

Shahram Rahatlou

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

613
papers

21,046
citations

70
h-index

111
g-index

641
ext. papers

23,542
ext. citations

5.1
avg, IF

2.54
L-index

| # | Paper | IF | Citations |
|-----|---|-----|-----------|
| 613 | Observation of a broad structure in the $\pi^+ \pi^- J/\psi$ mass spectrum around 4.26 GeV/c ² . <i>Physical Review Letters</i> , 2005 , 95, 142001 | 7.4 | 526 |
| 612 | 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 [Formula: see text]. <i>European Physical Journal C</i> , 2015 , 75, 212 | 4.2 | 399 |
| 611 | Observation of long-range, near-side angular correlations in proton-proton collisions at the LHC. <i>Journal of High Energy Physics</i> , 2010 , 2010, 1 | 5.4 | 389 |
| 610 | Observation of CP violation in the B(0) meson system. <i>Physical Review Letters</i> , 2001 , 87, 091801 | 7.4 | 373 |
| 609 | Study of high-p _T charged particle suppression in PbPb compared to pp collisions at ($\sqrt{s_{\text{NN}}}$)=2.76~mathrm{TeV}). <i>European Physical Journal C</i> , 2012 , 72, 1 | 4.2 | 316 |
| 608 | 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> , 2013 , 2013, 1 | 5.4 | 261 |
| 607 | 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> , 2015 , 75, 235 | 4.2 | 250 |
| 606 | Event generator tunes obtained from underlying event and multiparton scattering measurements. <i>European Physical Journal C</i> , 2016 , 76, 155 | 4.2 | 250 |
| 605 | Observation of the diphoton decay of the Higgs boson and measurement of its properties. <i>European Physical Journal C</i> , 2014 , 74, 3076 | 4.2 | 239 |
| 604 | The Physics of the B Factories. <i>European Physical Journal C</i> , 2014 , 74, 1 | 4.2 | 233 |
| 603 | Transverse-momentum and pseudorapidity distributions of charged hadrons in pp collisions at (\sqrt{s}) = 0.9) and 2.36 TeV. <i>Journal of High Energy Physics</i> , 2010 , 2010, 1 | 5.4 | 201 |
| 602 | Evidence of a broad structure at an invariant mass of 4.32 GeV/c ² in the reaction $e^+e^- \rightarrow \pi^+\pi^-\psi(2S)$ measured at BABAR. <i>Physical Review Letters</i> , 2007 , 98, 212001 | 7.4 | 200 |
| 601 | Evidence for D ⁰ -D ⁰ mixing. <i>Physical Review Letters</i> , 2007 , 98, 211802 | 7.4 | 186 |
| 600 | Suppression of non-prompt J/ψ and (Υ)(1S) in PbPb collisions at ($\sqrt{s_{\text{NN}}}$) = 2.76) TeV. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1 | 5.4 | 184 |
| 599 | 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> , 2014 , 74, 3036 | 4.2 | 183 |
| 598 | Study of $e^+e^- \rightarrow \mu^+\mu^-$ using initial state radiation with BABAR. <i>Physical Review D</i> , 2006 , 73, | 4.9 | 180 |
| 597 | Search for top-squark pair production in the single-lepton final state in pp collisions at (\sqrt{s})=8 mathrm{TeV}). <i>European Physical Journal C</i> , 2013 , 73, 1 | 4.2 | 162 |

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| 596 | Centrality dependence of dihadron correlations and azimuthal anisotropy harmonics in PbPb collisions at ($\sqrt{s_{NN}} = 2.76$ mbox{TeV}). <i>European Physical Journal C</i> , 2012 , 72, 1 | 4.2 | 158 |
| 595 | 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> , 2012 , 2012, 1 | 5.4 | 155 |
| 594 | Combined measurements of Higgs boson couplings in proton-proton collisions at. <i>European Physical Journal C</i> , 2019 , 79, 421 | 4.2 | 153 |
| 593 | 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> , 2014 , 74, 3149 | 4.2 | 149 |
| 592 | Measurement of Higgs boson production and properties in the WW decay channel with leptonic final states. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1 | 5.4 | 144 |
| 591 | Measurement of double charmonium production in $e+e$ annihilations at $s=10.6$ GeV. <i>Physical Review D</i> , 2005 , 72, | 4.9 | 136 |
| 590 | Study of the inclusive production of charged pions, kaons, and protons in pp collisions at ($\sqrt{s} = 0.9, 2.76$, mbox{ and }7~mbox{TeV}). <i>European Physical Journal C</i> , 2012 , 72, 1 | 4.2 | 133 |
| 589 | Search for invisible decays of Higgs bosons in the vector boson fusion and associated ZH production modes. <i>European Physical Journal C</i> , 2014 , 74, 2980 | 4.2 | 131 |
| 588 | Measurements of $e+e \rightarrow K+K, K+K, K+K$, and K_s0K+K cross sections using initial state radiation events. <i>Physical Review D</i> , 2008 , 77, | 4.9 | 127 |
| 587 | The BaBar detector: Upgrades, operation and performance. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2013 , 729, 615-701 | 1.2 | 125 |
| 586 | 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> , 2011 , 2011, 1 | 5.4 | 121 |
| 585 | Measurements of branching fractions, rate asymmetries, and angular distributions in the rare decays $B \rightarrow K^* \mu \mu$ and $B \rightarrow K^* \mu \mu$ <i>Physical Review D</i> , 2006 , 73, | 4.9 | 119 |
| 584 | Prompt and non-prompt J/ψ production in pp collisions at ($\sqrt{s} = 7$) TeV. <i>European Physical Journal C</i> , 2011 , 71, 1 | 4.2 | 118 |
| 583 | Observation of a new Ds meson decaying to DK at a mass of 2.86 GeV/c ² . <i>Physical Review Letters</i> , 2006 , 97, 222001 | 7.4 | 117 |
| 582 | Search for doubly charmed baryons $\bar{d}c^+$ and $\bar{d}c^{++}$ in BABAR. <i>Physical Review D</i> , 2006 , 74, | 4.9 | 116 |
| 581 | A search for a doubly-charged Higgs boson in pp collisions at ($\sqrt{s} = 7$ mbox{TeV}). <i>European Physical Journal C</i> , 2012 , 72, 1 | 4.2 | 111 |
| 580 | Observation of $Y(3940) \rightarrow J/\psi \omega$ in $B \rightarrow J/\psi \omega K$ at BABAR. <i>Physical Review Letters</i> , 2008 , 101, 082001 | 7.4 | 111 |
| 579 | The $e+e \rightarrow 2(\mu\mu), 2(\mu\mu)K+K, K+K$ cross sections measured with initial-state radiation. <i>Physical Review D</i> , 2007 , 76, | 4.9 | 111 |

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| 578 | The $e^+e^- \rightarrow 3(\pi^0) 2(\pi^0)$ and $K^+K^0(\pi^0)$ cross sections at center-of-mass energies from production threshold to 4.5 GeV measured with initial-state radiation. <i>Physical Review D</i> , 2006 , 73, | 4.9 | 107 |
| 577 | Search for $B^+ \rightarrow X(3872)K^+$, $X(3872) \rightarrow J/\psi$ <i>Physical Review D</i> , 2006 , 74, | 4.9 | 106 |
| 576 | Measurements of inclusive W and Z cross sections in pp collisions at ($\sqrt{s} = 7$) TeV. <i>Journal of High Energy Physics</i> , 2011 , 2011, 1 | 5.4 | 104 |
| 575 | Measurement of differential top-quark-pair production cross sections in pp collisions at ($\sqrt{s} = 7$ mathrm{TeV}). <i>European Physical Journal C</i> , 2013 , 73, 1 | 4.2 | 102 |
| 574 | Structure at 2175 MeV in $e^+e^- \rightarrow \rho^0(980)$ observed via initial-state radiation. <i>Physical Review D</i> , 2006 , 74, | 4.9 | 102 |
| 573 | Evidence for the 125 GeV Higgs boson decaying to a pair of τ leptons. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1 | 5.4 | 101 |
| 572 | Search for a light charged Higgs boson in top quark decays in pp collisions at ($\sqrt{s} = 7$;TeV). <i>Journal of High Energy Physics</i> , 2012 , 2012, 1 | 5.4 | 101 |
| 571 | Study of resonances in exclusive B decays to $D\pi^*D^*K$. <i>Physical Review D</i> , 2008 , 77, | 4.9 | 100 |
| 570 | Measurement of CP-violating asymmetries in B^0 decays to CP eigenstates. <i>Physical Review Letters</i> , 2001 , 86, 2515-22 | 7.4 | 100 |
| 569 | CMS tracking performance results from early LHC operation. <i>European Physical Journal C</i> , 2010 , 70, 1165-1192 | 4.9 | 99 |
| 568 | Measurement of the differential cross section for top quark pair production in pp collisions at [Formula: see text]. <i>European Physical Journal C</i> , 2015 , 75, 542 | 4.2 | 98 |
| 567 | Observation of a Charmed Baryon Decaying to $D;^0p$ at a Mass Near 2.94 GeV/c;{2}. <i>Physical Review Letters</i> , 2007 , 98, 012001 | 7.4 | 97 |
| 566 | Searches for long-lived charged particles in pp collisions at (\sqrt{s}) =7 and 8 TeV. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1 | 5.4 | 96 |
| 565 | Search for supersymmetry in hadronic final states using M T2 in pp collisions at (\sqrt{s})=7 TeV. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1 | 5.4 | 92 |
| 564 | Search for lepton flavor violation in the decay $\tau^+ \rightarrow e^+ \gamma$. <i>Physical Review Letters</i> , 2006 , 96, 041801 | 7.4 | 91 |
| 563 | Charged particle multiplicities in pp interactions at ($\sqrt{s} = 0.9$), 2.36, and 7 TeV. <i>Journal of High Energy Physics</i> , 2011 , 2011, 1 | 5.4 | 89 |
| 562 | Dalitz-plot analysis of the decays $B^0 \rightarrow K^0 \pi^0$. <i>Physical Review D</i> , 2005 , 72, | 4.9 | 89 |
| 561 | Dependence on pseudorapidity and on centrality of charged hadron production in PbPb collisions at ($\sqrt{s_{NN}}$) = 2.76 TeV. <i>Journal of High Energy Physics</i> , 2011 , 2011, 1 | 5.4 | 87 |

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| 560 | $e+e \rightarrow K+K \rightarrow K+K \rightarrow K+K$ and $K+K \rightarrow K+K$ cross sections measured with initial-state radiation. <i>Physical Review D</i> , 2007 , 76, | 4.9 | 86 |
| 559 | Observation of an excited charm baryon Ω_c^* decaying to $\Omega_c \gamma$. <i>Physical Review Letters</i> , 2006 , 97, 232001 | 7.4 | 86 |
| 558 | Measurements of the $B \rightarrow X_s \gamma$ branching fraction and photon spectrum from a sum of exclusive final states. <i>Physical Review D</i> , 2005 , 72, | 4.9 | 86 |
| 557 | 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> , 2013 , 73, 2568 | 4.2 | 82 |
| 556 | Search for new physics in the multijet and missing transverse momentum final state in proton-proton collisions at $(\sqrt{s}) = 8$ TeV. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1 | 5.4 | 81 |
| 555 | Study of $e+e \rightarrow \mu^+ \mu^- \gamma \gamma$ using initial state radiation with BABAR. <i>Physical Review D</i> , 2007 , 76, | 4.9 | 81 |
| 554 | Observation of the semileptonic decays $B \rightarrow D^* \tau \nu_\tau$ and evidence for $B \rightarrow D \tau \nu_\tau$. <i>Physical Review Letters</i> , 2008 , 100, 021801 | 7.4 | 79 |
| 553 | Strange particle production in pp collisions at $(\sqrt{s} = 0.9)$ and 7 TeV. <i>Journal of High Energy Physics</i> , 2011 , 2011, 1 | 5.4 | 78 |
| 552 | Measurements of properties of the Higgs boson decaying into the four-lepton final state in pp collisions at $(\sqrt{s} = 13)$ TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1 | 5.4 | 77 |
| 551 | Study of the $X(3872)$ and $Y(4260)$ in $B_0 \rightarrow J/\psi K^0$ and $B \rightarrow J/\psi K^{\pm}$ decays. <i>Physical Review D</i> , 2006 , 73, | 4.9 | 76 |
| 550 | Search for massive resonances in dijet systems containing jets tagged as W or Z boson decays in pp collisions at $(\sqrt{s}) = 8$ TeV. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1 | 5.4 | 74 |
| 549 | Searches for invisible decays of the Higgs boson in pp collisions at $(\sqrt{s}) = 7, 8,$ and 13 TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1 | 5.4 | 74 |
| 548 | 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> , 2015 , 2015, 1 | 5.4 | 73 |
| 547 | Measurement of jet fragmentation into charged particles in pp and PbPb collisions at $(\sqrt{s_{\text{NN}}} = 2.76)$ TeV. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1 | 5.4 | 73 |
| 546 | Study of the exclusive initial-state-radiation production of the $D\bar{D}^*$ system. <i>Physical Review D</i> , 2007 , 76, | 4.9 | 73 |
| 545 | 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> , 2014 , 74, 2847 | 4.2 | 71 |
| 544 | Search for neutral MSSM Higgs bosons decaying to a pair of tau leptons in pp collisions. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1 | 5.4 | 70 |
| 543 | Measurement of the single-top-quark t-channel cross section in pp collisions at $(\sqrt{s} = 7)$ TeV. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1 | 5.4 | 70 |

