence for exclusive $\cancel{E}_T + W + \cancel{E}_T$ production and constraints on anomalous quartic gauge couplings in pp collisions at ( $\sqrt{s}=7$ ) and 8 TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1  | 5-4 | 27 |
| 165 | Measurement of prompt and nonprompt [Formula: see text] production in [Formula: see text] and [Formula: see text] collisions at [Formula: see text]. <i>European Physical Journal C</i> , <b>2017</b> , 77, 269   | 4-2 | 26 |
| 164 | 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. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1   | 5-4 | 26 |
| 163 | Search for anomalous $Wtb$ couplings and flavour-changing neutral currents in t-channel single top quark production in pp collisions at ( $\sqrt{s}=7$ ) and 8 TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1   | 5-4 | 26 |
| 162 | Searches for supersymmetry using the $M_{T2}$ variable in hadronic events produced in pp collisions at 8 TeV. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1   | 5-4 | 26 |
| 161 | Measurement of the W-boson helicity in top-quark decays from ( $\overline{\text{t}}\text{t}$ ) production in lepton+jets events in pp collisions at ( $\sqrt{s}=7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1   | 5-4 | 25 |
| 160 | Search for top squark pair production in pp collisions at ( $\sqrt{s}=13$ ) TeV using single lepton events. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1   | 5-4 | 25 |
| 159 | Measurements of the [Formula: see text][Formula: see text] production cross sections in the [Formula: see text] channel in proton-proton collisions at [Formula: see text] and [Formula: see text] and combined constraints on triple gauge couplings. <i>European Physical Journal C</i> , <b>2015</b> , 75, 511 | 4-2 | 25 |



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| 158 | Search for resonant ( $\overline{\text{t}}\text{t}$ ) production in lepton+jets events in pp collisions at ( $\sqrt{s}=7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1  | 5.4 | 25 |
| 157 | Search for heavy resonances decaying to two Higgs bosons in final states containing four b quarks. <i>European Physical Journal C</i> , <b>2016</b> , 76, 371   | 4.2 | 25 |
| 156 | Constraints on the pMSSM, AMSB model and on other models from the search for long-lived charged particles in proton-proton collisions at [Formula: see text]. <i>European Physical Journal C</i> , <b>2015</b> , 75, 325                    | 4.2 | 24 |
| 155 | Measurement of inclusive jet production and nuclear modifications in pPb collisions at [Formula: see text]. <i>European Physical Journal C</i> , <b>2016</b> , 76, 372  | 4.2 | 24 |
| 154 | Jet and underlying event properties as a function of charged-particle multiplicity in proton-proton collisions at [Formula: see text]. <i>European Physical Journal C</i> , <b>2013</b> , 73, 2674  | 4.2 | 24 |
| 153 | Measurement of the $Z/\bar{\nu} + \text{b-jet}$ cross section in pp collisions at ( $\sqrt{s} = 7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1   | 5.4 | 24 |
| 152 | Search for new physics in events with same-sign dileptons and b-tagged jets in pp collisions at ( $\sqrt{s} = 7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1   | 5.4 | 24 |
| 151 | Search for the standard model Higgs boson in the $H \rightarrow ZZ \rightarrow 2\mu 2\tau$ channel in pp collisions at ( $\sqrt{s} = 7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1                                | 5.4 | 24 |
| 150 | Search for $W \rightarrow \tau b$ decays in the lepton + jets final state in pp collisions at ( $\sqrt{s} = 8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1   | 5.4 | 23 |
| 149 | Search for third-generation scalar leptoquarks decaying to a top quark and a lepton at. <i>European Physical Journal C</i> , <b>2018</b> , 78, 707  | 4.2 | 23 |
| 148 | Measurement of the [Formula: see text] production cross section using events in the [Formula: see text] final state in pp collisions at [Formula: see text]. <i>European Physical Journal C</i> , <b>2017</b> , 77, 172                     | 4.2 | 22 |
| 147 | Search for physics beyond the standard model in events with two leptons, jets, and missing transverse momentum in pp collisions at ( $\sqrt{s} = 8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1                    | 5.4 | 22 |
