

# Thomas Ferbel

## List of Publications by Year in descending order

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Version: 2024-02-01

256  
papers

12,188  
citations

31976

53  
h-index

34986

98  
g-index

261  
all docs

261  
docs citations

261  
times ranked

8776  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Observation of the Top Quark. Physical Review Letters, 1995, 74, 2632-2637.   | 7.8 | 1,100     |
| 2  | The upgraded D $\tilde{A}$ detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 565, 463-537.   | 1.6 | 549       |
| 3  | 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       |
| 4  | Event generator tunes obtained from underlying event and multiparton scattering measurements. European Physical Journal C, 2016, 76, 155.   | 3.9 | 499       |
| 5  | Combined measurements of Higgs boson couplings in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2019, 79, 421.  | 3.9 | 355       |
| 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  | 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       |
| 9  | 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       |
| 10 | Forward-backward asymmetry in top quark-antiquark production. Physical Review D, 2011, 84, .  | 4.7 | 188       |

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| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | 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       |
| 20 | 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       |
| 21 | Search for new phenomena with the $M_{\text{T}2}$ variable in the all-hadronic final state produced in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2017, 77, 710.  | 3.9 | 98        |
| 22 | 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        |
| 23 | Performance of the CMS Level-1 trigger in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of Instrumentation, 2020, 15, P10017-P10017.  | 1.2 | 84        |
| 24 | Measurement of the differential cross section and charge asymmetry for inclusive $p \rightarrow W^{\pm} + X$ production at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 469.   | 3.9 | 83        |
| 25 | Measurement of prompt and nonprompt charmonium suppression in $\text{PbPb}$ collisions at $5.02 \text{ TeV}$ . European Physical Journal C, 2018, 78, 509.   | 3.9 | 83        |
| 26 | Suppression and azimuthal anisotropy of prompt and nonprompt $J/\psi$ production in $\text{PbPb}$ collisions at $\sqrt{s_{\text{NN}}} = 2.76$ TeV. European Physical Journal C, 2017, 77, 252.   | 3.9 | 82        |
| 27 | Search for narrow and broad dijet resonances in proton-proton collisions at $\sqrt{s} = 13$ TeV and constraints on dark matter mediators and other new particles. Journal of High Energy Physics, 2018, 2018, 1.                             | 4.7 | 82        |
| 28 | 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        |
| 29 | 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        |
| 30 | Search for production of four top quarks in final states with same-sign or multiple leptons in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2020, 80, 75.   | 3.9 | 78        |
| 31 | Measurement of Dijet Azimuthal Decorrelations at Central Rapidities in $\text{pp}$ Collisions at $\sqrt{s} = 1.96$ TeV. Physical Review Letters, 2005, 94, 221801.   | 7.8 | 76        |
| 32 | Search for additional neutral MSSM Higgs bosons in the $\tilde{\chi}_0^0, \tilde{\chi}_1^0$ , final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.                                 | 4.7 | 73        |
| 33 | 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        |
| 34 | Searches for physics beyond the standard model with the $M_{\text{T}2}$ variable in hadronic final states with and without disappearing tracks in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2020, 80, 3. | 3.9 | 70        |
| 35 | Combination of measurements of the top-quark pair production cross section from the Tevatron Collider. Physical Review D, 2014, 89, .  | 4.7 | 69        |
| 36 | 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        |

