

Eduard De La Cruz Burelo

List of Publications by Year in descending order

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Version: 2024-02-01

266
papers

9,902
citations

41344

49
h-index

53230

85
g-index

272
all docs

272
docs citations

272
times ranked

8157
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 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 | Performance of CMS muon reconstruction in pp collision events at $\sqrt{s} = 7$ TeV. Journal of Instrumentation, 2012, 7, P10002-P10002. | 1.2 | 467 |
| 4 | 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 |
| 5 | Observation of Sequential $\gamma\gamma$ Suppression in PbPb Collisions. Physical Review Letters, 2012, 109, 222301. | 7.8 | 220 |
| 6 | Evidence for a Particle Produced in Association with Weak Bosons and Decaying to a Bottom-Antibottom Quark Pair in Higgs Boson Searches at the Tevatron. Physical Review Letters, 2012, 109, 071804. | 7.8 | 201 |
| 7 | 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 |

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| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | 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 |
| 20 | 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 |
| 21 | 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 |
| 22 | 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 |
| 23 | 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 |
| 24 | 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 |
| 25 | Searches for physics beyond the standard model with the M_{T2} 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 |
| 26 | Measurement of the $\overline{t}t$ 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 |
| 27 | Measurement of the $t\overline{t}t\overline{t}$ 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 |
| 28 | Search for high mass dijet resonances with a new background prediction method in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1. | 4.7 | 66 |
| 29 | Search for a Light Pseudoscalar Higgs Boson in the Dimuon Decay Channel in pp collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2016, 76, 439. | 7.8 | 65 |
| 30 | 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 |
| 31 | 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 |
| 32 | Measurement of the Pseudorapidity and Centrality Dependence of the Transverse Energy Density in Pb-Pb Collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2012, 109, 152303. | 7.8 | 62 |
| 33 | 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 |
| 34 | Measurement of the inelastic proton-proton cross section at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 62 |
| 35 | Observation of Two Excited B_c States and Measurement of the B_c Lifetime. Physical Review Letters, 2020, 124, 131802. | 7.8 | 62 |
| 36 | Search for a Narrow Resonance Lighter than 200 GeV Decaying to a Pair of Muons in Proton-Proton Collisions at $\sqrt{s}=13$ TeV. Physical Review Letters, 2020, 124, 131802. | 7.8 | 61 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Measurement of the differential cross section $\frac{d\sigma}{d\Omega}(\theta, \phi)$ for the production of a top quark and a bottom quark in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2012, 2012, 1. | 4.7 | 59 |
| 38 | 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 |
| 39 | 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 |
| 40 | Measurements of Higgs boson properties in the diphoton decay channel in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 57 |
| 41 | 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 |
| 42 | 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 |
| 43 | Search for charged Higgs bosons in the $H_{\pm} \rightarrow \tau^{\pm} \nu_{\tau}$ decay channel in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1. | 4.7 | 54 |
| 44 | 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 |
| 45 | Measurements of the $\sigma(\text{pp} \rightarrow Z\gamma) / \sigma(\text{pp} \rightarrow Z)$ production cross section and the $\sigma(\text{pp} \rightarrow Z\gamma) / \sigma(\text{pp} \rightarrow Z)$ branching fraction, and constraints on anomalous triple gauge couplings at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2018, 78, 165. | 3.9 | 52 |
| 46 | Search for exclusive or semi-exclusive $\tilde{\chi}_1^0 \tilde{\chi}_1^0$ production and observation of exclusive and semi-exclusive $e^+e^- \rightarrow \tilde{\chi}_1^0 \tilde{\chi}_1^0$ production in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1. | 4.7 | 51 |
| 47 | 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 |
| 48 | Search for Axionlike Particles Produced in $pp \rightarrow \text{ALP} + \text{jet}$ Collisions at Belle II. Physical Review Letters, 2020, 125, 161806. | 7.8 | 50 |
| 49 | Search for leptonic decays of W^{\pm} bosons in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1. | 4.7 | 49 |