| 146 | Measurement of the WZ production cross section in pp collisions at [Formula: see text] and $8\sqrt{s}$ and search for anomalous triple gauge couplings at [Formula: see text]. <i>European Physical Journal C</i> , <b>2017</b> , 77, 236   | 4.2 | 21 |
| 145 | A search for new phenomena in pp collisions at [Formula: see text] in final states with missing transverse momentum and at least one jet using the [Formula: see text] variable. <i>European Physical Journal C</i> , <b>2017</b> , 77, 294 | 4.2 | 21 |
| 144 | Measurement of electroweak production of two jets in association with a Z boson in proton-proton collisions at [Formula: see text]. <i>European Physical Journal C</i> , <b>2015</b> , 75, 66   | 4.2 | 21 |
| 143 | Correlations between jets and charged particles in PbPb and pp collisions at ( $\sqrt{s_{\text{NN}}}=2.76$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1   | 5.4 | 21 |
| 142 | Measurement of the [Formula: see text] production cross section in the all-jets final state in pp collisions at [Formula: see text][Formula: see text]. <i>European Physical Journal C</i> , <b>2016</b> , 76, 128                          | 4.2 | 21 |
| 141 | Measurement of the production cross sections for a Z boson and one or more b jets in pp collisions at ( $\sqrt{s} = 7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1   | 5.4 | 21 |

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| 140 | Measurement of the top-quark mass in all-jets [Formula: see text] events in pp collisions at [Formula: see text] TeV. <i>European Physical Journal C</i> , <b>2014</b> , 74, 2758   | 4.2 | 21 |
| 139 | Measurement of the $(\overline{\text{t}}\text{t})$ production cross section in the $\text{t}\bar{\text{t}}\text{jets}$ channel in pp collisions at $(\sqrt{s}=7 \text{ TeV})$ . <i>European Physical Journal C</i> , <b>2013</b> , 73, 1                    | 4.2 | 21 |
| 138 | Search for physics beyond the standard model in events with two leptons of same sign, missing transverse momentum, and jets in proton-proton collisions at. <i>European Physical Journal C</i> , <b>2017</b> , 77, 578                                      | 4.2 | 21 |
| 137 | Search for light bosons in decays of the 125 GeV Higgs boson in proton-proton collisions at $(\sqrt{s}=8 \text{ TeV})$ . <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1  | 5.4 | 21 |
| 136 | Search for a Higgs boson in the decay channel $H \rightarrow \text{ZZ}^* \rightarrow \text{q}(\overline{\text{q}}) \text{ll}$ in pp collisions at $(\sqrt{s}=7 \text{ TeV})$ . <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1                | 5.4 | 21 |
| 135 | Measurement of transverse momentum relative to dijet systems in PbPb and pp collisions at $(\sqrt{s_{\text{NN}}}=2.76 \text{ TeV})$ . <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1   | 5.4 | 21 |
| 134 | Measurement of [Formula: see text] production with additional jet activity, including [Formula: see text] quark jets, in the dilepton decay channel using pp collisions at [Formula: see text]. <i>European Physical Journal C</i> , <b>2016</b> , 76, 379  | 4.2 | 20 |
| 133 | Search for standard model production of four top quarks with same-sign and multilepton final states in proton-proton collisions at. <i>European Physical Journal C</i> , <b>2018</b> , 78, 140  | 4.2 | 20 |
| 132 | Measurement of the production cross section for pairs of isolated photons in pp collisions at $(\sqrt{s}=7 \text{ TeV})$ . <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1  | 5.4 | 20 |
| 131 | Search for pair production of vector-like T and B quarks in single-lepton final states using boosted jet substructure in proton-proton collisions at $(\sqrt{s}=13 \text{ TeV})$ . <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1            | 5.4 | 20 |
| 130 | Search for anomalous single top quark production in association with a photon in pp collisions at $(\sqrt{s}=8 \text{ TeV})$ . <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1  | 5.4 | 20 |
| 129 | Measurements of the [Formula: see text] production cross section in lepton+jets final states in pp collisions at 8 [Formula: see text] and ratio of 8 to 7 [Formula: see text] cross sections. <i>European Physical Journal C</i> , <b>2017</b> , 77, 15    | 4.2 | 19 |
| 128 | Measurement of the W boson helicity in events with a single reconstructed top quark in pp collisions at $(\sqrt{s}=8 \text{ TeV})$ . <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1  | 5.4 | 19 |