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| 542 | Measurement of the underlying event activity at the LHC with ($\sqrt{s} = 7$) TeV and comparison with ($\sqrt{s} = 0.9$) TeV. <i>Journal of High Energy Physics</i> , 2011 , 2011, 1 | 5-4 | 70 |
| 541 | 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> , 2015 , 2015, 1 | 5-4 | 69 |
| 540 | J/ψ and $\psi(2S)$ production in pp collisions at ($\sqrt{s} = 7$ TeV). <i>Journal of High Energy Physics</i> , 2012 , 2012, 1 | 5-4 | 69 |
| 539 | 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> , 2014 , 74, 1 | 4-2 | 67 |
| 538 | Search for anomalous production of multilepton events in pp collisions at ($\sqrt{s} = 7$, TeV). <i>Journal of High Energy Physics</i> , 2012 , 2012, 1 | 5-4 | 65 |
| 537 | Search for T, CP, and CPT violation in B_0 - \bar{B}_0 mixing with inclusive dilepton events. <i>Physical Review Letters</i> , 2006 , 96, 251802 | 7-4 | 65 |
| 536 | Measurement of the $B \rightarrow \rho K$ branching fraction and study of the decay dynamics. <i>Physical Review D</i> , 2005 , 72, | 4-9 | 65 |
| 535 | Measurement of the Cabibbo-Kobayashi-Maskawa angle γ in $B \rightarrow D^* K$ decays with a Dalitz analysis of $D \rightarrow K(S)\pi\pi$. <i>Physical Review Letters</i> , 2005 , 95, 121802 | 7-4 | 65 |
| 534 | Charged-particle nuclear modification factors in PbPb and pPb collisions at ($\sqrt{s_{\mathrm{NN}}}=5.02$) TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1 | 5-4 | 64 |
| 533 | 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> , 2012 , 2012, 1 | 5-4 | 64 |
| 532 | Search for high-mass resonances in dilepton final states in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1 | 5-4 | 63 |
| 531 | Search for $B \rightarrow \rho$ decays with hadronic B tags. <i>Physical Review D</i> , 2008 , 77, | 4-9 | 62 |
| 530 | Extraction and validation of a new set of CMS pythia8 tunes from underlying-event measurements. <i>European Physical Journal C</i> , 2020 , 80, 4 | 4-2 | 61 |
| 529 | 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> , 2014 , 2014, 1 | 5-4 | 61 |
| 528 | Search for a charged Higgs boson in pp collisions at ($\sqrt{s}=8$) TeV. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1 | 5-4 | 61 |
| 527 | Study of excited charm-strange baryons with evidence for new baryons $\bar{\Lambda}(3055)^+$ and $\bar{\Lambda}(3123)^+$. <i>Physical Review D</i> , 2008 , 77, | 4-9 | 61 |
| 526 | 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> , 2014 , 2014, 1 | 5-4 | 60 |
| 525 | Search for CP violation in the decays $D_0 \rightarrow K^- K^+$ and $D_0 \rightarrow \pi^- \pi^+$. <i>Physical Review Letters</i> , 2008 , 100, 061803 | 7-4 | 60 |

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| 524 | Measurements of the absolute branching fractions of $B^{\pm} \rightarrow K^{\pm} X(cc)$. <i>Physical Review Letters</i> , 2006 , 96, 052002 | 7.4 | 60 |
| 523 | 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> , 2014 , 2014, 1 | 5.4 | 59 |
| 522 | Measurement of the $\bar{B} \rightarrow D^* \ell^+ \nu_{\ell}$ transition form factors at $q^2 = 112$ GeV ² . <i>Physical Review D</i> , 2006 , 74, | 4.9 | 59 |
| 521 | Suppression and azimuthal anisotropy of prompt and nonprompt [Formula: see text] production in PbPb collisions at [Formula: see text][Formula: see text]. <i>European Physical Journal C</i> , 2017 , 77, 252 | 4.2 | 58 |
| 520 | Search for anomalous ($\overline{t}t$) production in the highly-boosted all-hadronic final state. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1 | 5.4 | 57 |
| 519 | 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> , 2013 , 2013, 1 | 5.4 | 56 |
| 518 | Measurement of the W^+W^- cross section in pp collisions at $(\sqrt{s} = 7 \text{ TeV})$ and limits on anomalous WW and WWZ couplings. <i>European Physical Journal C</i> , 2013 , 73, 1 | 4.2 | 56 |
| 517 | Long-range and short-range dihadron angular correlations in central PbPb collisions at $(\sqrt{s_{NN}}) = 2.76$ TeV. <i>Journal of High Energy Physics</i> , 2011 , 2011, 1 | 5.4 | 56 |
| 516 | 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> , 2015 , 75, 251 | 4.2 | 55 |
| 515 | Measurement of the $B \rightarrow X_s \gamma$ branching fraction and photon energy spectrum using the recoil method. <i>Physical Review D</i> , 2008 , 77, | 4.9 | 55 |
| 514 | Exclusive branching-fraction measurements of semileptonic tau decays into three charged hadrons, into $\phi \pi^0 \nu_{\tau}$, and into $\phi K^0 \nu_{\tau}$. <i>Physical Review Letters</i> , 2008 , 100, 011801 | 7.4 | 55 |
| 513 | 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> , 2017 , 77, 710 | 4.2 | 54 |
| 512 | Determining Higgs couplings with a model-independent analysis of $h \rightarrow \gamma\gamma$. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1 | 5.4 | 54 |
| 511 | Observation of CP violation in $B^0 \rightarrow K^+ \pi^-$ and $B^0 \rightarrow \pi^+ \pi^-$. <i>Physical Review Letters</i> , 2007 , 99, 021603 | 7.4 | 54 |
| 510 | Search for $(B^0_{\text{tag}} \rightarrow \bar{B}^0 \text{ and } B^0 \rightarrow \bar{B}^0)$ decays. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1 | 5.4 | 52 |
| 509 | Observation of $B^+ \rightarrow K^0 K^+$ and $B^0 \rightarrow K^0 K^0$. <i>Physical Review Letters</i> , 2006 , 97, 171805 | 7.4 | 52 |
| 508 | Dalitz plot analysis of the decay $B^0 \rightarrow K^0 K^0 K^0$. <i>Physical Review D</i> , 2006 , 74, | 4.9 | 52 |
| 507 | Measurement of the branching fraction and photon energy moments of $B \rightarrow X_s \gamma$ and $A(\text{CP})(B \rightarrow X(s+d) \gamma)$. <i>Physical Review Letters</i> , 2006 , 97, 171803 | 7.4 | 52 |

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| 506 | Measurement of the $B_0 \rightarrow \pi^-(\ell^+ \nu)$ form-factor shape and branching fraction, and determination of $ V_{ub} $ with a loose neutrino reconstruction technique. <i>Physical Review Letters</i> , 2007 , 98, 091801 | 7.4 | 52 |
| 505 | Measurements of differential and double-differential Drell-Yan cross sections in proton-proton collisions at $\sqrt{s} = 7$ TeV. <i>European Physical Journal C</i> , 2015 , 75, 147 | 4.2 | 50 |
| 504 | 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. <i>European Physical Journal C</i> , 2013 , 73, 1 | 4.2 | 50 |
| 503 | 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> , 2013 , 73, 2469 | 4.2 | 49 |
| 502 | Nuclear effects on the transverse momentum spectra of charged particles in pPb collisions at $\sqrt{s} = 2.76$ TeV. <i>European Physical Journal C</i> , 2015 , 75, 237 | 4.2 | 48 |
| 501 | 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. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1 | 5.4 | 48 |
| 500 | 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> , 2011 , 2011, 1 | 5.4 | 48 |
| 499 | The SABRE project and the SABRE Proof-of-Principle. <i>European Physical Journal C</i> , 2019 , 79, 1 | 4.2 | 46 |
| 498 | 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> , 2017 , 2017, 1 | 5.4 | 46 |
| 497 | Measurement of the relative prompt production rate of $t\bar{t}$ and $b\bar{b}$ in pp collisions at $\sqrt{s} = 7$ TeV. <i>European Physical Journal C</i> , 2012 , 72, 2251 | 4.2 | 46 |
| 496 | Search for new physics with same-sign isolated dilepton events with jets and missing transverse energy at the LHC. <i>Journal of High Energy Physics</i> , 2011 , 2011, 1 | 5.4 | 46 |
| 495 | 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> , 2011 , 2011, 1 | 5.4 | 46 |
| 494 | Study of $B_0 \rightarrow \pi^0 \pi^0$ decays and constraints on the CKM angle β . <i>Physical Review D</i> , 2007 , 76, | 4.9 | 46 |
| 493 | Exclusive $B \rightarrow \pi^+ \pi^-$ production in proton-proton collisions at $\sqrt{s} = 7$ TeV. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1 | 5.4 | 45 |
| 492 | Search for the associated production of the Higgs boson with a top-quark pair. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1 | 5.4 | 45 |
| 491 | Search for exclusive or semi-exclusive $\mu^+ \mu^-$ production and observation of exclusive and semi-exclusive $e^+ e^-$ production in pp collisions at $\sqrt{s} = 7$ TeV. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1 | 5.4 | 45 |
| 490 | Measurement of the sum of WW and WZ production with W+dijet events in pp collisions at $\sqrt{s} = 7$ TeV. <i>European Physical Journal C</i> , 2013 , 73, 2283 | 4.2 | 45 |
| 489 | Search for CPT and lorentz violation in $B_0 - \bar{B}_0$ oscillations with dilepton events. <i>Physical Review Letters</i> , 2008 , 100, 131802 | 7.4 | 45 |

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| 488 | 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> , 2013 , 2013, 1 | 5-4 | 44 |
| 487 | 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> , 2012 , 2012, 1 | 5-4 | 44 |
| 486 | Charged particle transverse momentum spectra in pp collisions at ($\sqrt{s} = 0.9$) and 7 TeV. <i>Journal of High Energy Physics</i> , 2011 , 2011, 1 | 5-4 | 44 |
| 485 | Measurement of the ($\overline{t}t$) production cross section in the dilepton channel in pp collisions at (\sqrt{s}) = 8 TeV. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1 | 5-4 | 43 |
| 484 | Measurement of the differential and double-differential Drell-Yan cross sections in proton-proton collisions at (\sqrt{s}) = 7 TeV. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1 | 5-4 | 43 |
| 483 | Search for leptonic decays of W^\pm bosons in pp collisions at ($\sqrt{s} = 7$) TeV. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1 | 5-4 | 43 |
| 482 | Determination of the form factors for the decay $B^0 \rightarrow D^{*+} \ell^- \bar{\nu}_\ell$ and of the CKM matrix element $ V_{cb} $. <i>Physical Review D</i> , 2008 , 77, | 4-9 | 43 |
| 481 | Event activity dependence of (Υ)(nS) production in ($\sqrt{\{s_{NN}\}} = 5.02$ TeV pPb and (\sqrt{s}) = 2.76 TeV pp collisions. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1 | 5-4 | 42 |
| 480 | Study of $B^0 \rightarrow \pi\pi$, $B^\pm \rightarrow \pi\pi$, and $B^\pm \rightarrow K\pi$ decays, and isospin analysis of $B \rightarrow \pi\pi$ decays. <i>Physical Review D</i> , 2007 , 76, | 4-9 | 42 |
| 479 | Measurement of the $B \rightarrow K\pi\pi$ branching fraction. <i>Physical Review D</i> , 2007 , 76, | 4-9 | 42 |
| 478 | Measurement of the hadronic form factor in $D^0 \rightarrow K\pi^+\pi^-$ decays. <i>Physical Review D</i> , 2007 , 76, | 4-9 | 42 |
| 477 | 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> , 2015 , 75, 186 | 4-2 | 41 |
| 476 | Measurement of prompt J/ψ pair production in pp collisions at (\sqrt{s}) = 7 TeV. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1 | 5-4 | 41 |
| 475 | 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> , 2012 , 2012, 1 | 5-4 | 41 |
| 474 | Measurements of branching fractions, polarizations, and direct CP-violation asymmetries in $B \rightarrow \rho K^*$ and $B \rightarrow f_0(980)K^*$ decays. <i>Physical Review Letters</i> , 2006 , 97, 201801 | 7-4 | 41 |
| 473 | Measurement of the inelastic proton-proton cross section at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1 | 5-4 | 41 |
| 472 | 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> , 2018 , 2018, 1 | 5-4 | 40 |
| 471 | Measurement of the inclusive electron spectrum in charmless semileptonic B decays near the kinematic end point and determination of $ V_{ub} $. <i>Physical Review D</i> , 2006 , 73, | 4-9 | 40 |