| 50 | Search for flavor changing neutral currents via quark-gluon couplings in single top quark production using 2.3 fb^{-1} of $pp \rightarrow t\bar{t} + \text{jet}$ collisions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2010, 693, 81-87. | 4.1 | 48 |
| 51 | Search for disappearing tracks in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1. | 4.7 | 46 |
| 52 | Search for third-generation scalar leptoquarks decaying to a top quark and a τ lepton at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2018, 78, 707. | 3.9 | 46 |
| 53 | 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 | 44 |
| 54 | Identification techniques for highly boosted W bosons that decay into hadrons. Journal of High Energy Physics, 2014, 2014, 1. | 4.7 | 43 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 55 | Constraints on the pMSSM, AMSB model and on other models from the search for long-lived charged particles in proton-proton collisions at $\sqrt{s} = 8, \text{ext} \{ \text{TeV} \}$ $s = 8 \text{ TeV}$. European Physical Journal C, 2015, 75, 325. | 3.9 | 43 |
| 56 | Search for natural and split supersymmetry in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ in final states with jets and missing transverse momentum. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 43 |
| 57 | Measurement of the top-quark mass in $\overline{\text{t}} \text{ events}$ with dilepton final states in pp collisions at $\sqrt{s} = 7 \text{ TeV}$. European Physical Journal C, 2012, 72, 1. | 3.9 | 42 |
| 58 | Measurement of the semileptonic charge asymmetry in B meson mixing with the D0 detector. Physical Review D, 2012, 86, . | 4.7 | 41 |
| 59 | Search for electroweak production of charginos and neutralinos using leptonic final states in pp collisions at $\sqrt{s} = 7 \text{ TeV}$. Journal of High Energy Physics, 2012, 2012, 1. | 4.7 | 41 |
| 60 | Measurement of the $t \bar{t} \overline{\text{t}} \text{ production}$ cross section in the $e \nu$ channel in proton-proton collisions at $s = 7 \sqrt{s} = 7 \text{ TeV}$ and 8 TeV. Journal of High Energy Physics, 2016, 2016, 1. | 4.7 | 41 |
| 61 | 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 $s = 13 \sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 41 |
| 62 | Measurement of properties of $B_{\text{u}}^0 \rightarrow \tau^+ \nu_{\tau} \tau^- \nu_{\tau}$ decays and search for $B_{\text{u}}^0 \rightarrow \tau^+ \nu_{\tau} \tau^- \nu_{\tau}$ with the CMS experiment. Journal of High Energy Physics, 2020, 2020, 1. | 4.7 | 41 |
| 63 | Search for charged Higgs bosons decaying into a top and a bottom quark in the all-jet final state of pp collisions at $\sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2020, 2020, 1. | 4.7 | 41 |
| 64 | Measurement of the Higgs boson production rate in association with top quarks in final states with electrons, muons, and hadronically decaying tau leptons at $\sqrt{s} = 13, \text{ext} \{ \text{TeV} \}$ $s = 13 \text{ TeV}$. European Physical Journal C, 2021, 81, 378. | 3.9 | 40 |
| 65 | Measurement of the ZZ production cross section and search for anomalous couplings in $2\ell, \ell\ell, \ell\ell$ final states in pp collisions at $\sqrt{s} = 7 \text{ TeV}$. Journal of High Energy Physics, 2013, 2013, 1. | 4.7 | 39 |
| 66 | Measurement of differential cross sections for $\text{ext} \{ Z \}$ Z boson production in association with jets in proton-proton collisions at $\sqrt{s} = 13, \text{ext} \{ \text{TeV} \}$ $s = 13 \text{ TeV}$. European Physical Journal C, 2018, 78, 965. | 3.9 | 39 |
| 67 | Observation of a narrow mass state decaying into $\Upsilon(1S) + \text{inpp} \sqrt{s} = 1.96 \text{ TeV}$. Physical Review D, 2012, 86, . | 4.7 | 38 |
| 68 | Measurement of the top-quark mass in $\overline{\text{t}} \text{ events}$ with lepton+jets final states in pp collisions at $\sqrt{s} = 7 \text{ TeV}$. Journal of High Energy Physics, 2012, 2012, 1. | 4.7 | 38 |
| 69 | Measurement of angular correlations of jets at $\sqrt{s} = 13 \text{ TeV}$. http://www.elsevier.com/xml/xocs/dtd xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:tbl_struct="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http://www.elsevier.com/xml/common/struct-bib/dtd" $s = 13 \text{ TeV}$. Journal of High Energy Physics, 2012, 2012, 1. | 4.1 | 38 |
| 70 | Measurement of the Semileptonic Charge Asymmetry using $B_{\text{u}}^0 \rightarrow \tau^+ \nu_{\tau} \tau^- \nu_{\tau}$ Decays. Physical Review Letters, 2013, 110, 011801. | 7.8 | 38 |
| 71 | Search for dark matter produced in association with heavy-flavor quark pairs in proton-proton collisions at $\sqrt{s} = 13, \text{ext} \{ \text{TeV} \}$ $s = 13 \text{ TeV}$. European Physical Journal C, 2017, 77, 845. | 3.9 | 38 |
| 72 | Search for heavy resonances that decay into a vector boson and a Higgs boson in hadronic final states at $\sqrt{s} = 13 \text{ TeV}$. European Physical Journal C, 2017, 77, 636. | 3.9 | 38 |