| 127 | Search for resonant and nonresonant Higgs boson pair production in the $(\overline{\text{b}}\text{b})\text{ell ell}$ final state in proton-proton collisions at $(\sqrt{s}=13 \text{ TeV})$ . <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1 | 5.4 | 19 |
| 126 | Search for massive WH resonances decaying into the [Formula: see text] final state at [Formula: see text]. <i>European Physical Journal C</i> , <b>2016</b> , 76, 237   | 4.2 | 19 |
| 125 | Search for heavy resonances decaying to tau lepton pairs in proton-proton collisions at $(\sqrt{s}=13 \text{ TeV})$ . <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1   | 5.4 | 19 |
| 124 | Search for massive resonances decaying into WW, WZ or ZZ bosons in proton-proton collisions at $(\sqrt{s}=13 \text{ TeV})$ . <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1  | 5.4 | 19 |
| 123 | Search for third-generation scalar leptoquarks in the $\text{t}\bar{\text{t}}$ channel in proton-proton collisions at $(\sqrt{s}=8 \text{ TeV})$ . <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1  | 5.4 | 19 |

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| 122 | Measurement of energy flow at large pseudorapidities in pp collisions at ( $\sqrt{s} = 0.9$ ) and 7 TeV. <i>Journal of High Energy Physics</i> , <b>2011</b> , 2011, 1  | 5.4 | 19 |
| 121 | Search for new physics in dijet angular distributions using proton-proton collisions at and constraints on dark matter and other models. <i>European Physical Journal C</i> , <b>2018</b> , 78, 789   | 4.2 | 19 |
| 120 | Study of Z production in PbPb and pp collisions at ( $\sqrt{s_{\text{NN}}}=2.76$ ) TeV in the dimuon and dielectron decay channels. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1   | 5.4 | 18 |
| 119 | Observation of top quark pairs produced in association with a vector boson in pp collisions at ( $\sqrt{s}=8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1  | 5.4 | 18 |
| 118 | . <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1   | 5.4 | 18 |
| 117 | Search for direct production of supersymmetric partners of the top quark in the all-jets final state in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1                                  | 5.4 | 18 |
| 116 | Search for heavy neutrinos or third-generation leptoquarks in final states with two hadronically decaying $\ell$ leptons and two jets in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1 | 5.4 | 18 |
| 115 | Search for neutral MSSM Higgs bosons decaying into a pair of bottom quarks. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1   | 5.4 | 18 |
| 114 | Measurement of the inclusive jet cross section in pp collisions at ( $\sqrt{s} = 2.76, \text{text {TeV}}$ ). <i>European Physical Journal C</i> , <b>2016</b> , 76, 1   | 4.2 | 17 |
| 113 | Search for ( $\overline{\text{t}}$ ) resonances in highly boosted lepton+jets and fully hadronic final states in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1                         | 5.4 | 17 |
| 112 | Searches for pair production of third-generation squarks in [Formula: see text][Formula: see text] pp collisions. <i>European Physical Journal C</i> , <b>2017</b> , 77, 327  | 4.2 | 17 |
| 111 | Search for the production of dark matter in association with top-quark pairs in the single-lepton final state in proton-proton collisions at ( $\sqrt{s}=8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1                          | 5.4 | 17 |
| 110 | Search for stopped long-lived particles produced in pp collisions at ( $\sqrt{s} = \text{text{7TeV}}$ ). <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1  | 5.4 | 17 |
| 109 | Ratios of dijet production cross sections as a function of the absolute difference in rapidity between jets in proton-proton collisions at ( $\sqrt{s} = 7 \text{ mathrm{TeV}}$ ). <i>European Physical Journal C</i> , <b>2012</b> , 72, 1               | 4.2 | 17 |
| 108 | Search for new physics with the M T2 variable in all-jets final states produced in pp collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1  | 5.4 | 16 |
| 107 | Search for a very light NMSSM Higgs boson produced in decays of the 125 GeV scalar boson and decaying into $\ell$ leptons in pp collisions at ( $\sqrt{s}=8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1                         | 5.4 | 16 |