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|-----|---|-----|----|
| 470 | Vector-tensor and vector-vector decay amplitude analysis of $B_0 \rightarrow \phi K^0$. <i>Physical Review Letters</i> , 2007 , 98, 051801 | 7-4 | 40 |
| 469 | Studies of jet mass in dijet and $W/Z + \text{jet}$ events. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1 | 5-4 | 39 |
| 468 | 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> , 2013 , 2013, 1 | 5-4 | 39 |
| 467 | Measurement of the ZZ production cross section and search for anomalous couplings in 200 final states in pp collisions at ($\sqrt{s}=7$) TeV. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1 | 5-4 | 39 |
| 466 | 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> , 2011 , 2011, 1 | 5-4 | 39 |
| 465 | Observation of Upsilon(4S) decays to $\pi^+\pi^-\text{Upsilon}(1S)$ and $\pi^+\pi^-\text{Upsilon}(2S)$. <i>Physical Review Letters</i> , 2006 , 96, 232001 | 7-4 | 39 |
| 464 | Observation of B_0 meson decay to $a_1^+(1260)\pi^-$. <i>Physical Review Letters</i> , 2006 , 97, 051802 | 7-4 | 39 |
| 463 | Search for $B \rightarrow \eta \pi$. <i>Physical Review D</i> , 2007 , 76, | 4-9 | 39 |
| 462 | Measurement of the pseudoscalar decay constant f_D s using charm-tagged events in e^+e^- collisions at square root $s=10.58$ GeV. <i>Physical Review Letters</i> , 2007 , 98, 141801 | 7-4 | 39 |
| 461 | 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> , 2014 , 2014, 1 | 5-4 | 38 |
| 460 | Search for microscopic black holes in pp collisions at ($\sqrt{s}=8$) TeV. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1 | 5-4 | 38 |
| 459 | Measurement of the lepton charge asymmetry in inclusive W production in pp collisions at ($\sqrt{s}=7 \text{ TeV}$). <i>Journal of High Energy Physics</i> , 2011 , 2011, 1 | 5-4 | 38 |
| 458 | 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> , 2016 , 76, 401 | 4-2 | 38 |
| 457 | 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> , 2015 , 75, 288 | 4-2 | 37 |
| 456 | 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> , 2016 , 76, 469 | 4-2 | 37 |
| 455 | 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> , 2012 , 2012, 1 | 5-4 | 37 |
| 454 | 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> , 2013 , 73, 2494 | 4-2 | 37 |
| 453 | 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> , 2013 , 2013, 1 | 5-4 | 37 |

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|-----|---|-----|----|
| 452 | 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> , 2014 , 74, 1 | 4.2 | 37 |
| 451 | Measurements of Higgs boson properties in the diphoton decay channel in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1 | 5.4 | 37 |
| 450 | Measurement of prompt and nonprompt charmonium suppression in collisions at 5.02. <i>European Physical Journal C</i> , 2018 , 78, 509 | 4.2 | 37 |
| 449 | Measurement of the top-quark mass in ($\overline{\text{t}}\text{t}$) events with dilepton final states in pp collisions at ($\sqrt{s}=7$ TeV). <i>European Physical Journal C</i> , 2012 , 72, 1 | 4.2 | 36 |
| 448 | First measurement of the underlying event activity at the LHC with ($\sqrt{s} = 0.9$) TeV. <i>European Physical Journal C</i> , 2010 , 70, 555-572 | 4.2 | 36 |
| 447 | Measurement of $D^0\bar{D}^0$ mixing using the ratio of lifetimes for the decays $D^0 \rightarrow K^0, K^0_S, K^0_L$. <i>Physical Review D</i> , 2008 , 78, | 4.9 | 36 |
| 446 | Measurement of the $B \rightarrow \pi l \nu$ branching fraction and determination of absolute value of V_{ub} with tagged B mesons. <i>Physical Review Letters</i> , 2006 , 97, 211801 | 7.4 | 36 |
| 445 | Observation of the decay $B^+ \rightarrow K^+ K^- \pi^+$. <i>Physical Review Letters</i> , 2007 , 99, 221801 | 7.4 | 36 |
| 444 | Improved limits on the lepton-flavor violating decays $\tau^- \rightarrow l^+ l^-$. <i>Physical Review Letters</i> , 2007 , 99, 251803 | 7.4 | 36 |
| 443 | Measurement of the double-differential inclusive jet cross section in proton-proton collisions at [Formula: see text]. <i>European Physical Journal C</i> , 2016 , 76, 451 | 4.2 | 36 |
| 442 | Search for disappearing tracks in proton-proton collisions at ($\sqrt{s}=8$) TeV. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1 | 5.4 | 35 |
| 441 | 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> , 2016 , 76, 13 | 4.2 | 35 |
| 440 | 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> , 2013 , 2013, 1 | 5.4 | 35 |
| 439 | 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> , 2017 , 2017, 1 | 5.4 | 35 |
| 438 | Measurement of the ($\text{t}\bar{\text{t}}$) 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> , 2011 , 71, 1 | 4.2 | 35 |
| 437 | Study of the $D_s J^*(2317)^+$ and $D_s J(2460)^+$ mesons in inclusive $c\bar{c}$ production near $\sqrt{s}=10.6$ GeV. <i>Physical Review D</i> , 2006 , 74, | 4.9 | 35 |
| 436 | 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> , 2017 , 2017, 1 | 5.4 | 34 |
| 435 | Search for new physics in same-sign dilepton events in proton-proton collisions at [Formula: see text]. <i>European Physical Journal C</i> , 2016 , 76, 439 | 4.2 | 34 |

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|-----|--|-----|----|
| 434 | Search for microscopic black holes in pp collisions at ($\sqrt{s} = \text{7 TeV}$). <i>Journal of High Energy Physics</i> , 2012 , 2012, 1 | 5-4 | 34 |
| 433 | Search for heavy stable charged particles in pp collisions at ($\sqrt{s} = 7; \text{TeV}$). <i>Journal of High Energy Physics</i> , 2011 , 2011, 1 | 5-4 | 34 |
| 432 | Search for decays of stopped long-lived particles produced in proton-proton collisions at [Formula: see text]. <i>European Physical Journal C</i> , 2015 , 75, 151 | 4-2 | 33 |
| 431 | 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> , 2013 , 2013, 1 | 5-4 | 33 |
| 430 | 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> , 2015 , 2015, 1 | 5-4 | 33 |
| 429 | Search for a light charged Higgs boson decaying to ($\overline{\text{c}}\text{s}$) in pp collisions at ($\sqrt{s}=8$) TeV. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1-37 | 5-4 | 33 |
| 428 | Measurement of decay amplitudes of $B \rightarrow J/\psi K^*$, $B \rightarrow \psi(2S) K^*$, and $B \rightarrow \psi(1K^*)$ with an angular analysis. <i>Physical Review D</i> , 2007 , 76, | 4-9 | 33 |
| 427 | Improved measurements of the branching fractions for $B^0 \rightarrow \pi^+ \pi^-$ and $B^0 \rightarrow K^+ K^-$ and a search for $B^0 \rightarrow K^+ K^0$ <i>Physical Review D</i> , 2007 , 75, | 4-9 | 33 |
| 426 | Search for lepton flavor violating decays $\tau^{(\pm)} \rightarrow l^{(\pm)} \pi^0$, $l^{(\pm)} \eta$, $l^{(\pm)} \eta'$ <i>Physical Review Letters</i> , 2007 , 98, 061803 | 7-4 | 33 |
| 425 | Identification techniques for highly boosted W bosons that decay into hadrons. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1 | 5-4 | 32 |
| 424 | Search for resonances in the dilepton mass distribution in pp collisions at ($\sqrt{s} = 7$) TeV. <i>Journal of High Energy Physics</i> , 2011 , 2011, 1 | 5-4 | 32 |
| 423 | 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> , 2011 , 2011, 1 | 5-4 | 32 |
| 422 | Measurement of the Drell-Yan cross section in pp collisions at ($\sqrt{s} = 7$) TeV. <i>Journal of High Energy Physics</i> , 2011 , 2011, 1 | 5-4 | 32 |
| 421 | Study of $B^0 \rightarrow \pi^+ \pi^-$ and $B^0 \rightarrow \pi^+ \pi^- K^0$ decays at BABAR. <i>Physical Review D</i> , 2008 , 77, | 4-9 | 32 |
| 420 | Measurements of CP-violating asymmetries in the decay $B^0 \rightarrow K^+ K^- K^0$. <i>Physical Review Letters</i> , 2007 , 99, 161802 | 7-4 | 32 |
| 419 | Improved measurement of CP violation in neutral B decays to $c\overline{c}$. <i>Physical Review Letters</i> , 2007 , 99, 171803 | 7-4 | 31 |
| 418 | Measurement of CP violation parameters with a Dalitz plot analysis of $B^{(\pm)} \rightarrow D \pi^+ \pi^- \pi^0 K^{(\pm)}$. <i>Physical Review Letters</i> , 2007 , 99, 251801 | 7-4 | 31 |
| 417 | Improved Measurement of the Cabibbo-Kobayashi-Maskawa angle α using $B^0(B) \rightarrow \rho^+ \rho^-$ decays. <i>Physical Review Letters</i> , 2005 , 95, 041805 | 7-4 | 31 |

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| 4 ¹⁶ | Measurement of the $(\overline{\text{t}}\text{t})$ 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> , 2016 , 2016, 1 | 5.4 | 30 |
| 4 ¹⁵ | Search in leptonic channels for heavy resonances decaying to long-lived neutral particles. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1 | 5.4 | 30 |
| 4 ¹⁴ | Inclusive b-jet production in pp collisions at $(\sqrt{s} = 7\text{TeV})$. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1 | 5.4 | 30 |
| 4 ¹³ | Observation of Z decays to four leptons with the CMS detector at the LHC. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1 | 5.4 | 30 |
| 4 ¹² | 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> , 2012 , 2012, 1 | 5.4 | 30 |
| 4 ¹¹ | 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> , 2012 , 72, 1 | 4.2 | 30 |
| 4 ¹⁰ | Amplitude analysis of the decay $B_c \rightarrow \pi\pi\pi$. <i>Physical Review D</i> , 2005 , 72, | 4.9 | 30 |
| 4 ⁰⁹ | Precision measurement of the Ξ^+ baryon mass. <i>Physical Review D</i> , 2005 , 72, | 4.9 | 30 |
| 4 ⁰⁸ | Measurements of the production cross section and the branching fraction, and constraints on anomalous triple gauge couplings at. <i>European Physical Journal C</i> , 2018 , 78, 165 | 4.2 | 29 |
| 4 ⁰⁷ | Search for supersymmetry in final states with missing transverse energy and 0, 1, 2, or B b-quark jets in 7 TeV pp collisions using the variable β T. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1 | 5.4 | 29 |
| 4 ⁰⁶ | Observation of $Y(1S)$ pair production in proton-proton collisions at $(\sqrt{s}=8)$ TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1 | 5.4 | 29 |
| 4 ⁰⁵ | 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> , 2014 , 74, 3060 | 4.2 | 29 |
| 4 ⁰⁴ | Measurement of differential cross sections for the production of a pair of isolated photons in pp collisions at [Formula: see text]. <i>European Physical Journal C</i> , 2014 , 74, 3129 | 4.2 | 29 |
| 4 ⁰³ | Study of $B \rightarrow D^{(*)} D_s(J)^{(*)}$ decays and measurement of D_s and $D_s J(2460)$ branching fractions. <i>Physical Review D</i> , 2006 , 74, | 4.9 | 29 |
| 4 ⁰² | Search for heavy Majorana neutrinos in $e\bar{e}\pi^+\text{jets}$ and $e\bar{e}\mu^+\text{jets}$ events in proton-proton collisions at $(\sqrt{s}=8)$ TeV. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1 | 5.4 | 28 |
| 4 ⁰¹ | Search for supersymmetry in events with b jets and missing transverse momentum at the LHC. <i>Journal of High Energy Physics</i> , 2011 , 2011, 1 | 5.4 | 28 |
| 4 ⁰⁰ | Search for $D^0\bar{D}^0$ mixing using doubly flavor tagged semileptonic decay modes. <i>Physical Review D</i> , 2007 , 76, | 4.9 | 28 |
| 399 | Measurement of CP-violating asymmetries in $B^0 \rightarrow \pi\pi$ using a time-dependent Dalitz plot analysis. <i>Physical Review D</i> , 2007 , 76, | 4.9 | 28 |