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|----|---|-----|-----------|
| 37 | Measurement of the $\overline{t}t$ production cross section, the top quark mass, and the strong coupling constant using dilepton events in pp collisions at. European Physical Journal C, 2019, 79, 368.  | 3.9 | 68        |
| 38 | Combination of CDF and DØ $W$ -Boson mass measurements. Physical Review D, 2013, 88, Measurement of the forward-backward asymmetry in top quark-antiquark production in   | 4.7 | 66        |
| 39 | pp collisions using the $\hat{A}$   | 4.7 | 64        |
| 40 | 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        |
| 41 | Search for dark matter produced with an energetic jet or a hadronically decaying W or Z boson at $s = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.   | 4.7 | 62        |
| 42 | Measurement of the inelastic proton-proton cross section at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.   | 4.7 | 62        |
| 43 | Dijet Mass Spectrum and a Search for Quark Compositeness in $p\bar{p}$ Collisions at $\sqrt{s}=1.8$ TeV. Physical Review Letters, 1999, 82, 2457-2462.  | 7.8 | 61        |
| 44 | 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 the TeV range. European Physical Journal C, 2013, 73, 1. | 3.9 | 60        |
| 45 | Studies of jet mass in dijet and W/Z + jet events. Journal of High Energy Physics, 2013, 2013, 1.   | 4.7 | 58        |
| 46 | Measurement of the weak mixing angle using the forward-backward asymmetry of Drell-Yan events in $pp$ collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2018, 78, 701.   | 3.9 | 58        |
| 47 | Rapidity gaps between jets in $p\bar{p}$ collisions at $\sqrt{s}=1.8$ TeV. Physical Review Letters, 1994, 72, 2332-2336.  | 7.8 | 57        |
| 48 | 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 $\sqrt{s} = 13$ TeV. European Physical Journal C, 2017, 77, 578.                                   | 3.9 | 57        |
| 49 | Combined search for electroweak production of charginos and neutralinos in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.  | 4.7 | 57        |
| 50 | Probing hard color-singlet exchange in collisions at $\sqrt{s} = 630$ GeV and 1800 GeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 440, 189-202.   | 4.1 | 56        |
| 51 | Measurement of associated W + charm production in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2014, 2014, 1.   | 4.7 | 55        |
| 52 | 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        |
| 53 | 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        |
| 54 | Search for supersymmetry in proton-proton collisions at 13 TeV in final states with jets and missing transverse momentum. Journal of High Energy Physics, 2019, 2019, 1.  | 4.7 | 54        |

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|----|--|-----|-----------|
| 55 | Measurement of the Lifetime of the $B_c^\pm$ in the Semileptonic Decay Channel. Physical Review Letters, 2009, 102, 092001.  | 3.9 | 53        |
| 56 | Measurement of prompt and nonprompt $J/\psi$ production in $pp$ collisions at $\sqrt{s} = 5.02$ TeV. European Physical Journal C, 2017, 77, 269.   | 3.9 | 52        |
| 57 | 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        |
| 58 | Measurements of the $pp \rightarrow ZZ$ production cross section and the $Z \rightarrow 4\ell$ branching fraction, and constraints on anomalous triple gauge couplings at. European Physical Journal C, 2018, 78, 165. | 3.9 | 50        |
| 59 | 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        |
| 60 | Search for a heavy pseudoscalar boson decaying to a Z and a Higgs boson at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 564.  | 3.9 | 49        |
| 61 | 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 | 48        |
| 62 | 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        |
| 63 | 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        |
| 64 | Search for vector-like quarks in events with two oppositely charged leptons and jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 364.                                   | 3.9 | 47        |
| 65 | 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 | 46        |
| 66 | Search for third-generation scalar leptoquarks decaying to a top quark and a $\tau$ lepton at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2018, 78, 707.   | 3.9 | 44        |
| 67 | Search for standard model production of four top quarks with same-sign and multilepton final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2018, 78, 140.                    | 3.9 | 43        |
| 68 | Search for natural and split supersymmetry in proton-proton collisions at $\sqrt{s} = 13$ TeV in final states with jets and missing transverse momentum. Journal of High Energy Physics, 2018, 2018, 1.                | 4.7 | 42        |
| 69 | Jet Production via Strongly Interacting Color-Singlet Exchange in $pp$ Collisions. Physical Review Letters, 1996, 76, 734-739.   | 7.8 | 42        |
| 70 | Search for vector-like T and B quark pairs in final states with leptons at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.   | 4.7 | 42        |
| 71 | 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 | 41        |
| 72 | Measurement of the $t\bar{t} \rightarrow t\bar{t} + \gamma$ production cross section in the $e^+e^-$ channel in proton-proton collisions at $\sqrt{s} = 7$ and 8 TeV. Journal of High Energy Physics, 2016, 2016, 1.   | 4.7 |           |