| 106 | Measurement of WZ and ZZ production in pp collisions at [Formula: see text] in final states with b-tagged jets. <i>European Physical Journal C</i> , <b>2014</b> , 74, 2973   | 4.2 | 16 |
| 105 | Search for exotic resonances decaying into WZ/ZZ in pp collisions at ( $\sqrt{s}=7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1  | 5.4 | 16 |

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| 104 | Search for vector-like T quarks decaying to top quarks and Higgs bosons in the all-hadronic channel using jet substructure. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1   | 5-4 | 16 |
| 103 | Search for dark matter and unparticles in events with a Z boson and missing transverse momentum in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1   | 5-4 | 16 |
| 102 | Measurements of the associated production of a Z boson and b jets in pp collisions at. <i>European Physical Journal C</i> , <b>2017</b> , 77, 751   | 4-2 | 15 |
| 101 | Measurement of differential and integrated fiducial cross sections for Higgs boson production in the four-lepton decay channel in pp collisions at ( $\sqrt{s}=7$ ) and 8 TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1  | 5-4 | 15 |
| 100 | Measurement of the triple-differential cross section for photon + jets production in proton-proton collisions at ( $\sqrt{s}$ ) = 7 TeV. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1  | 5-4 | 15 |
| 99  | Search for new physics in events with photons, jets, and missing transverse energy in pp collisions at ( $\sqrt{s}=7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1  | 5-4 | 15 |
| 98  | Search for supersymmetry in pp collisions at [Formula: see text] TeV in events with a single lepton, jets, and missing transverse momentum. <i>European Physical Journal C</i> , <b>2013</b> , 73, 2404   | 4-2 | 15 |
| 97  | Measurement of the transverse momentum spectra of weak vector bosons produced in proton-proton collisions at ( $\sqrt{s}=8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1  | 5-4 | 15 |
| 96  | Search for standard model production of four top quarks in the lepton + jets channel in pp collisions at ( $\sqrt{s}=8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1  | 5-4 | 15 |
| 95  | Search for direct pair production of supersymmetric top quarks decaying to all-hadronic final states in pp collisions at [Formula: see text]. <i>European Physical Journal C</i> , <b>2016</b> , 76, 460  | 4-2 | 14 |
| 94  | Search for a massive resonance decaying into a Higgs boson and a W or Z boson in hadronic final states in proton-proton collisions at ( $\sqrt{s}=8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1   | 5-4 | 14 |
| 93  | Measurement of the ( $\Lambda_{\text{b}}^0$ ) lifetime in pp collisions at ( $\sqrt{s}=7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1  | 5-4 | 14 |
| 92  | Measurement of the ( $\overline{\text{t}}\text{t}$ ) production cross section in the all-jet final state in pp collisions at ( $\sqrt{s}=7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1  | 5-4 | 14 |
| 91  | Measurement of the ( $\overline{\text{t}}\text{t}$ ) production cross section using events with one lepton and at least one jet in pp collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1  | 5-4 | 14 |
| 90  | Search for Higgs boson off-shell production in proton-proton collisions at 7 and 8 TeV and derivation of constraints on its total decay width. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1  | 5-4 | 14 |
| 89  | Measurement of the ratio of the production cross sections times branching fractions of $B \rightarrow J/\psi \mu \mu$ and $B \rightarrow J/\psi \mu \mu$ and $(\text{mathcal{B}}\left(\text{mathcal{B}}_{\text{c}}^{\text{pm}}\right) \rightarrow \text{mathcal{J}}/\psi \left\{\text{pi}\right\}^{\text{pm}} \left\{\text{pi}\right\}^{\text{pm}} \left\{\text{pi}\right\}^{\text{mp}}\right) / \text{mathcal{B}}\left(\text{mathcal{B}}_{\text{c}}^{\text{pm}}\right) \rightarrow \text{mathcal{J}}/\psi \left(\text{pi}\right)^{\text{pm}}\right)$ in pp collisions at ( $\sqrt{s}=7$ ) TeV. <i>Journal of High Energy Physics</i> , | 5-4 | 13 |
| 88  | Forward-backward asymmetry of Drell-Yan lepton pairs in pp collisions at [Formula: see text][Formula: see text]. <i>European Physical Journal C</i> , <b>2016</b> , 76, 325   | 4-2 | 13 |