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|-----|---|-----|----|
| 398 | Evidence for the $B^0 \rightarrow \rho\rho K^*0$ and $B^{+-} \rightarrow \rho K^{*+}$ decays and study of the decay dynamics of B meson decays into $\rho\rho$ final states. <i>Physical Review D</i> , 2007 , 76, | 4.9 | 28 |
| 397 | Measurement of the production cross section, the top quark mass, and the strong coupling constant using dilepton events in pp collisions at. <i>European Physical Journal C</i> , 2019 , 79, 368 | 4.2 | 27 |
| 396 | Evidence for exclusive $B \rightarrow W + W$ 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> , 2016 , 2016, 1 | 5.4 | 27 |
| 395 | 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 | 5.4 | 27 |
| 394 | Measurement of (\overline{B}) angular correlations based on secondary vertex reconstruction at ($\sqrt{s} = 7, \text{TeV}$). <i>Journal of High Energy Physics</i> , 2011 , 2011, 1 | 5.4 | 27 |
| 393 | Search for the rare decay $B^0 \rightarrow \tau + \tau^-$ at BABAR. <i>Physical Review Letters</i> , 2006 , 96, 241802 | 7.4 | 27 |
| 392 | Study of $B \rightarrow \rho$ and $B \rightarrow \omega$ decays and determination of $ V_{ub} $. <i>Physical Review D</i> , 2005 , 72, | 4.9 | 27 |
| 391 | Measurements of the decays $B^0 \rightarrow D^0 \rho^0$, $B^0 \rightarrow D^+ \rho^-$, $B^0 \rightarrow D^+ \rho^0$, and $B^0 \rightarrow D^+ \rho^-$. <i>Physical Review D</i> , 2006 , 74, | 4.9 | 27 |
| 390 | Reconstruction of the signal amplitude of the CMS electromagnetic calorimeter. <i>European Physical Journal C</i> , 2006 , 46, 23-35 | 4.2 | 27 |
| 389 | 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> , 2017 , 77, 269 | 4.2 | 26 |
| 388 | 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> , 2013 , 2013, 1 | 5.4 | 26 |
| 387 | 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> , 2017 , 2017, 1 | 5.4 | 26 |
| 386 | 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> , 2015 , 2015, 1 | 5.4 | 26 |
| 385 | Search for physics beyond the standard model in opposite-sign dilepton events in pp collisions at ($\sqrt{s} = 7, \text{TeV}$). <i>Journal of High Energy Physics</i> , 2011 , 2011, 1 | 5.4 | 26 |
| 384 | Measurements of neutral B decay branching fractions to KS^0 final states and the charge asymmetry of $B^0 \rightarrow K^* + \rho$. <i>Physical Review D</i> , 2006 , 73, | 4.9 | 26 |
| 383 | Measurement of the W-boson helicity in top-quark decays from (\overline{t}) production in lepton+jets events in pp collisions at ($\sqrt{s}=7$) TeV. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1 | 5.4 | 25 |
| 382 | 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> , 2017 , 2017, 1 | 5.4 | 25 |
| 381 | 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> , 2015 , 75, 511 | 4.2 | 25 |

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|-----|--|-----|----|
| 380 | 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> , 2012 , 2012, 1 | 5.4 | 25 |
| 379 | Dalitz plot analysis of the decay $B_0(B^0)\rightarrow K^0\pi^0$. <i>Physical Review D</i> , 2008 , 78, | 4.9 | 25 |
| 378 | Measurements of CP-violating asymmetries in $B_0\rightarrow a_1^{+/-}(1260)\pi^{+/-}$ decays. <i>Physical Review Letters</i> , 2007 , 98, 181803 | 7.4 | 25 |
| 377 | Measurement of the direct CP asymmetry in $b\rightarrow s$ gamma Decays. <i>Physical Review Letters</i> , 2004 , 93, 021804 | 4.4 | 25 |
| 376 | Search for heavy resonances decaying to two Higgs bosons in final states containing four b quarks. <i>European Physical Journal C</i> , 2016 , 76, 371 | 4.2 | 25 |
| 375 | Measurement of the weak mixing angle using the forward-backward asymmetry of Drell-Yan events in collisions at 8. <i>European Physical Journal C</i> , 2018 , 78, 701 | 4.2 | 25 |
| 374 | 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> , 2015 , 75, 325 | 4.2 | 24 |
| 373 | Search for production of four top quarks in final states with same-sign or multiple leptons in proton-proton collisions at. <i>European Physical Journal C</i> , 2020 , 80, 75 | 4.2 | 24 |
| 372 | Measurement of inclusive jet production and nuclear modifications in pPb collisions at [Formula: see text]. <i>European Physical Journal C</i> , 2016 , 76, 372 | 4.2 | 24 |
| 371 | 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> , 2013 , 73, 2674 | 4.2 | 24 |
| 370 | Measurement of the $Z/\gamma + b$ -jet cross section in pp collisions at ($\sqrt{s} = 7$) TeV. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1 | 5.4 | 24 |
| 369 | 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 | 5.4 | 24 |
| 368 | Search for the standard model Higgs boson in the $H \rightarrow ZZ \rightarrow 2\mu\mu$ channel in pp collisions at ($\sqrt{s} = 7$) TeV. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1 | 5.4 | 24 |
| 367 | Measurement of the $B \rightarrow \mu\mu$ branching fraction and a search for a second-class current in the $B \rightarrow \mu(958)\mu$ decay. <i>Physical Review D</i> , 2008 , 77, | 4.9 | 24 |
| 366 | Amplitude analysis of the $B^{+/-} \rightarrow \phi K^{*}(892)^{+/-}$ decay. <i>Physical Review Letters</i> , 2007 , 99, 201802 | 7.4 | 24 |
| 365 | Amplitude analysis of the decay $D_0 \rightarrow K^0\pi^0$. <i>Physical Review D</i> , 2007 , 76, | 4.9 | 24 |
| 364 | Performance of the CMS Level-1 trigger in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Journal of Instrumentation</i> , 2020 , 15, P10017-P10017 | 1 | 23 |
| 363 | Search for $W \rightarrow tb$ decays in the lepton + jets final state in pp collisions at ($\sqrt{s} = 8$) TeV. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1 | 5.4 | 23 |

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| 362 | Search for CP violation in neutral D meson Cabibbo-suppressed three-body decays. <i>Physical Review D</i> , 2008 , 78, | 4.9 | 23 |
| 361 | Measurements of branching fraction, polarization, and charge asymmetry of $B(+/-) \rightarrow \rho(+/-)\rho(0)$ and a search for $B(+/-) \rightarrow \rho(+/-)f(0)(980)$. <i>Physical Review Letters</i> , 2006 , 97, 261801 | 7.4 | 23 |
| 360 | Measurement of time-dependent CP-violating asymmetries and constraints on $\sin(2\beta)$ with partial reconstruction of $B \rightarrow D^* \pi$ decays. <i>Physical Review D</i> , 2005 , 71, | 4.9 | 23 |
| 359 | Search for third-generation scalar leptoquarks decaying to a top quark and a lepton at. <i>European Physical Journal C</i> , 2018 , 78, 707 | 4.2 | 23 |
| 358 | Evidence for associated production of a Higgs boson with a top quark pair in final states with electrons, muons, and hadronically decaying τ leptons at $(\sqrt{s}=13)$ TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1 | 5.4 | 23 |
| 357 | 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> , 2017 , 77, 172 | 4.2 | 22 |
| 356 | Search for dark matter produced in association with heavy-flavor quark pairs in proton-proton collisions at. <i>European Physical Journal C</i> , 2017 , 77, 845 | 4.2 | 22 |
| 355 | 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> , 2015 , 2015, 1 | 5.4 | 22 |
| 354 | Measurement of Bose-Einstein correlations in pp collisions at $(\sqrt{s} = 0.9)$ and 7 TeV. <i>Journal of High Energy Physics</i> , 2011 , 2011, 1 | 5.4 | 22 |
| 353 | Branching fraction measurements of $B^{+-} \rightarrow \rho^0 \gamma$, $B^0 \rightarrow \rho^0 \gamma$, and $B^0 \rightarrow \omega \gamma$. <i>Physical Review Letters</i> , 2007 , 98, 151802 | 7.4 | 22 |
| 352 | Measurement of the time-dependent CP-violating asymmetry in $B^0 \rightarrow K_S^0 \pi^0$ decays. <i>Physical Review D</i> , 2005 , 72, | 4.9 | 22 |
| 351 | Measurement of the WZ production cross section in pp collisions at [Formula: see text] and 8 [Formula: see text] and search for anomalous triple gauge couplings at [Formula: see text]. <i>European Physical Journal C</i> , 2017 , 77, 236 | 4.2 | 21 |
| 350 | 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> , 2017 , 77, 294 | 4.2 | 21 |
| 349 | 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> , 2015 , 75, 66 | 4.2 | 21 |
| 348 | 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> , 2016 , 2016, 1 | 5.4 | 21 |
| 347 | 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> , 2016 , 76, 128 | 4.2 | 21 |
| 346 | 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> , 2014 , 2014, 1 | 5.4 | 21 |
| 345 | 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> , 2014 , 74, 2758 | 4.2 | 21 |

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| 344 | Measurement of the $\bar{t}t$ production cross section in the $t\bar{t}$ jets channel in pp collisions at $(\sqrt{s}=7 \text{ TeV})$. <i>European Physical Journal C</i> , 2013 , 73, 1 | 4.2 | 21 |
| 343 | 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> , 2017 , 77, 578 | 4.2 | 21 |
| 342 | 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> , 2017 , 2017, 1 | 5.4 | 21 |
| 341 | Search for a Higgs boson in the decay channel $H \rightarrow ZZ^* \rightarrow q\bar{q}$ in pp collisions at $(\sqrt{s}=7 \text{ TeV})$. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1 | 5.4 | 21 |
| 340 | Inclusive b-hadron production cross section with muons in pp collisions at $(\sqrt{s}=7 \text{ TeV})$. <i>Journal of High Energy Physics</i> , 2011 , 2011, 1 | 5.4 | 21 |
| 339 | Search for large extra dimensions in the diphoton final state at the Large Hadron Collider. <i>Journal of High Energy Physics</i> , 2011 , 2011, 1 | 5.4 | 21 |
| 338 | The CMS barrel calorimeter response to particle beams from 2 to 350 GeV/c. <i>European Physical Journal C</i> , 2009 , 60, 359-373 | 4.2 | 21 |
| 337 | Observation of $B_{(0)} \rightarrow K_{(0)} K_{(0)}$ and Search for $B_{(0)} \rightarrow K_{(0)} K_{(0)}$. <i>Physical Review Letters</i> , 2008 , 100, 081801 | 7.4 | 21 |
| 336 | Production and decay of Ω_{cc} . <i>Physical Review Letters</i> , 2007 , 99, 062001 | 7.4 | 21 |
| 335 | Observation of CP violation in $B \rightarrow \eta' K$ decays. <i>Physical Review Letters</i> , 2007 , 98, 031801 | 7.4 | 21 |
| 334 | Measurement of transverse momentum relative to dijet systems in PbPb and pp collisions at $(\sqrt{s_{NN}}=2.76 \text{ TeV})$. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1 | 5.4 | 21 |
| 333 | Measurement of $t\bar{t}$ production with additional jet activity, including $t\bar{t}q$ quark jets, in the dilepton decay channel using pp collisions at $(\sqrt{s}=7 \text{ TeV})$. <i>European Physical Journal C</i> , 2016 , 76, 379 | 4.2 | 20 |
| 332 | 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> , 2018 , 78, 140 | 4.2 | 20 |
| 331 | Search for a heavy pseudoscalar boson decaying to a Z and a Higgs boson at. <i>European Physical Journal C</i> , 2019 , 79, 564 | 4.2 | 20 |
| 330 | Response of microchannel plates to single particles and to electromagnetic showers. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2015 , 797, 216-221 | 1.2 | 20 |
| 329 | 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> , 2012 , 2012, 1 | 5.4 | 20 |
| 328 | Search for heavy resonances that decay into a vector boson and a Higgs boson in hadronic final states at. <i>European Physical Journal C</i> , 2017 , 77, 636 | 4.2 | 20 |
| 327 | Searches for the decays $B_0 \rightarrow \ell^+ \ell^-$ and $B^+ \rightarrow \ell^+ \ell^- e$, using hadronic tag reconstruction. <i>Physical Review D</i> , 2008 , 77, | 4.9 | 20 |