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|----|---|-----|-----------|
| 73 | Measurement of the $\sigma(\text{pp} \rightarrow \text{t}\bar{\text{t}} + \text{jets})$ 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        |
| 74 | 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        |
| 75 | Measurement of the $\sigma(\text{pp} \rightarrow \text{t}\bar{\text{t}} + \text{jets})$ production cross section using events in the $\text{e}\mu\text{e}\nu$ final state in pp collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2017, 77, 172.                          | 3.9 | 40        |
| 76 | Search for new physics in dijet angular distributions using proton-proton collisions at $\sqrt{s} = 13$ TeV and constraints on dark matter and other models. European Physical Journal C, 2018, 78, 789.  | 3.9 | 40        |
| 77 | Measurement of the top quark mass in the all-jets final state at $\sqrt{s} = 13$ TeV and combination with the lepton+jets channel. European Physical Journal C, 2019, 79, 313.  | 3.9 | 40        |
| 78 | Measurement of the Higgs boson production rate in association with top quarks in final states with electrons, muons, and hadronically decaying tau leptons at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 378.  | 3.9 | 40        |
| 79 | Measurement of the ZZ production cross section and search for anomalous couplings in $\text{ZZ} \rightarrow \text{e}\mu\text{e}\nu$ final states in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.   | 4.7 | 39        |
| 80 | 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        |
| 81 | Search for dark matter produced in association with heavy-flavor quark pairs in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2017, 77, 845.  | 3.9 | 38        |
| 82 | Search for heavy resonances that decay into a vector boson and a Higgs boson in hadronic final states at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2017, 77, 636.   | 3.9 | 38        |
| 83 | Evidence for associated production of a Higgs boson with a top quark pair in final states with electrons, muons, and hadronically decaying $\tau$ , leptons at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.  | 4.7 | 38        |
| 84 | Searches for third-generation squark production in fully hadronic final states in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.  | 4.7 | 37        |
| 85 | Measurement of the WZ production cross section in pp collisions at $\sqrt{s} = 7$ and $8$ TeV and search for anomalous triple gauge couplings at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2017, 77, 236.  | 3.9 | 37        |
| 86 | Search for a new scalar resonance decaying to a pair of Z bosons in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.   | 4.7 | 37        |
| 87 | Search for resonant and nonresonant Higgs boson pair production in the $\text{b}\bar{\text{b}}\text{H}\text{H} \rightarrow \text{b}\bar{\text{b}}\text{e}\mu\text{e}\nu$ final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 36        |
| 88 | Measurement of the cross section for top quark pair production in association with a W or Z boson in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.  | 4.7 | 35        |
| 89 | Measurements of production cross sections of the Higgs boson in the four-lepton final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 488.   | 3.9 | 35        |
| 90 | 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 $\hat{t}$ . Journal of High Energy Physics, 2013, 2013, 1.   | 4.7 | 34        |