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|----|--|-----|-----------|
| 73 | Evidence for associated production of a Higgs boson with a top quark pair in final states with electrons, muons, and hadronically decaying l , leptons at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 38 |
| 74 | Search for an invisibly Decaying $Z \rightarrow \epsilon^2$ Boson at Belle II in $\langle \mathcal{M} \rangle$ collisions at $\sqrt{s}=13$ TeV. Physical Review Letters, 2020, 124, 141801. | 7.8 | 38 |
| 75 | Search for heavy Higgs bosons decaying to a top quark pair in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2020, 2020, 1. | 4.7 | 37 |
| 76 | 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. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 35 |
| 77 | 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 |
| 78 | 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 |
| 79 | Observation of Z decays to four leptons with the CMS detector at the LHC. Journal of High Energy Physics, 2012, 2012, 1. | 4.7 | 34 |
| 80 | 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 |
| 81 | Measurement of the underlying event in the Drell-Yan process in proton-proton collisions at $\sqrt{s}=7$ TeV. European Physical Journal C, 2012, 72, 1. | 3.9 | 33 |
| 82 | Limits on anomalous trilinear gauge boson couplings from WW , WZ and $W\tilde{\chi}^0_1$ production in $\langle \mathcal{M} \rangle$ collisions at $\sqrt{s}=13$ TeV. Physical Review D, 2013, 87, . | 4.1 | 33 |
| 83 | Measurement of leptonic asymmetries and top-quark polarization in $t\bar{t}$ production. Physical Review D, 2013, 87, . | 4.7 | 33 |
| 84 | Search for heavy neutrinos and third-generation leptoquarks in hadronic states of two l , leptons and two jets in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2019, 2019, 1. | 4.7 | 33 |
| 85 | 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 |
| 86 | Search for top squark pair production using dilepton final states in collision data collected at $\sqrt{s}=13$ TeV. European Physical Journal C, 2021, 81, 3. | 3.9 | 33 |
| 87 | 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 |
| 88 | Combined Search for the Standard Model Higgs Boson Decaying to $b\bar{b}$ Using the D0 Run II Data Set. Physical Review Letters, 2012, 109, 121802. | 7.8 | 32 |
| 89 | Measurement of the $Z \rightarrow b\bar{b}$ production differential cross section in $\langle \mathcal{M} \rangle$ collisions at $\sqrt{s}=13$ TeV. Physical Review Letters, 2013, 111, 121802. | 4.1 | 32 |
| 90 | Measurements of the $Z \rightarrow Z$ production cross sections in the $2\ell 2\ell$ channel in proton-proton collisions at $\sqrt{s}=7$ and 8 TeV. European Physical Journal C, 2015, 75, 511. | 3.9 | 32 |