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|-----|--|-----|----|
| 326 | Measurement of the branching fractions of exclusive $B \rightarrow D^{(*)}(\pi)l\bar{\nu}_l$ decays in events with a fully reconstructed B meson. <i>Physical Review Letters</i> , 2008 , 100, 151802 | 7.4 | 20 |
| 325 | Determinations of from inclusive semileptonic decays with reduced model dependence. <i>Physical Review Letters</i> , 2006 , 96, 221801 | 7.4 | 20 |
| 324 | Measurement of branching fractions and CP-violating charge asymmetries for B-meson decays to $D^{(*)}D\bar{1}^{(*)}$, and implications for the Cabibbo-Kobayashi-Maskawa angle β <i>Physical Review D</i> , 2006 , 73, | 4.9 | 20 |
| 323 | Measurement of the branching fraction and time-dependent CP asymmetry in the decay $B^0 \rightarrow D^{*+}D^{*0}$. <i>Physical Review D</i> , 2006 , 74, | 4.9 | 20 |
| 322 | Measurements of the $B \rightarrow D^*$ form factors using the decay $B \rightarrow D^* + e \bar{\nu}_e$. <i>Physical Review D</i> , 2006 , 74, | 4.9 | 20 |
| 321 | Determination of $ V_{ub} $ from measurements of the electron and neutrino momenta in inclusive semileptonic B decays. <i>Physical Review Letters</i> , 2005 , 95, 111801 | 7.4 | 20 |
| 320 | Search for anomalous single top quark production in association with a photon in pp collisions at ($\sqrt{s}=8$) TeV. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1 | 5.4 | 20 |
| 319 | 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> , 2017 , 77, 15 | 4.2 | 19 |
| 318 | Measurement of the W boson helicity in events with a single reconstructed top quark in pp collisions at ($\sqrt{s}=8$) TeV. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1 | 5.4 | 19 |
| 317 | Search for massive WH resonances decaying into the $[Formula: see text]$ final state at $[Formula: see text]$ $[Formula: see text]$. <i>European Physical Journal C</i> , 2016 , 76, 237 | 4.2 | 19 |
| 316 | Measurement of exclusive photoproduction from protons in Pb collisions at. <i>European Physical Journal C</i> , 2019 , 79, 277 | 4.2 | 19 |
| 315 | Search for heavy resonances decaying to tau lepton pairs in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1 | 5.4 | 19 |
| 314 | Search for massive resonances decaying into WW, WZ or ZZ bosons in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1 | 5.4 | 19 |
| 313 | Search for third-generation scalar leptoquarks in the $t\bar{t}$ channel in proton-proton collisions at ($\sqrt{s}=8$) TeV. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1 | 5.4 | 19 |
| 312 | 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> , 2011 , 2011, 1 | 5.4 | 19 |
| 311 | Measurement of CP-violating asymmetries in $B^0 \rightarrow D^{*+}D^{*-}$. <i>Physical Review Letters</i> , 2007 , 99, 071801 | 7.4 | 19 |
| 310 | Search for $b \rightarrow u$ transitions in $B \rightarrow D^0 K$ and $B \rightarrow D^{*0} K$ <i>Physical Review D</i> , 2005 , 72, | 4.9 | 19 |
| 309 | Measurement of differential cross sections for boson production in association with jets in proton-proton collisions at. <i>European Physical Journal C</i> , 2018 , 78, 965 | 4.2 | 19 |

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| 308 | 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> , 2018 , 78, 789 | 4.2 | 19 |
| 307 | Search for vector-like quarks in events with two oppositely charged leptons and jets in proton-proton collisions at. <i>European Physical Journal C</i> , 2019 , 79, 364 | 4.2 | 18 |
| 306 | 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> , 2015 , 2015, 1 | 5.4 | 18 |
| 305 | 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> , 2016 , 2016, 1 | 5.4 | 18 |
| 304 | . <i>Journal of High Energy Physics</i> , 2014 , 2014, 1 | 5.4 | 18 |
| 303 | 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> , 2017 , 2017, 1 | 5.4 | 18 |
| 302 | Search for heavy neutrinos or third-generation leptoquarks in final states with two hadronically decaying leptons and two jets in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1 | 5.4 | 18 |
| 301 | Search for neutral MSSM Higgs bosons decaying into a pair of bottom quarks. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1 | 5.4 | 18 |
| 300 | Measurement of branching fractions and charge asymmetries in B decays to an eta meson and a K* meson. <i>Physical Review Letters</i> , 2006 , 97, 201802 | 7.4 | 18 |
| 299 | Dalitz plot analysis of $D^0 \rightarrow K^0 K^+ K^-$. <i>Physical Review D</i> , 2005 , 72, | 4.9 | 18 |
| 298 | Measurement of time-dependent CP asymmetries in $B^0 \rightarrow D^{(*)} \pi^0$ and $B^0 \rightarrow D \pi^0$ decays. <i>Physical Review D</i> , 2006 , 73, | 4.9 | 18 |
| 297 | Search for ($\overline{\text{t}}\text{H}$) production in the (H to $\overline{\text{b}}\text{b}$) decay channel with leptonic ($\overline{\text{t}}\text{t}$) decays in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1 | 5.4 | 17 |
| 296 | Search for new physics in events with a leptonically decaying Z boson and a large transverse momentum imbalance in proton-proton collisions at $\sqrt{s}=13$. <i>European Physical Journal C</i> , 2018 , 78, 291 | 4.2 | 17 |
| 295 | Measurement of the inclusive jet cross section in pp collisions at ($\sqrt{s}=2.76$, text {TeV}). <i>European Physical Journal C</i> , 2016 , 76, 1 | 4.2 | 17 |
| 294 | Search for ($\overline{\text{t}}\text{t}$) 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> , 2017 , 2017, 1 | 5.4 | 17 |
| 293 | Searches for pair production of third-generation squarks in [Formula: see text][Formula: see text] pp collisions. <i>European Physical Journal C</i> , 2017 , 77, 327 | 4.2 | 17 |
| 292 | 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> , 2015 , 2015, 1 | 5.4 | 17 |
| 291 | Search for stopped long-lived particles produced in pp collisions at ($\sqrt{s}=\text{7 TeV}$). <i>Journal of High Energy Physics</i> , 2012 , 2012, 1 | 5.4 | 17 |

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|-----|--|-----|----|
| 290 | Ratios of dijet production cross sections as a function of the absolute difference in rapidity between jets in proton-proton collisions at ($\sqrt{s} = 7 \text{ TeV}$). <i>European Physical Journal C</i> , 2012 , 72, 1 | 4.2 | 17 |
| 289 | Measurement of the inclusive Z cross section via decays to tau pairs in pp collisions at ($\sqrt{s} = 7 \text{ TeV}$). <i>Journal of High Energy Physics</i> , 2011 , 2011, 1 | 5.4 | 17 |
| 288 | Measurement of the spin of the omega(-) hyperon. <i>Physical Review Letters</i> , 2006 , 97, 112001 | 7.4 | 17 |
| 287 | Search for D0-D0 mixing and branching-ratio measurement in the decay $D^0 \rightarrow K^+ \pi^- \pi^0$. <i>Physical Review Letters</i> , 2006 , 97, 221803 | 7.4 | 17 |
| 286 | Search for the rare decay $B \rightarrow \pi^+ l^-$. <i>Physical Review Letters</i> , 2007 , 99, 051801 | 7.4 | 17 |
| 285 | Measurement of $\cos^2\beta$ in $B_{(0)} \rightarrow D_{(0)} h_{(0)}$ decays with a time-dependent Dalitz plot analysis of $D \rightarrow K_{(s)} \pi_{(0)} \pi_{(0)}$. <i>Physical Review Letters</i> , 2007 , 99, 231802 | 7.4 | 17 |
| 284 | Monte Carlo simulation of the SABRE PoP background. <i>Astroparticle Physics</i> , 2019 , 106, 1-9 | 2.4 | 17 |
| 283 | Measurement of double-differential cross sections for top quark pair production in pp collisions at [Formula: see text] and impact on parton distribution functions. <i>European Physical Journal C</i> , 2017 , 77, 459 | 4.2 | 16 |
| 282 | Searches for physics beyond the standard model with the variable in hadronic final states with and without disappearing tracks in proton-proton collisions at. <i>European Physical Journal C</i> , 2020 , 80, 3 | 4.2 | 16 |
| 281 | 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> , 2016 , 2016, 1 | 5.4 | 16 |
| 280 | Search for a very light NMSSM Higgs boson produced in decays of the 125 GeV scalar boson and decaying into leptons in pp collisions at ($\sqrt{s}=8$) TeV. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1 | 5.4 | 16 |
| 279 | 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> , 2014 , 74, 2973 | 4.2 | 16 |
| 278 | Search for exotic resonances decaying into WZ/ZZ in pp collisions at ($\sqrt{s}=7$) TeV. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1 | 5.4 | 16 |
| 277 | 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> , 2015 , 2015, 1 | 5.4 | 16 |
| 276 | 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> , 2017 , 2017, 1 | 5.4 | 16 |
| 275 | Search for dark matter in events with energetic, hadronically decaying top quarks and missing transverse momentum at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1 | 5.4 | 16 |
| 274 | Measurements of the associated production of a Z boson and b jets in pp collisions at. <i>European Physical Journal C</i> , 2017 , 77, 751 | 4.2 | 15 |
| 273 | 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> , 2016 , 2016, 1 | 5.4 | 15 |

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|-----|---|-----|----|
| 272 | 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> , 2014 , 2014, 1 | 5.4 | 15 |
| 271 | 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> , 2013 , 2013, 1 | 5.4 | 15 |
| 270 | 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> , 2013 , 73, 2404 | 4.2 | 15 |
| 269 | 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> , 2017 , 2017, 1 | 5.4 | 15 |
| 268 | 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> , 2014 , 2014, 1 | 5.4 | 15 |
| 267 | Measurement of the decay $B(-) \rightarrow D^{(*)}e(-)\nu_{\text{e}}$. <i>Physical Review Letters</i> , 2008 , 100, 231803 | 7.4 | 15 |
| 266 | Measurements of partial branching fractions for $B \rightarrow Xu\nu$ and determination of $ V_{ub} $. <i>Physical Review Letters</i> , 2008 , 100, 171802 | 7.4 | 15 |
| 265 | Observation of $B^{++} \rightarrow a_1(1260)K_0$ and $B_0 \rightarrow a_1(1260)K^+$. <i>Physical Review Letters</i> , 2008 , 100, 051803 | 7.4 | 15 |
| 264 | Observation of tree-level B decays with ss production from gluon radiation. <i>Physical Review Letters</i> , 2008 , 100, 171803 | 7.4 | 15 |
| 263 | Search for lepton flavor violating decays $\tau_{+/-} \rightarrow l_{+/-}\omega$. <i>Physical Review Letters</i> , 2008 , 100, 071802 | 7.4 | 15 |
| 262 | Inclusive \bar{B}^+ production in e^+e^- annihilations at $\sqrt{s}=10.54$ GeV and in $\Upsilon(4S)$ decays. <i>Physical Review D</i> , 2007 , 75, | 4.9 | 15 |
| 261 | Observation of B Meson decays to $b_1\pi$ and b_1K . <i>Physical Review Letters</i> , 2007 , 99, 241803 | 7.4 | 15 |
| 260 | Measurement of $B \rightarrow D^{(*)}0K^{(*)}0$ branching fractions. <i>Physical Review D</i> , 2006 , 74, | 4.9 | 15 |
| 259 | Search for high-mass resonances in final states with a lepton and missing transverse momentum at $(\sqrt{s}=13)$ TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1 | 5.4 | 15 |
| 258 | Measurement of the jet mass in highly boosted [Formula: see text] events from pp collisions at [Formula: see text][Formula: see text]. <i>European Physical Journal C</i> , 2017 , 77, 467 | 4.2 | 14 |
| 257 | 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> , 2016 , 76, 460 | 4.2 | 14 |
| 256 | 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> , 2016 , 2016, 1 | 5.4 | 14 |
| 255 | Measurement of the (Λ_{b}^0) lifetime in pp collisions at $(\sqrt{s}=7)$ TeV. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1 | 5.4 | 14 |