| 87  | Probing color coherence effects in pp collisions at [Formula: see text]. <i>European Physical Journal C</i> , <b>2014</b> , 74, 2901  | 4-2 | 13 |

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| 86 | Search for a fermiophobic Higgs boson in pp collisions at ( $\sqrt{s} = 7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1  | 5.4 | 13 |
| 85 | Measurement of the inclusive production cross sections for forward jets and for dijet events with one forward and one central jet in pp collisions at ( $\sqrt{s} = 7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1                        | 5.4 | 13 |
| 84 | Measurement of the mass difference between top and antitop quarks. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1   | 5.4 | 13 |
| 83 | Decomposing transverse momentum balance contributions for quenched jets in PbPb collisions at ( $\sqrt{s_{\mathrm{N};\mathrm{N}}}=2.76$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1   | 5.4 | 13 |
| 82 | Measurement of the top quark mass with lepton+jets final states using collisions at. <i>European Physical Journal C</i> , <b>2018</b> , 78, 891  | 4.2 | 13 |
| 81 | Search for dark matter produced in association with a Higgs boson decaying to a pair of bottom quarks in proton-proton collisions at. <i>European Physical Journal C</i> , <b>2019</b> , 79, 280   | 4.2 | 12 |
| 80 | Measurement of normalized differential ( $\overline{\mathrm{t}}$ ) cross sections in the dilepton channel from pp collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1   | 5.4 | 12 |
| 79 | Measurement of the production cross section for ( $\mathrm{Z}\gamma$ to $\nu \overline{\nu}\gamma$ ) in pp collisions at ( $\sqrt{s} = 7$ ) TeV and limits on ZZ and Z triple gauge boson couplings. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1 | 5.4 | 12 |
| 78 | Search for heavy quarks decaying into a top quark and a W or Z boson using lepton + jets events in pp collisions at ( $\sqrt{s}=7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1  | 5.4 | 12 |
| 77 | Search for top quark decays via Higgs-boson-mediated flavor-changing neutral currents in pp collisions at ( $\sqrt{s}=8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1  | 5.4 | 12 |
| 76 | Search for quark compositeness in dijet angular distributions from pp collisions at ( $\sqrt{s} = 7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1  | 5.4 | 12 |
| 75 | Search for third-generation leptoquarks and scalar bottom quarks in pp collisions at ( $\sqrt{s}=7$ ;TeV). <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1   | 5.4 | 12 |
| 74 | Search for light resonances decaying into pairs of muons as a signal of new physics. <i>Journal of High Energy Physics</i> , <b>2011</b> , 2011, 1   | 5.4 | 12 |
| 73 | Studies of and mesons including the observation of the decay in proton-proton collisions at. <i>European Physical Journal C</i> , <b>2018</b> , 78, 939  | 4.2 | 12 |
| 72 | Electroweak production of two jets in association with a Z boson in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV. <i>European Physical Journal C</i> , <b>2018</b> , 78, 1  | 4.2 | 12 |
| 71 | Search for new physics in the monophoton final state in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1   | 5.4 | 11 |
| 70 | Measurement of associated Z + charm production in proton-proton collisions at. <i>European Physical Journal C</i> , <b>2018</b> , 78, 287  | 4.2 | 11 |
| 69 | Phenomenological MSSM interpretation of CMS searches in pp collisions at ( $\sqrt{s}=7$ ) and 8 TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1   | 5.4 | 11 |



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| 68 | Measurement of jet multiplicity distributions in [Formula: see text] production in pp collisions at [Formula: see text]. <i>European Physical Journal C</i> , <b>2014</b> , 74, 3014   | 4.2 | 11 |
| 67 | Measurements of differential production cross sections for a Z boson in association with jets in pp collisions at ( $\sqrt{s}=8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1  | 5.4 | 11 |
| 66 | Search for electroweak production of charginos and neutralinos in WH events in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1  | 5.4 | 11 |
| 65 | Search for new physics with dijet angular distributions in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1  | 5.4 | 11 |