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|-----|---|-----|-----------|
| 91 | Searches for pair production of third-generation squarks in $\sqrt{s}=13$ TeV pp collisions. <i>European Physical Journal C</i> , 2017, 77, 327. | 3.9 | 32 |
| 92 | Shape, transverse size, and charged-hadron multiplicity of jets in pp collisions at $\sqrt{s}=7$ TeV. <i>Journal of High Energy Physics</i> , 2012, 2012, 1. | 4.7 | 31 |
| 93 | Search for top squark pair production in pp collisions at $s = 13$ TeV using single lepton events. <i>Journal of High Energy Physics</i> , 2017, 2017, 1. | 4.7 | 31 |
| 94 | Search for disappearing tracks as a signature of new long-lived particles in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>Journal of High Energy Physics</i> , 2018, 2018, 1. | 4.7 | 31 |
| 95 | A multi-dimensional search for new heavy resonances decaying to boosted W , Z , or Z boson pairs in the dijet final state at $\sqrt{s}=13$ TeV. <i>European Physical Journal C</i> , 2020, 80, 237. | 3.9 | 31 |
| 96 | 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> , 2012, 2012, 1. | 4.7 | 30 |
| 97 | Measurements of the associated production of a Z boson and b jets in pp collisions at $\sqrt{s} = 8$ TeV. <i>European Physical Journal C</i> , 2017, 77, 751. | 3.9 | 30 |
| 98 | Observation of Single Top Quark Production in Association with a Z boson in Proton-Proton Collisions at $\sqrt{s}=13$ TeV. <i>Physical Review Letters</i> , 2019, 122, 132003. | 7.8 | 30 |
| 99 | Search for light bosons in decays of the 125 GeV Higgs boson in proton-proton collisions at $s = 8$ TeV. <i>Journal of High Energy Physics</i> , 2017, 2017, 1. | 4.7 | 29 |
| 100 | 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. <i>European Physical Journal C</i> , 2019, 79, 280. | 3.9 | 29 |
| 101 | Measurements of $\overline{\sigma}(\mathbb{H})$ differential cross sections in proton-proton collisions at $\sqrt{s}=13$ TeV using events containing two leptons. <i>Journal of High Energy Physics</i> , 2019, 2019, 1. | 4.7 | 28 |
| 102 | Search for $\overline{\sigma}(\mathbb{H})$ production in the $\mathbb{H} \rightarrow \mathbb{b}\overline{\mathbb{b}}$ decay channel with leptonic $\overline{\sigma}(\mathbb{H})$ decays in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>Journal of High Energy Physics</i> , 2019, 2019, 1. | 4.7 | 28 |
| 103 | Search for supersymmetry in final states with two oppositely charged same-flavor leptons and missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , 2021, 2021, 1. | 4.7 | 28 |
| 104 | Measurements of differential Z boson production cross sections in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , 2019, 2019, 1. | 4.7 | 28 |
| 105 | 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. <i>European Physical Journal C</i> , 2018, 78, 291. | 3.9 | 27 |
| 106 | Performance of the reconstruction and identification of high-momentum muons in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Journal of Instrumentation</i> , 2020, 15, P02027-P02027. | 1.2 | 27 |
| 107 | Search for new neutral Higgs bosons through the $\mathbb{H} \rightarrow \mathbb{Z}\mathbb{A} \rightarrow \ell\ell^+\ell\ell^-\mathbb{b}\overline{\mathbb{b}}$ process in pp collisions at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , 2020, 2020, 1. | 4.7 | 27 |
| 108 | Search for resonant $\overline{\sigma}(\mathbb{H})$ production in lepton+jets events in pp collisions at $\sqrt{s}=7$ TeV. <i>Journal of High Energy Physics</i> , 2012, 2012, 1. | 4.7 | 26 |