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| 254 | Measurement of the $(\overline{\text{t}})$ production cross section in the all-jet final state in pp collisions at $(\sqrt{s}=7)$ TeV. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1 | 5-4 | 14 |
| 253 | Measurement of the $(\overline{\text{t}})$ 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> , 2017 , 2017, 1 | 5-4 | 14 |
| 252 | Search for decays of B0 mesons into e^+e^- and $e\mu$ final states. <i>Physical Review D</i> , 2008 , 77, | 4-9 | 14 |
| 251 | Branching fraction and CP-violation charge asymmetry measurements for B-meson decays to \overline{K}^0 , \overline{K}^* , \overline{K}^0 , \overline{K}^* , and \overline{K}^0 . <i>Physical Review D</i> , 2007 , 76, | 4-9 | 14 |
| 250 | Measurement of the B^0 lifetime and the B^0B^0 oscillation frequency using partially reconstructed $B^0 \rightarrow D^* + \pi^0$ decays. <i>Physical Review D</i> , 2006 , 73, | 4-9 | 14 |
| 249 | Search for $B^+ \rightarrow \tau^+ \nu$ and $B^0 \rightarrow \tau^0 \nu$ decays. <i>Physical Review D</i> , 2006 , 74, | 4-9 | 14 |
| 248 | B meson decays to \overline{K}^* , \overline{K}^0 , and \overline{K}^0 . <i>Physical Review D</i> , 2006 , 74, | 4-9 | 14 |
| 247 | 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> , 2016 , 2016, 1 | 5-4 | 14 |
| 246 | Measurement of the ratio of the production cross sections times branching fractions of $B^0 \rightarrow J/\psi \pi^0$ and $B^0 \rightarrow J/\psi \pi^+$ and $(\text{mathcal{B}})\left(\text{mathcal{B}}_{\text{c}}^{\text{pm}}\right) \rightarrow \text{mathcal{J}}/\psi \left\{\pi^{\text{pm}}\right\} \left\{\pi^{\text{mp}}\right\} / \text{mathcal{B}}\left(\text{mathcal{B}}_{\text{c}}^{\text{pm}}\right) \rightarrow \text{mathcal{J}}/\psi \left\{\pi^{\text{pm}}\right\}$ in pp collisions at $(\sqrt{s}=7)$ TeV. <i>Journal of High Energy Physics</i> , | 5-4 | 13 |
| 245 | Forward-backward asymmetry of Drell-Yan lepton pairs in pp collisions at [Formula: see text][Formula: see text]. <i>European Physical Journal C</i> , 2016 , 76, 325 | 4-2 | 13 |
| 244 | Measurement of exclusive π^0 photoproduction in ultraperipheral pPb collisions at. <i>European Physical Journal C</i> , 2019 , 79, 702 | 4-2 | 13 |
| 243 | Measurement of the top quark mass in the all-jets final state at and combination with the lepton+jets channel. <i>European Physical Journal C</i> , 2019 , 79, 313 | 4-2 | 13 |
| 242 | Probing color coherence effects in pp collisions at [Formula: see text]. <i>European Physical Journal C</i> , 2014 , 74, 2901 | 4-2 | 13 |
| 241 | Search for a fermiophobic Higgs boson in pp collisions at $(\sqrt{s} = 7)$ TeV. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1 | 5-4 | 13 |
| 240 | 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> , 2012 , 2012, 1 | 5-4 | 13 |
| 239 | Measurement of the mass difference between top and antitop quarks. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1 | 5-4 | 13 |
| 238 | Measurement of the spin of the $\Upsilon(1530)$ resonance. <i>Physical Review D</i> , 2008 , 78, | 4-9 | 13 |
| 237 | Search for $B^0 \rightarrow \tau^+(K^+)$ decays with large $K^+\pi^+$ invariant mass. <i>Physical Review D</i> , 2007 , 76, | 4-9 | 13 |

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|-----|---|-----|----|
| 236 | Measurement of branching fractions and resonance contributions for $B^0 \rightarrow D^0 K^+ \pi^-$ and search for $B^0 \rightarrow D^0 K^+ \pi^-$ decays. <i>Physical Review Letters</i> , 2006 , 96, 011803 | 7.4 | 13 |
| 235 | Study of the $B \rightarrow 3h + \bar{h}$ decay. <i>Physical Review D</i> , 2005 , 72, | 4.9 | 13 |
| 234 | Measurement of $(\sigma_{\text{t}}/\sigma_{\text{p}})$ normalised multi-differential cross sections in (pp) collisions at $(\sqrt{s}=13, \text{TeV})$, and simultaneous determination of the strong coupling strength, top quark pole mass, and parton distribution functions. <i>European Physical Journal C</i> , 2020 , 80, 1 | 4.2 | 13 |
| 233 | Decomposing transverse momentum balance contributions for quenched jets in PbPb collisions at $(\sqrt{s_{\text{NN}}}=2.76)$ TeV. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1 | 5.4 | 13 |
| 232 | Search for $(\overline{\text{t}}\text{tH})$ production in the all-jet final state in proton-proton collisions at $(\sqrt{s}=13)$ TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1 | 5.4 | 13 |
| 231 | Measurement of the top quark mass with lepton+jets final states using collisions at. <i>European Physical Journal C</i> , 2018 , 78, 891 | 4.2 | 13 |
| 230 | 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> , 2019 , 79, 280 | 4.2 | 12 |
| 229 | Search for direct top squark pair production in events with one lepton, jets, and missing transverse momentum at 13 TeV with the CMS experiment. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1 | 5.4 | 12 |
| 228 | 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> , 2013 , 2013, 1 | 5.4 | 12 |
| 227 | 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> , 2017 , 2017, 1 | 5.4 | 12 |
| 226 | Search for quark compositeness in dijet angular distributions from pp collisions at $(\sqrt{s}=7)$ TeV. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1 | 5.4 | 12 |
| 225 | Search for third-generation leptoquarks and scalar bottom quarks in pp collisions at $(\sqrt{s}=7; \text{TeV})$. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1 | 5.4 | 12 |
| 224 | Search for light resonances decaying into pairs of muons as a signal of new physics. <i>Journal of High Energy Physics</i> , 2011 , 2011, 1 | 5.4 | 12 |
| 223 | Evidence for charged B meson decays to $a_1^{+-}(1260)\pi^0$ and $a_1(0)(1260)\pi^{+-}$. <i>Physical Review Letters</i> , 2007 , 99, 261801 | 7.4 | 12 |
| 222 | Search for the Decay $B^{+-} \rightarrow K^+ \tau^+ \mu^-$. <i>Physical Review Letters</i> , 2007 , 99, 201801 | 7.4 | 12 |
| 221 | Measurement of CP observables for the decays $B^{\pm} \rightarrow DCP^0 K^{\pm}$. <i>Physical Review D</i> , 2005 , 72, | 4.9 | 12 |
| 220 | Study of the decay $B^0 \rightarrow D^+ \pi^-$. <i>Physical Review D</i> , 2006 , 74, | 4.9 | 12 |
| 219 | Searches for B^0 decays to K^0, \bar{K}^0, η , and η' . <i>Physical Review D</i> , 2006 , 74, | 4.9 | 12 |

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|-----|--|-----|----|
| 218 | Branching fraction limits for B0 decays to $\mu\mu$ and D . <i>Physical Review D</i> , 2006 , 73, | 4.9 | 12 |
| 217 | Search for the decay $B^+ \rightarrow \mu\mu$. <i>Physical Review D</i> , 2006 , 73, | 4.9 | 12 |
| 216 | Search for the decay $B^0 \rightarrow a_1\mu\mu$. <i>Physical Review D</i> , 2006 , 74, | 4.9 | 12 |
| 215 | Measurement of CP observables for the decays $B_{\mu}^{\pm} \rightarrow DCP0K_{\mu}^{\pm}$. <i>Physical Review D</i> , 2006 , 73, | 4.9 | 12 |
| 214 | Studies of η and mesons including the observation of the decay in proton-proton collisions at. <i>European Physical Journal C</i> , 2018 , 78, 939 | 4.2 | 12 |
| 213 | 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> , 2018 , 78, 1 | 4.2 | 12 |
| 212 | 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> , 2017 , 2017, 1 | 5.4 | 11 |
| 211 | Measurement of associated Z + charm production in proton-proton collisions at. <i>European Physical Journal C</i> , 2018 , 78, 287 | 4.2 | 11 |
| 210 | Phenomenological MSSM interpretation of CMS searches in pp collisions at $(\sqrt{s} = 7)$ and 8 TeV. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1 | 5.4 | 11 |
| 209 | Measurement of jet multiplicity distributions in $[Z \rightarrow \mu\mu]$ production in pp collisions at $(\sqrt{s} = 13)$ TeV. <i>European Physical Journal C</i> , 2014 , 74, 3014 | 4.2 | 11 |
| 208 | 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> , 2017 , 2017, 1 | 5.4 | 11 |
| 207 | Search for new physics with dijet angular distributions in proton-proton collisions at $(\sqrt{s} = 13)$ TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1 | 5.4 | 11 |
| 206 | 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> , 2015 , 2015, 1 | 5.4 | 11 |
| 205 | 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> , 2012 , 2012, 1 | 5.4 | 11 |
| 204 | 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> , 2012 , 72, 1 | 4.2 | 11 |
| 203 | Search for the standard model Higgs boson in the $H \rightarrow ZZ \rightarrow \mu\mu\mu\mu$ decay channel in pp collisions at $(\sqrt{s} = 7)$ TeV. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1 | 5.4 | 11 |
| 202 | Measurements of the branching fractions of $B^0 \rightarrow K^*0K + K_{\mu}^0\mu$, $B^0 \rightarrow K^*0\mu$, and $B^0 \rightarrow K^*0K + \mu$. <i>Physical Review D</i> , 2007 , 76, | 4.9 | 11 |
| 201 | Measurement of the $B_{\mu}^{\pm} \rightarrow \mu\mu$ branching fraction and direct CP asymmetry. <i>Physical Review D</i> , 2007 , 75, | 4.9 | 11 |

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| 200 | Branching fraction and charge asymmetry measurements in $B \rightarrow J/\psi$ decays. <i>Physical Review D</i> , 2007 , 76, | 4.9 | 11 |
| 199 | Evidence for $B(0) \rightarrow \rho(0)\rho(0)$ decays and implications for the Cabibbo-Kobayashi-Maskawa angle α . <i>Physical Review Letters</i> , 2007 , 98, 111801 | 7.4 | 11 |
| 198 | Measurement of the branching ratios $(D_{s^*}^{*+} \rightarrow D_{s^*}^+ D^0)/(D_{s^*}^{*+} \rightarrow D_{s^*}^+ D^+)$ and $(D^{*0} \rightarrow D^0 D^0)/(D^{*0} \rightarrow D^0 D^+)$ <i>Physical Review D</i> , 2005 , 72, | 4.9 | 11 |
| 197 | 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 | 5.4 | 11 |
| 196 | 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 | 11 |
| 195 | Search for Z resonances using leptonic and hadronic final states in proton-proton collisions at $(\sqrt{s}=13)$ TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1 | 5.4 | 11 |
| 194 | Measurements of the pp \rightarrow WZ inclusive and differential production cross sections and constraints on charged anomalous triple gauge couplings at $(\sqrt{s}) = 13$ TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1 | 5.4 | 10 |
| 193 | A multi-dimensional search for new heavy resonances decaying to boosted γ, γ , or boson pairs in the dijet final state at 13 TeV. <i>European Physical Journal C</i> , 2020 , 80, 237 | 4.2 | 10 |
| 192 | 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> , 2017 , 2017, 1 | 5.4 | 10 |
| 191 | Search for excited leptons in proton-proton collisions at $(\sqrt{s}=8)$ TeV. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1 | 5.4 | 10 |
| 190 | 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> , 2013 , 2013, 1 | 5.4 | 10 |
| 189 | Search for physics beyond the standard model in events with leptons, jets, and large transverse momentum imbalance in pp collisions at $\sqrt{s} = 7$ TeV. <i>European Physical Journal C</i> , 2013 , 73, 2493 | 4.2 | 10 |
| 188 | Measurements of jet charge with dijet events in pp collisions at $(\sqrt{s}=8)$ TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1 | 5.4 | 10 |
| 187 | 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> , 2017 , 2017, 1 | 5.4 | 10 |
| 186 | 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> , 2012 , 2012, 1 | 5.4 | 10 |
| 185 | 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> , 2011 , 2011, 1 | 5.4 | 10 |
| 184 | Radiation hardness qualification of PbWO ₄ scintillation crystals for the CMS Electromagnetic Calorimeter. <i>Journal of Instrumentation</i> , 2010 , 5, P03010-P03010 | 1 | 10 |
| 183 | Constraints on the CKM angle γ in $B^0 \rightarrow D^+ D^+ K^0$ and $B^0 \rightarrow D^0 K^+ K^0$ from a Dalitz analysis of D^0 and $D^+ D^0$ decays to KS^0 . <i>Physical Review D</i> , 2009 , 79, | 4.9 | 10 |

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| 182 | Search for neutral B-meson decays to $a_0 \pi^0 K^0$, π^0 , and π^0 . <i>Physical Review D</i> , 2007 , 75, | 4.9 | 10 |
| 181 | Measurement of CP asymmetry in $B^0 \rightarrow K_S^0 \pi^0 \pi^0$ decays. <i>Physical Review D</i> , 2007 , 76, | 4.9 | 10 |
| 180 | Evidence for the decay $B^0 \rightarrow K^* \pi^0$. <i>Physical Review D</i> , 2005 , 71, | 4.9 | 10 |
| 179 | Measurement of the $D^+ \rightarrow \pi^0$ and $D^+ \rightarrow K^0$ branching fractions. <i>Physical Review D</i> , 2006 , 74, | 4.9 | 10 |
| 178 | Branching fraction measurements of charged B decays to $K^* K^0$, $K^* \pi^0$, $K^* K^+$ and $K^* \pi^+$ final states. <i>Physical Review D</i> , 2006 , 74, | 4.9 | 10 |
| 177 | Measurements of the branching fraction and time-dependent CP asymmetries of $B^0 \rightarrow J/\psi$ decays. <i>Physical Review D</i> , 2006 , 74, | 4.9 | 10 |
| 176 | Measurements of CP-violating asymmetries and branching fractions in B decays to K^0 and π^0 . <i>Physical Review D</i> , 2006 , 74, | 4.9 | 10 |
| 175 | Measurement of branching fractions in radiative B decays to K^0 and search for B decays to $\pi^0 K^0$. <i>Physical Review D</i> , 2006 , 74, | 4.9 | 10 |
| 174 | Search for the charmed pentaquark candidate $\Theta(3100)^0$ in e^+e^- annihilations at $\sqrt{s}=10.58$ GeV. <i>Physical Review D</i> , 2006 , 73, | 4.9 | 10 |
| 173 | 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> , 2016 , 2016, 1 | 5.4 | 10 |
| 172 | Measurements of differential cross sections of top quark pair production as a function of kinematic event variables in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1 | 5.4 | 10 |
| 171 | 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> , 2016 , 2016, 1 | 5.4 | 9 |
| 170 | Azimuthal decorrelation of jets widely separated in rapidity in pp collisions at ($\sqrt{s}=7$) TeV. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1 | 5.4 | 9 |
| 169 | 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> , 2017 , 2017, 1 | 5.4 | 9 |
| 168 | Measurement of electroweak-induced production of W 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> , 2017 , 2017, 1 | 5.4 | 9 |
| 167 | Measurement of the CP-violating asymmetries in $B^0 \rightarrow K_S^0 \pi^0$ and of the branching fraction $B^0 \rightarrow K^0 \pi^0$. <i>Physical Review D</i> , 2008 , 77, | 4.9 | 9 |
| 166 | Measurement of the CP asymmetry in $b \rightarrow s \gamma$ using a sum of exclusive final states. <i>Physical Review Letters</i> , 2008 , 101, 171804 | 7.4 | 9 |
| 165 | Search for the decay $B^+ \rightarrow K^* \pi^0(892) K^+$. <i>Physical Review D</i> , 2007 , 76, | 4.9 | 9 |