| 64 | Search for supersymmetry in the vector-boson fusion topology in proton-proton collisions at ( $\sqrt{s}=8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1  | 5.4 | 11 |
| 63 | Measurement of the underlying event activity in pp collisions at ( $\sqrt{s} = 0.9$ ) and 7 TeV with the novel jet-area/median approach. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1   | 5.4 | 11 |
| 62 | Forward energy flow, central charged-particle multiplicities, and pseudorapidity gaps in W and Z boson events from pp collisions at ( $\sqrt{s}=7$ ) TeV. <i>European Physical Journal C</i> , <b>2012</b> , 72, 1   | 4.2 | 11 |
| 61 | Search for the standard model Higgs boson in the $H \rightarrow ZZ \rightarrow 4\ell$ decay channel in pp collisions at ( $\sqrt{s} = 7$ );{text{TeV}}). <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1   | 5.4 | 11 |
| 60 | Measurement of the transverse momentum spectrum of the Higgs boson produced in pp collisions at ( $\sqrt{s}=8$ ) TeV using $H \rightarrow WW$ decays. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1  | 5.4 | 10 |
| 59 | Search for excited leptons in proton-proton collisions at ( $\sqrt{s}=8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1  | 5.4 | 10 |
| 58 | Measurement of the hadronic activity in events with a Z and two jets and extraction of the cross section for the electroweak production of a Z with two jets in pp collisions at ( $\sqrt{s}=7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1 | 5.4 | 10 |
| 57 | Search for physics beyond the standard model in events with leptons, jets, and large transverse momentum imbalance in pp collisions at [Formula: see text]. <i>European Physical Journal C</i> , <b>2013</b> , 73, 2493 <sup>4.2</sup>                               | 4.2 | 10 |
| 56 | Measurements of jet charge with dijet events in pp collisions at ( $\sqrt{s}=8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1   | 5.4 | 10 |
| 55 | Search for associated production of a Z boson with a single top quark and for tZ flavour-changing interactions in pp collisions at ( $\sqrt{s}=8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1   | 5.4 | 10 |
| 54 | Search for supersymmetry in events with at least one photon, missing transverse momentum, and large transverse event activity in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1                    | 5.4 | 10 |
| 53 | Search for new physics with long-lived particles decaying to photons and missing energy in pp collisions at ( $\sqrt{s}=7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1  | 5.4 | 10 |
| 52 | Search for supersymmetry in events with a lepton, a photon, and large missing transverse energy in pp collisions at ( $\sqrt{s} = 7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2011</b> , 2011, 1  | 5.4 | 10 |
| 51 | Search for the associated production of a Higgs boson with a single top quark in proton-proton collisions at ( $\sqrt{s}=8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1   | 5.4 | 10 |



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| 50 | Search for dark matter in proton-proton collisions at 8 TeV with missing transverse momentum and vector boson tagged jets. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1  | 5.4 | 9 |
| 49 | Azimuthal decorrelation of jets widely separated in rapidity in pp collisions at ( $\sqrt{s}=7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1  | 5.4 | 9 |
| 48 | Search for associated production of dark matter with a Higgs boson decaying to ( $\overline{\text{b}}\text{b}$ ) or $\tau\tau$ ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1                                     | 5.4 | 9 |
| 47 | Search for electroweak production of a vector-like quark decaying to a top quark and a Higgs boson using boosted topologies in fully hadronic final states. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1                               | 5.4 | 9 |
| 46 | Measurement of electroweak-induced production of $W\gamma$ with two jets in pp collisions at ( $\sqrt{s}=8$ ) TeV and constraints on anomalous quartic gauge couplings. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1                   | 5.4 | 9 |
| 45 | Search for lepton flavour violating decays of heavy resonances and quantum black holes to an $[\text{Formula: see text}]$ pair in proton-proton collisions at $[\text{Formula: see text}]$ . <i>European Physical Journal C</i> , <b>2016</b> , 76, 317 | 4.2 | 9 |