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|-----|--|-----|-----------|
| 91  | Measurement of the asymmetry in angular distributions of leptons produced in dilepton final states in $t\bar{t}$ production in $pp$ collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2015, 2015, 1.  | 4.7 | 34        |
| 92  | Searches for supersymmetry using the M T2 variable in hadronic events produced in $pp$ collisions at 8 TeV. Journal of High Energy Physics, 2015, 2015, 1.   | 4.7 | 34        |
| 93  | Measurements of the $t\bar{t}\tau^+\tau^-$ production cross section in lepton+jets final states in $pp$ collisions at 8 TeV and ratio of 8 to 7A TeV cross sections. European Physical Journal C, 2017, 77, 15.  | 3.9 | 34        |
| 94  | Measurement of the top quark mass with lepton+jets final states using $pp$ collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2018, 78, 891.  | 3.9 | 34        |
| 95  | Search for a heavy right-handed W boson and a heavy neutrino in events with two same-flavor leptons and two jets at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.  | 4.7 | 34        |
| 96  | Search for single production of vector-like quarks decaying to a top quark and a W boson in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2019, 79, 90.  | 3.9 | 34        |
| 97  | Search for new physics in events with same-sign dileptons and b jets in $pp$ collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2013, 2013, 1.  | 4.7 | 33        |
| 98  | Search for heavy resonances decaying to two Higgs bosons in final states containing four b quarks. European Physical Journal C, 2016, 76, 371.   | 3.9 | 33        |
| 99  | Measurement of exclusive $\rho^0$ photoproduction in ultraperipheral pPb collisions at $\sqrt{s_{NN}}=5.02$ TeV. European Physical Journal C, 2019, 79, 702.   | 3.9 | 33        |
| 100 | Search for dark matter produced in association with a leptonically decaying Z boson in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2021, 81, 13.   | 3.9 | 33        |
| 101 | Search for top squark pair production using dilepton final states in $pp$ collision data collected at $\sqrt{s}=13$ TeV. European Physical Journal C, 2021, 81, 3.   | 3.9 | 33        |
| 102 | Measurement of normalised multi-differential cross sections in $pp$ collisions at $\sqrt{s}=13$ TeV, and simultaneous determination of the strong coupling strength, top quark pole mass, and parton distribution functions. European Physical Journal C, 2020, 80, 1. | 3.9 | 33        |
| 103 | Measurements of the ZZ production cross sections in the $2l2l$ channel in proton-proton collisions at $\sqrt{s}=7$ and $\sqrt{s}=8$ TeV. European Physical Journal C, 2015, 75, 511.   | 3.9 | 32        |
| 104 | Searches for pair production of third-generation squarks in $pp$ collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2017, 77, 327.  | 3.9 | 32        |
| 105 | Measurement of the Forward-Backward Charge Asymmetry and Extraction of $\sin^2\theta_W$ in $pp$ collisions at $\sqrt{s}=1.96$ TeV. Physical Review Letters, 2008, 101, 191801.   | 7.8 | 31        |
| 106 | Measurement of electroweak production of two jets in association with a Z boson in proton-proton collisions at $\sqrt{s}=8$ TeV. European Physical Journal C, 2015, 75, 66.  | 3.9 | 31        |
| 107 | Search for top squark pair production in $pp$ collisions at $\sqrt{s}=13$ TeV using single lepton events. Journal of High Energy Physics, 2017, 2017, 1.   | 4.7 | 31        |
| 108 | Search for disappearing tracks as a signature of new long-lived particles in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.   | 4.7 | 31        |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 109 | A multi-dimensional search for new heavy resonances decaying to boosted $W$ or $Z$ boson pairs in the dijet final state at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2020, 80, 237.  | 3.9 | 31        |
| 110 | Search for Large Extra Spatial Dimensions in the Dielectron and Diphoton Channels in $pp \rightarrow e^+e^-$ Collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2009, 102, 051601.  | 7.8 | 30        |
| 111 | Measurements of the associated production of a Z boson and b jets in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2017, 77, 751.  | 3.9 | 30        |
| 112 | Measurement of differential $t\bar{t}$ production cross sections in $pp \rightarrow t\bar{t}$ collisions. Physical Review D, 2014, 90, .   | 4.7 | 29        |
| 113 | A search for new phenomena in pp collisions at $\sqrt{s} = 13$ TeV in final states with missing transverse momentum and at least one jet using the $\alpha_{\pm T}$ variable. European Physical Journal C, 2017, 77, 294.                            | 3.9 | 29        |
| 114 | Search for light bosons in decays of the 125 GeV Higgs boson in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2017, 2017, 1.   | 4.7 | 29        |
| 115 | Search for lepton flavour violating decays of the Higgs boson to $\tau\mu$ , and $e\tau$ , in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.  | 4.7 | 29        |
| 116 | Observation of proton-tagged, central (semi)exclusive production of high-mass lepton pairs in pp collisions at 13 TeV with the CMS-TOTEM precision proton spectrometer. Journal of High Energy Physics, 2018, 2018, 1.                               | 4.7 | 29        |
| 117 | Search for dark matter produced in association with a Higgs boson decaying to a pair of bottom quarks in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 280.  | 3.9 | 29        |
| 118 | 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 $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.                             | 4.7 | 27        |
| 119 | Search for new physics in events with a leptonically decaying Z boson and a large transverse momentum imbalance in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2018, 78, 291.                                      | 3.9 | 27        |
| 120 | Tevatron Run II combination of the effective leptonic electroweak mixing angle. Physical Review D, 2018, 97, .   | 4.7 | 27        |
| 121 | Measurements of Higgs boson production cross sections and couplings in the diphoton decay channel at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2021, 2021, 1.   | 4.7 | 27        |
| 122 | Study of the $\sigma(\text{pp} \rightarrow \text{Z} \rightarrow \text{e}^+\text{e}^-) \times \text{BR}(\text{Z} \rightarrow \text{b}\bar{\text{b}})$ in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2018, 121, 021801. | 4.7 | 26        |
| 123 | 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 $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.                             | 4.7 | 26        |