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| 164 | Measurement of the relative branching fractions of $B^- \rightarrow D/D^*/D^{**} \ell^-$ decays in events with a fully reconstructed B meson. <i>Physical Review D</i> , 2007 , 76, | 4.9 | 9 |
| 163 | Branching fraction measurement of $B^0 \rightarrow D^{(*)+} \ell^-$ and $B^- \rightarrow D^{(*)0} \ell^-$ and isospin analysis of $B^- \rightarrow D^{(*)-}$ decays. <i>Physical Review D</i> , 2007 , 75, | 4.9 | 9 |
| 162 | Study of inclusive B^+ and B^0 decays to flavor-tagged D, Ds, and \bar{B}^+ . <i>Physical Review D</i> , 2007 , 75, | 4.9 | 9 |
| 161 | Observation of decays $B^0 \rightarrow D_s^{(*)+} \pi^-$ and $B^0 \rightarrow D_s^{(*)-} K^+$. <i>Physical Review Letters</i> , 2007 , 98, 081801 | 7.4 | 9 |
| 160 | Search for the decay $B \rightarrow 4\pi(\pi^0)$ <i>Physical Review D</i> , 2005 , 72, | 4.9 | 9 |
| 159 | Measurement of time-dependent CP asymmetries and the CP-odd fraction in the decay $B^0 \rightarrow D^{*+} D^{*-}$. <i>Physical Review Letters</i> , 2005 , 95, 151804 | 7.4 | 9 |
| 158 | Production and decay of $\chi(c)0$ at BABAR. <i>Physical Review Letters</i> , 2005 , 95, 142003 | 7.4 | 9 |
| 157 | Search for lepton flavour violating decays of heavy resonances and quantum black holes to an [Formula: see text] pair in proton-proton collisions at [Formula: see text]. <i>European Physical Journal C</i> , 2016 , 76, 317 | 4.2 | 9 |
| 156 | Search for black holes and sphalerons in high-multiplicity final states in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1 | 5.4 | 9 |
| 155 | Measurement of charged particle spectra in minimum-bias events from proton-proton collisions at. <i>European Physical Journal C</i> , 2018 , 78, 697 | 4.2 | 9 |
| 154 | Measurement of top quark pair production in association with a Z boson in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1 | 5.4 | 8 |
| 153 | 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> , 2016 , 2016, 1 | 5.4 | 8 |
| 152 | Search for dark matter produced in association with a single top quark or a top quark pair in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1 | 5.4 | 8 |
| 151 | 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> , 2017 , 2017, 1 | 5.4 | 8 |
| 150 | Measurement of the top quark mass using single top quark events in proton-proton collisions at [Formula: see text] TeV. <i>European Physical Journal C</i> , 2017 , 77, 354 | 4.2 | 8 |
| 149 | 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> , 2017 , 77, 746 | 4.2 | 8 |
| 148 | Measurement of the absolute branching fraction of $D^0 \rightarrow K \pi^+$. <i>Physical Review Letters</i> , 2008 , 100, 051802 | 7.4 | 8 |
| 147 | Search for the reactions $e^+e^- \rightarrow \mu^+\mu^-$ and $e^+e^- \rightarrow e^+\mu^-$ <i>Physical Review D</i> , 2007 , 75, | 4.9 | 8 |

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| 146 | High voltage system for the CMS electromagnetic calorimeter. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2007 , 582, 462-468 | 1.2 | 8 |
| 145 | Observation of $e^{+}e^{-}$ annihilation into the $C = +1$ hadronic final states $\rho(0)\rho(0)$ and $\text{phirho}(0)$. <i>Physical Review Letters</i> , 2006 , 97, 112002 | 7.4 | 8 |
| 144 | Measurement of the absolute branching fractions $B \rightarrow D^{\pm} D^{*\mp}$ with a missing mass method. <i>Physical Review D</i> , 2006 , 74, | 4.9 | 8 |
| 143 | Measurement of the Time-Dependent CP Asymmetry in $B_{s;0} \rightarrow D_{CP};{(*)}h_{s;0}$ Decays. <i>Physical Review Letters</i> , 2007 , 99, 081801 | 7.4 | 8 |
| 142 | Study of $b \rightarrow c$ interference in the decay $B \rightarrow [K^{\pm}] DK^{*}$ <i>Physical Review D</i> , 2005 , 72, | 4.9 | 8 |
| 141 | Search for $B \rightarrow J/\psi D$ decays. <i>Physical Review D</i> , 2005 , 71, | 4.9 | 8 |
| 140 | Measurement of the ratio $B(B^{+} \rightarrow X e)/B(B^0 \rightarrow X e)$ <i>Physical Review D</i> , 2006 , 74, | 4.9 | 8 |
| 139 | Observation of the exclusive reaction $e^{+}e^{-} \rightarrow \tau^{+}\tau^{-}$ at $s=10.58$ GeV. <i>Physical Review D</i> , 2006 , 74, | 4.9 | 8 |
| 138 | Evidence for $B^{+} \rightarrow K^0 K^{+}$ and $B^0 \rightarrow K^0 K^0$, and measurement of the branching fraction and search for direct CP violation in $B^{+} \rightarrow K^0 \pi^{+}$. <i>Physical Review Letters</i> , 2005 , 95, 221801 | 7.4 | 8 |
| 137 | Measurement of the underlying event activity in inclusive Z boson production in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1 | 5.4 | 8 |
| 136 | Search for electroweak production of charginos in final states with two leptons in pp collisions at ($\sqrt{s}=8$) TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1 | 5.4 | 7 |
| 135 | Measurement of the production cross section of a W boson in association with two b jets in pp collisions at [Formula: see text]. <i>European Physical Journal C</i> , 2017 , 77, 92 | 4.2 | 7 |
| 134 | Measurement of the energy density as a function of pseudorapidity in proton-proton collisions at ($\sqrt{s}=13$,text {TeV}). <i>European Physical Journal C</i> , 2019 , 79, 1 | 4.2 | 7 |
| 133 | Search for rare decays of and Higgs bosons to and a photon in proton-proton collisions at $\sqrt{s}=13$. <i>European Physical Journal C</i> , 2019 , 79, 94 | 4.2 | 7 |
| 132 | Search for heavy resonances decaying into two Higgs bosons or into a Higgs boson and a W or Z boson in proton-proton collisions at 13 TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1 | 5.4 | 7 |
| 131 | Search for dark matter particles produced in association with a Higgs boson in proton-proton collisions at (\sqrt{s}) = 13 TeV. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1 | 5.4 | 7 |
| 130 | Response of microchannel plates in ionization mode to single particles and electromagnetic showers. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2018 , 879, 6-12 | 1.2 | 7 |
| 129 | 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> , 2016 , 2016, 1 | 5.4 | 7 |

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| 128 | Measurement of top quark polarisation in t-channel single top quark production. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1 | 5-4 | 7 |
| 127 | Measurement of the semileptonic $(\overline{\text{t}} + \text{t})$ production cross section in pp collisions at $(\sqrt{s}=8)$ TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1 | 5-4 | 7 |
| 126 | Searches for W^\pm bosons decaying to a top quark and a bottom quark in proton-proton collisions at 13 TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1 | 5-4 | 7 |
| 125 | Measurement of the $Z\gamma$ production cross section in pp collisions at 8 TeV and search for anomalous triple gauge boson couplings. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1 | 5-4 | 7 |
| 124 | Time-dependent Dalitz plot analysis of $B_0 \rightarrow D^* K_0^0$ decays. <i>Physical Review D</i> , 2008 , 77, | 4-9 | 7 |
| 123 | Observation of $B^+ \rightarrow \mu^+ K_0^0$ and measurement of its branching fraction and charge asymmetry. <i>Physical Review D</i> , 2007 , 76, | 4-9 | 7 |
| 122 | Improved measurement of time-dependent CP asymmetries and the CP-odd fraction in the decay $B_0 \rightarrow D^{*+} D^{*-}$. <i>Physical Review D</i> , 2007 , 76, | 4-9 | 7 |
| 121 | Measurement of B decays to $\eta' K^0$. <i>Physical Review D</i> , 2007 , 75, | 4-9 | 7 |
| 120 | Measurements of \overline{B}^+ branching fractions of Cabibbo-suppressed decay modes involving η and η' . <i>Physical Review D</i> , 2007 , 75, | 4-9 | 7 |
| 119 | Measurement of branching fractions and mass spectra of $B \rightarrow K \pi \pi$. <i>Physical Review Letters</i> , 2007 , 98, 211804 | 7-4 | 7 |
| 118 | Observation of $B \rightarrow \eta' K^*$ and evidence for $B \rightarrow \eta' K^* K^0$. <i>Physical Review Letters</i> , 2007 , 98, 051802 | 7-4 | 7 |
| 117 | Search for the W-exchange decays $B_0 \rightarrow D_s^{(*)} D_s^{(*)+}$. <i>Physical Review D</i> , 2005 , 72, | 4-9 | 7 |
| 116 | Precise branching ratio measurements of the decays $D_0 \rightarrow \eta' \pi^0$ and $D_0 \rightarrow K_S^0 \pi^0$ relative to the $D_0 \rightarrow K_S^0 \pi^0$ decay. <i>Physical Review D</i> , 2006 , 74, | 4-9 | 7 |
| 115 | Search for rare quark-annihilation decays, $B \rightarrow D_s^{(*)} \eta$. <i>Physical Review D</i> , 2006 , 73, | 4-9 | 7 |
| 114 | Search for the decay of a B_0 or B^0 meson to $K_S^0 K^0$ or $K^* K^0$. <i>Physical Review D</i> , 2006 , 74, | 4-9 | 7 |
| 113 | Measurement of time-dependent CP asymmetries in $B_0 \rightarrow D^{(*)+} D^{*-}$ decays. <i>Physical Review Letters</i> , 2005 , 95, 131802 | 7-4 | 7 |
| 112 | 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> , 2016 , 2016, 1 | 5-4 | 7 |
| 111 | Search for dark matter produced in association with a leptonically decaying boson in proton-proton collisions at. <i>European Physical Journal C</i> , 2021 , 81, 13 | 4-2 | 7 |