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|-----|--|-----|-----------|
| 109 | Ratios of dijet production cross sections as a function of the absolute difference in rapidity between jets in proton-proton collisions at $\sqrt{s} = 7 \text{ TeV}$. European Physical Journal C, 2012, 72, 1. | 3.9 | 26 |
| 110 | Measurement of the W boson helicity in events with a single reconstructed top quark in pp collisions at $s = 8 \text{ TeV}$. Journal of High Energy Physics, 2015, 2015, 1. | 4.7 | 26 |
| 111 | Search for nonresonant Higgs boson pair production in final states with two bottom quarks and two photons in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2021, 2021, 1. | 4.7 | 26 |
| 112 | Search for a charged Higgs boson decaying into top and bottom quarks in events with electrons or muons in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2020, 2020, 1. | 4.7 | 26 |
| 113 | Search for high-mass resonances in final states with a lepton and missing transverse momentum at $\sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 25 |
| 114 | Search for physics beyond the standard model in multilepton final states in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2020, 2020, 1. | 4.7 | 25 |
| 115 | Search for a heavy Higgs boson decaying to a pair of W bosons in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2020, 2020, 1. | 4.7 | 25 |
| 116 | Search for new particles decaying to a jet and an emerging jet. Journal of High Energy Physics, 2019, 2019, 1. | 4.7 | 24 |
| 117 | Measurements of $\sigma(\text{pp} \rightarrow \text{p} + \text{p} + \text{p})$ collisions at $\sqrt{s} = 13 \text{ TeV}$. European Physical Journal C, 2021, 81, 200. | 7.8 | 24 |
| 118 | Measurements of $\sigma(\text{pp} \rightarrow \text{Z} + \text{Z})$ production cross sections and constraints on anomalous triple gauge couplings at $\sqrt{s} = 13 \text{ TeV}$. European Physical Journal C, 2021, 81, 200. | 3.9 | 24 |
| 119 | Search for resonant $\text{pp} \rightarrow \text{t} + \text{t}$ production in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2019, 2019, 1. | 4.1 | 23 |
| 120 | Search for resonant $\text{pp} \rightarrow \text{t} + \text{t}$ production in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2019, 2019, 1. | 4.7 | 23 |
| 121 | Search for Low-Mass Quark-Antiquark Resonances Produced in Association with a Photon at $\sqrt{s} = 13 \text{ TeV}$. Physical Review Letters, 2019, 123, 231803. | 7.8 | 23 |
| 122 | Search for a light pseudoscalar Higgs boson in the boosted $\text{pp} \rightarrow \text{t} + \text{t}$ final state in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2020, 2020, 1. | 4.7 | 23 |
| 123 | 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 $\sqrt{s} = 13 \text{ TeV}$. European Physical Journal C, 2020, 80, 752. | 3.9 | 23 |
| 124 | Search for Third Generation Scalar Leptoquarks Decaying into $\text{pp} \rightarrow \text{t} + \text{t}$. Physical Review Letters, 2008, 101, 241802. | 7.8 | 22 |
| 125 | Search for pair production of second generation scalar leptoquarks. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2009, 671, 224-232. | 4.1 | 22 |
| 126 | Search for direct production of supersymmetric partners of the top quark in the all-jets final state in proton-proton collisions at $s = 13 \text{ TeV}$. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 22 |

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|-----|---|-----|-----------|
| 127 | Search for direct pair production of supersymmetric partners to the $\tau^+\tau^-$ lepton in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2020, 80, 189. | 3.9 | 22 |
| 128 | Measurement of differential cross sections and charge ratios for t-channel single top quark production in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2020, 80, 370. | 3.9 | 22 |
| 129 | Search for a light charged Higgs boson in the $W\tau^+\tau^-$ final state in proton-proton collisions at $\sqrt{s}=13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 805, 291-296. | 4.1 | 21 |
| 130 | Search for supersymmetry in events with a \tilde{l} , lepton pair and missing transverse momentum in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 21 |
| 131 | Search for a light charged Higgs boson decaying to a $W\tau^+\tau^-$ final state in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 7.8 | 21 |
| 132 | A Deep Neural Network for Simultaneous Estimation of b Jet Energy and Resolution. Computing and Software for Big Science, 2020, 4, 10. | 2.9 | 21 |
| 133 | Search for direct top squark pair production in events with one lepton, jets, and missing transverse momentum at 13 TeV with the CMS experiment. Journal of High Energy Physics, 2020, 2020, 1. | 4.7 | 21 |
| 134 | Search for $t\bar{t}H$ production in the all-jet final state in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 20 |
| 135 | Search for dark matter in events with energetic, hadronically decaying top quarks and missing transverse momentum at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 20 |
| 136 | Observation of the Production of Three Massive Gauge Bosons at $\sqrt{s}=13$ TeV. Physical Review Letters, 2020, 125, 151802. | 7.8 | 20 |
| 137 | Measurement of top quark pair production in association with a Z boson in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2020, 2020, 1. | 4.7 | 20 |
| 138 | Measurement of the cross section for electroweak production of a Z boson, a photon and two jets in proton-proton collisions at $\sqrt{s}=13$ TeV and constraints on anomalous quartic couplings. Journal of High Energy Physics, 2020, 2020, 1. | 4.7 | 20 |
| 139 | A search for the standard model Higgs boson decaying to charm quarks. Journal of High Energy Physics, 2020, 2020, 1. | 4.7 | 20 |
| 140 | Search for scalar leptoquarks and T-odd quarks in the acoplanar jet topology using of collision data at. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2008, 668, 357-363. | 4.1 | 19 |
| 141 | Measurement of the top-quark mass in $p\bar{p}$ collisions using events with two leptons. Physical Review D, 2012, 86, . | 4.7 | 19 |
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