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|-----|---|-----|-----------|
| 127 | Jet energy scale determination in the DO experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 763, 442-475.   | 1.6 | 24        |
| 128 | Search for third-generation scalar leptoquarks in the $t\bar{t}$ channel in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.  | 4.7 | 24        |
| 129 | Search for vector-like T quarks decaying to top quarks and Higgs bosons in the all-hadronic channel using jet substructure. Journal of High Energy Physics, 2015, 2015, 1.  | 4.7 | 24        |
| 130 | Measurements of $\sigma(\text{pp} \rightarrow \text{ZZ})$ production cross sections and constraints on anomalous triple gauge couplings at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 200.   | 3.9 | 24        |
| 131 | Measurement of $\sin^2 2\theta_{\text{eff}}^b$ and Z-light quark couplings using the forward-backward charge asymmetry in $\text{pp} \rightarrow Z \rightarrow e^+e^-$ events with $L = 5.0 \text{ ab}^{-1}$ at $\sqrt{s} = 1.96$ TeV. Physical Review D, 2011, 84, . | 4.7 | 23        |
| 132 | Observation of top quark pairs produced in association with a vector boson in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.   | 4.7 | 23        |
| 133 | Measurement of the jet mass in highly boosted $\text{pp} \rightarrow \text{t}\bar{\text{t}}$ events from pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2017, 77, 467.   | 3.9 | 23        |
| 134 | Measurement of the top quark mass using single top quark events in proton-proton collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2017, 77, 354.  | 3.9 | 23        |
| 135 | Measurement of the triple-differential dijet cross section in proton-proton collisions at $\sqrt{s} = 8$ TeV and constraints on parton distribution functions. European Physical Journal C, 2017, 77, 746.  | 3.9 | 23        |
| 136 | Search for physics beyond the standard model in events with jets and two same-sign or at least three charged leptons in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2020, 80, 752.  | 3.9 | 23        |
| 137 | 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. Journal of High Energy Physics, 2017, 2017, 1.  | 4.7 | 23        |
| 138 | Search for physics beyond the standard model in events with $\bar{t}$ , leptons, jets, and large transverse momentum imbalance in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2013, 73, 2493.   | 3.9 | 22        |
| 139 | Search for $t\bar{t} \rightarrow \text{t}\bar{\text{t}}$ resonances in highly boosted lepton+jets and fully hadronic final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.                                  | 4.7 | 22        |
| 140 | Search for massive resonances decaying into WW, WZ or ZZ bosons in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.  | 4.7 | 22        |
| 141 | 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. Journal of High Energy Physics, 2017, 2017, 1.   | 4.7 | 22        |
| 142 | Search for heavy neutrinos or third-generation leptoquarks in final states with two hadronically decaying $\bar{t}$ , leptons and two jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.                         | 4.7 | 22        |
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