| 44 | Measurement of charged particle spectra in minimum-bias events from proton-proton collisions at. <i>European Physical Journal C</i> , <b>2018</b> , 78, 697   | 4.2 | 9 |
| 43 | Search for s channel single top quark production in pp collisions at ( $\sqrt{s}=7$ ) and 8 TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1  | 5.4 | 8 |
| 42 | Search for single production of vector-like quarks decaying to a Z boson and a top or a bottom quark in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1                                | 5.4 | 8 |
| 41 | Measurement of the top quark mass using single top quark events in proton-proton collisions at $[\text{Formula: see text}]$ TeV. <i>European Physical Journal C</i> , <b>2017</b> , 77, 354   | 4.2 | 8 |
| 40 | Measurement of the triple-differential dijet cross section in proton-proton collisions at and constraints on parton distribution functions. <i>European Physical Journal C</i> , <b>2017</b> , 77, 746  | 4.2 | 8 |
| 39 | Search for electroweak production of charginos in final states with two $\tau$ leptons in pp collisions at ( $\sqrt{s}=8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1  | 5.4 | 7 |
| 38 | Measurement of the production cross section of a $W\gamma$ boson in association with two b jets in pp collisions at $[\text{Formula: see text}]$ . <i>European Physical Journal C</i> , <b>2017</b> , 77, 92  | 4.2 | 7 |
| 37 | Search for supersymmetry in pp collisions at ( $\sqrt{s}=13$ ) TeV in the single-lepton final state using the sum of masses of large-radius jets. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1   | 5.4 | 7 |
| 36 | Measurement of top quark polarisation in t-channel single top quark production. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1   | 5.4 | 7 |
| 35 | Measurement of the semileptonic ( $\overline{\text{t}}\text{t}$ ) + $\tau$ production cross section in pp collisions at ( $\sqrt{s}=8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1   | 5.4 | 7 |
| 34 | Searches for $W\gamma$ bosons decaying to a top quark and a bottom quark in proton-proton collisions at 13 TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1   | 5.4 | 7 |
| 33 | Search for a light pseudoscalar Higgs boson produced in association with bottom quarks in pp collisions at ( $\sqrt{s}=8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1  | 5.4 | 7 |

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| 32 | Measurement of the $Z/\bar{\nu}$ production cross section in pp collisions at 8 TeV and search for anomalous triple gauge boson couplings. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1                           | 5-4 | 7 |
| 31 | Search for new physics in final states with two opposite-sign, same-flavor leptons, jets, and missing transverse momentum in pp collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1 | 5-4 | 7 |
| 30 | A study of the radiation tolerance of poly-crystalline and single-crystalline CVD diamond to 800 MeV and 24 GeV protons. <i>Journal Physics D: Applied Physics</i> , <b>2019</b> , 52, 465103                                      | 3   | 6 |
| 29 | Search for single production of vector-like quarks decaying to a top quark and a boson in proton-proton collisions at. <i>European Physical Journal C</i> , <b>2019</b> , 79, 90   | 4-2 | 6 |
| 28 | Measurement of the underlying event activity using charged-particle jets in proton-proton collisions at ( $\sqrt{s}=2.76$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1                                     | 5-4 | 6 |
| 27 | Search for the standard model Higgs boson produced in association with W and Z bosons in pp collisions at ( $\sqrt{s}=7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1                                      | 5-4 | 6 |
| 26 | Search for the associated production of the Higgs boson with a top-quark pair <b>2014</b> , 2014, 1  |     | 6 |
| 25 | Search for direct pair production of scalar top quarks in the single- and dilepton channels in proton-proton collisions at ( $\sqrt{s}=8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1                     | 5-4 | 6 |
| 24 | Measurement of the mass of the top quark in decays with a $J/\psi$ meson in pp collisions at 8 TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1  | 5-4 | 5 |
| 23 | Measurement of the inclusive energy spectrum in the very forward direction in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1                                     | 5-4 | 5 |
| 22 | Comparison of the $Z/\bar{\nu} + \text{jets}$ to $\bar{\nu} + \text{jets}$ cross sections in pp collisions at ( $\sqrt{s}=8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1                                  | 5-4 | 5 |
| 21 | Measurement of energy flow at large pseudorapidities in pp collisions at ( $\sqrt{s} = 0.9$ ) and 7 TeV <b>2011</b> , 2011, 1  |     | 5 |
| 20 | Distributions of topological observables in inclusive three- and four-jet events in pp collisions at [Formula: see text][Formula: see text]. <i>European Physical Journal C</i> , <b>2015</b> , 75, 302                            | 4-2 | 4 |
| 19 | Search for a heavy resonance decaying to a top quark and a vector-like top quark at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1   | 5-4 | 4 |
| 18 | Search for high-mass $Z/\bar{\nu}$ resonances in $e+e$ and $\bar{\nu} + \bar{\nu}$ final states in proton-proton collisions at ( $\sqrt{s}=8$ ) and 13 TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1          | 5-4 | 4 |
| 17 | Search for CP violation in ( $\bar{t}$ ) production and decay in proton-proton collisions at ( $\sqrt{s}=8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1   | 5-4 | 4 |
| 16 | Measurement of electroweak production of a W boson and two forward jets in proton-proton collisions at ( $\sqrt{s}=8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1   | 5-4 | 4 |
| 15 | Search for pair production of excited top quarks in the lepton + jets final state. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1   | 5-4 | 3 |

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| 14 | Search for top quark partners with charge $5/3$ in proton-proton collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1   | 5-4 | 3 |
| 13 | Study of hadronic event-shape variables in multijet final states in pp collisions at ( $\sqrt{s} = 7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1  | 5-4 | 3 |
| 12 | Measurement of the cross section for production of ( $\overline{b} X$ ) decaying to muons in pp collisions at ( $\sqrt{s} = 7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1                               | 5-4 | 3 |
| 11 | Measurement of the ( $\overline{t}$ ) production cross section in the dilepton channel in pp collisions at ( $\sqrt{s} = 8$ ) TeV <b>2014</b> , 2014, 1   |     | 3 |
| 10 | A Study of the Radiation Tolerance of CVD Diamond to 70 MeV Protons, Fast Neutrons and 200 MeV Pions. <i>Sensors</i> , <b>2020</b> , 20,  | 3-8 | 3 |
| 9  | Search for dark matter particles in proton-proton collisions at ( $\sqrt{s}=8$ ) TeV using the razor variables. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1   | 5-4 | 2 |
| 8  | Search for $W^? \rightarrow b$ in proton-proton collisions at ( $\sqrt{s}=8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1   | 5-4 | 2 |
| 7  | Search for the production of an excited bottom quark decaying to $tW$ in proton-proton collisions at ( $\sqrt{s}=8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1  | 5-4 | 2 |
| 6  | Measurements of the $pp \rightarrow W\bar{b}$ and $pp \rightarrow Z\bar{t}$ cross sections and limits on anomalous quartic gauge couplings at ( $\sqrt{s}=8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1 | 5-4 | 2 |
| 5  | Search for new phenomena with multiple charged leptons in proton-proton collisions at ( $\sqrt{s}=13$ ) ( $\sqrt{s}$ {TeV}). <i>European Physical Journal C</i> , <b>2017</b> , 77, 1   | 4-2 | 2 |
| 4  | Search for new physics in events with same-sign dileptons and b jets in pp collisions at ( $\sqrt{s}=8$ ) TeV <b>2013</b> , 2013, 1   |     | 2 |
| 3  | Measurement of single-diffractive dijet production in proton-proton collisions at with the CMS and TOTEM experiments. <i>European Physical Journal C</i> , <b>2020</b> , 80, 1164   | 4-2 | 0 |
| 2  | Search for natural supersymmetry in events with top quark pairs and photons in pp collisions at ( $\sqrt{s}=8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1   | 5-4 |   |
| 1  | Search for neutral color-octet weak-triplet scalar particles in proton-proton collisions at ( $\sqrt{s}=8$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1   | 5-4 |   |