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| 110 | Search for heavy resonances decaying into a vector boson and a Higgs boson in final states with charged leptons, neutrinos and b quarks at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1 | 5-4 | 7 |
| 109 | Search for a heavy resonance decaying into a Z boson and a Z or W boson in $2\ell q$ final states at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1 | 5-4 | 7 |
| 108 | Search for dark matter produced in association with a Higgs boson decaying to $\ell\bar{\nu}\ell$ ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1 | 5-4 | 7 |
| 107 | Precision luminosity measurement in proton-proton collisions at in 2015 and 2016 at CMS. <i>European Physical Journal C</i> , 2021 , 81, 800 | 4-2 | 7 |
| 106 | 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> , 2019 , 79, 90 | 4-2 | 6 |
| 105 | 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> , 2015 , 2015, 1 | 5-4 | 6 |
| 104 | Mixed higher-order anisotropic flow and nonlinear response coefficients of charged particles in collisions at and 5.02. <i>European Physical Journal C</i> , 2020 , 80, 534 | 4-2 | 6 |
| 103 | Measurement of electroweak production of a boson in association with two jets in proton-proton collisions at. <i>European Physical Journal C</i> , 2020 , 80, 43 | 4-2 | 6 |
| 102 | Measurement of dijet azimuthal decorrelation in pp collisions at [Formula: see text]. <i>European Physical Journal C</i> , 2016 , 76, 536 | 4-2 | 6 |
| 101 | Search for a heavy resonance decaying to a top quark and a vector-like top quark in the lepton + jets final state in pp collisions at ($\sqrt{s} = 13$, text {TeV}). <i>European Physical Journal C</i> , 2019 , 79, 1 | 4-2 | 6 |
| 100 | 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> , 2012 , 2012, 1 | 5-4 | 6 |
| 99 | Study of B meson decays with excited eta and eta mesons. <i>Physical Review Letters</i> , 2008 , 101, 091801 | 7-4 | 6 |
| 98 | Measurement of the CP asymmetry and branching fraction of $B^0 \rightarrow \rho^0 K^0$. <i>Physical Review Letters</i> , 2007 , 98, 051803 | 7-4 | 6 |
| 97 | Measurement of the $B \rightarrow D^* K^*$ branching fraction. <i>Physical Review D</i> , 2006 , 73, | 4-9 | 6 |
| 96 | Search for the associated production of the Higgs boson with a top-quark pair 2014 , 2014, 1 | | 6 |
| 95 | Characterization of SABRE crystal NaI-33 with direct underground counting. <i>European Physical Journal C</i> , 2021 , 81, 1 | 4-2 | 6 |
| 94 | Beam test evaluation of electromagnetic calorimeter modules made from proton-damaged PbWO ₄ crystals. <i>Journal of Instrumentation</i> , 2016 , 11, P04012-P04012 | 1 | 6 |
| 93 | 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> , 2016 , 2016, 1 | 5-4 | 6 |

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| 92 | Measurement of the differential Drell-Yan cross section in proton-proton collisions at (\sqrt{s}) = 13 TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1 | 5.4 | 6 |
| 91 | Measurement of the average very forward energy as a function of the track multiplicity at central pseudorapidities in proton-proton collisions at. <i>European Physical Journal C</i> , 2019 , 79, 893 | 4.2 | 6 |
| 90 | Search for new physics in top quark production in dilepton final states in proton-proton collisions at. <i>European Physical Journal C</i> , 2019 , 79, 886 | 4.2 | 6 |
| 89 | Search for decays of stopped exotic long-lived particles produced in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1 | 5.4 | 6 |
| 88 | Search for a heavy resonance decaying into a Z boson and a vector boson in the ($\nu\overline{\nu}\mathit{q}\overline{\mathit{q}}$) final state. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1 | 5.4 | 6 |
| 87 | Measurement of the mass of the top quark in decays with a J/ψ meson in pp collisions at 8 TeV. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1 | 5.4 | 5 |
| 86 | 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> , 2017 , 2017, 1 | 5.4 | 5 |
| 85 | Comparison of the $Z/\psi + \text{jets}$ to ψ jets cross sections in pp collisions at ($\sqrt{s}=8$) TeV. <i>Journal of High Energy Physics</i> , 2015 , 2015, 1 | 5.4 | 5 |
| 84 | Search for the rare charmless hadronic decay $B^+ \rightarrow a_0^0 \pi^+$. <i>Physical Review D</i> , 2008 , 77, | 4.9 | 5 |
| 83 | Measurement of CP asymmetries in $B^0 \rightarrow K_S^0 K_S^0 K_S^0$ decays. <i>Physical Review D</i> , 2007 , 76, | 4.9 | 5 |
| 82 | Search for the rare decays $B^+ \rightarrow D^{(*)} K_S^0$. <i>Physical Review D</i> , 2005 , 72, | 4.9 | 5 |
| 81 | Search for the rare decays $B^0 \rightarrow D_s^{(*)} a_0(2) \pi$ <i>Physical Review D</i> , 2006 , 73, | 4.9 | 5 |
| 80 | Measurement of energy flow at large pseudorapidities in pp collisions at ($\sqrt{s} = 0.9$) and 7 TeV 2011 , 2011, 1 | | 5 |
| 79 | Measurements of production cross sections and constraints on anomalous triple gauge couplings at. <i>European Physical Journal C</i> , 2021 , 81, 200 | 4.2 | 5 |
| 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. <i>European Physical Journal C</i> , 2021 , 81, 378 | 4.2 | 5 |
| 77 | Measurements of production cross sections of the Higgs boson in the four-lepton final state in proton-proton collisions at. <i>European Physical Journal C</i> , 2021 , 81, 488 | 4.2 | 5 |
| 76 | Search for top squark pair production using dilepton final states in collision data collected at. <i>European Physical Journal C</i> , 2021 , 81, 3 | 4.2 | 5 |
| 75 | Measurement of the cross section in pp collisions at and validation of lepton analysis techniques. <i>European Physical Journal C</i> , 2018 , 78, 708 | 4.2 | 5 |

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| 74 | Search for the pair production of light top squarks in the $e\bar{e}$ final state in proton-proton collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1 | 5-4 | 4 |
| 73 | Study of the underlying event in top quark pair production in collisions at 13. <i>European Physical Journal C</i> , 2019 , 79, 123 | 4-2 | 4 |
| 72 | Measurement of differential cross sections for inclusive isolated-photon and photon+jet production in proton-proton collisions at. <i>European Physical Journal C</i> , 2019 , 79, 20 | 4-2 | 4 |
| 71 | 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> , 2015 , 75, 302 | 4-2 | 4 |
| 70 | Evidence for (W) production from double-parton interactions in proton-proton collisions at ($\sqrt{s} = 13$, TeV). <i>European Physical Journal C</i> , 2020 , 80, 1 | 4-2 | 4 |
| 69 | Study of dijet events with a large rapidity gap between the two leading jets in pp collisions at. <i>European Physical Journal C</i> , 2018 , 78, 242 | 4-2 | 4 |
| 68 | 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> , 2017 , 2017, 1 | 5-4 | 4 |
| 67 | Search for high-mass Z resonances in e^+e^- and $\mu^+\mu^-$ final states in proton-proton collisions at ($\sqrt{s}=8$) and 13 TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1 | 5-4 | 4 |
| 66 | 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> , 2017 , 2017, 1 | 5-4 | 4 |
| 65 | Beam test results for a tungsten-cerium fluoride sampling calorimeter with wavelength-shifting fiber readout. <i>Journal of Instrumentation</i> , 2015 , 10, P07002-P07002 | 1 | 4 |
| 64 | Search for the decays $B^0 \rightarrow e^+e^-$ and $B^0 \rightarrow \mu^+\mu^-$ <i>Physical Review D</i> , 2008 , 77, | 4-9 | 4 |
| 63 | Observation of $B^+ \rightarrow \phi\phi K^+$ and evidence for $B^0 \rightarrow \phi\phi K^0$ below $\eta(c)$ threshold. <i>Physical Review Letters</i> , 2006 , 97, 261803 | 7-4 | 4 |
| 62 | Search for $b \rightarrow u$ transitions in $B \rightarrow [K^0] DK^0$ <i>Physical Review D</i> , 2007 , 76, | 4-9 | 4 |
| 61 | Evidence for the Rare Decay $B^+ \rightarrow D_s^+ \mu^+$. <i>Physical Review Letters</i> , 2007 , 98, | 7-4 | 4 |
| 60 | Search for the decay $B \rightarrow 3\mu 2\pi$ <i>Physical Review D</i> , 2006 , 73, | 4-9 | 4 |
| 59 | Measurement of differential cross sections and charge ratios for γ -channel single top quark production in proton-proton collisions at. <i>European Physical Journal C</i> , 2020 , 80, 370 | 4-2 | 4 |
| 58 | 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> , 2016 , 2016, 1 | 5-4 | 4 |
| 57 | Azimuthal correlations for inclusive 2-jet, 3-jet, and 4-jet events in pp collisions at ($\sqrt{s}= 13$ ~hbox{TeV}). <i>European Physical Journal C</i> , 2018 , 78, 1 | 4-2 | 4 |

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|----|---|-----|---|
| 56 | MUSiC: a model-unspecific search for new physics in proton-proton collisions at. <i>European Physical Journal C</i> , 2021 , 81, 629 | 4.2 | 4 |
| 55 | Performance of a tungstenberium fluoride sampling calorimeter in high-energy electron beam tests. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2015 , 804, 79-83 | 1.2 | 3 |
| 54 | Search for direct pair production of supersymmetric partners to the lepton in proton-proton collisions at. <i>European Physical Journal C</i> , 2020 , 80, 189 | 4.2 | 3 |
| 53 | Search for pair production of excited top quarks in the lepton + jets final state. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1 | 5.4 | 3 |
| 52 | 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> , 2017 , 2017, 1 | 5.4 | 3 |
| 51 | Micro-channel plates in ionization mode as a fast timing device for future hadron colliders. <i>Journal of Instrumentation</i> , 2017 , 12, C08014-C08014 | 1 | 3 |
| 50 | 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> , 2014 , 2014, 1 | 5.4 | 3 |
| 49 | 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> , 2012 , 2012, 1 | 5.4 | 3 |
| 48 | Measurement of the branching fraction and decay rate asymmetry of $B \rightarrow D^* K$. <i>Physical Review D</i> , 2005 , 72, | 4.9 | 3 |
| 47 | Search for the decay $B_0 \rightarrow K_S^0 K_S^0 K_L^0$. <i>Physical Review D</i> , 2006 , 74, | 4.9 | 3 |
| 46 | Search for B meson decays to $\overline{K}^* K$. <i>Physical Review D</i> , 2006 , 74, | 4.9 | 3 |
| 45 | Measurements of the ($\text{pp} \rightarrow \text{ZZ}$) production cross section and the ($\text{ZZ} \rightarrow 4\ell$) branching fraction, and constraints on anomalous triple gauge couplings at ($\sqrt{s} = 13, \text{TeV}$) 2018 , 78, 1 | | 3 |
| 44 | Combined searches for the production of supersymmetric top quark partners in proton-proton collisions at. <i>European Physical Journal C</i> , 2021 , 81, 970 | 4.2 | 3 |
| 43 | Measurement of the (\overline{t}) production cross section in the dilepton channel in pp collisions at ($\sqrt{s} = 8$ TeV) 2014 , 2014, 1 | | 3 |
| 42 | A Deep Neural Network for Simultaneous Estimation of b Jet Energy and Resolution. <i>Computing and Software for Big Science</i> , 2020 , 4, 10 | 6 | 3 |
| 41 | Measurements of Higgs boson production cross sections and couplings in the diphoton decay channel at ($\sqrt{s} = 13$ TeV). <i>Journal of High Energy Physics</i> , 2021 , 2021, 1 | 5.4 | 3 |
| 40 | Search for charged Higgs bosons produced in vector boson fusion processes and decaying into vector boson pairs in proton-proton collisions at. <i>European Physical Journal C</i> , 2021 , 81, 723 | 4.2 | 3 |
| 39 | Search for resonant production of second-generation sleptons with same-sign dimuon events in proton-proton collisions at. <i>European Physical Journal C</i> , 2019 , 79, 305 | 4.2 | 2 |

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| 38 | Search for new phenomena in final states with two opposite-charge, same-flavor leptons, jets, and missing transverse momentum in pp collisions at ($\sqrt{s}=13$) TeV. <i>Journal of High Energy Physics</i> , 2018 , 2018, 1 | 5.4 | 2 |
| 37 | 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> , 2016 , 2016, 1 | 5.4 | 2 |
| 36 | Search for $W \rightarrow tb$ in proton-proton collisions at ($\sqrt{s}=8$) TeV. <i>Journal of High Energy Physics</i> , 2016 , 2016, 1 | 5.4 | 2 |
| 35 | 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> , 2016 , 2016, 1 | 5.4 | 2 |
| 34 | Search for new phenomena with multiple charged leptons in proton-proton collisions at ($\sqrt{s}=13$) (TeV). <i>European Physical Journal C</i> , 2017 , 77, 1 | 4.2 | 2 |
| 33 | Search for prompt production of \tilde{b} and $X(3872)$ in e^+e^- annihilations. <i>Physical Review D</i> , 2007 , 76, | 4.9 | 2 |
| 32 | Search for new physics in events with same-sign dileptons and b jets in pp collisions at ($\sqrt{s}=8$) TeV 2013 , 2013, 1 | | 2 |
| 31 | Study of central exclusive production in proton-proton collisions at and 13TeV. <i>European Physical Journal C</i> , 2020 , 80, 718 | 4.2 | 2 |
| 30 | 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. <i>European Physical Journal C</i> , 2020 , 80, 752 | 4.2 | 2 |
| 29 | High sensitivity characterization of an ultrahigh purity NaI(Tl) crystal scintillator with the SABRE proof-of-principle detector. <i>Physical Review D</i> , 2021 , 104, | 4.9 | 2 |
| 28 | Test beam results with a sampling calorimeter of cerium fluoride scintillating crystals and tungsten absorber plates for calorimetry at the HL-LHC. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2016 , 824, 681-683 | 1.2 | 1 |
| 27 | Beam test results on the detection of single particles and electromagnetic showers with microchannel plates. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2017 , 845, 471-474 | 1.2 | 1 |
| 26 | Search for supersymmetry in events with a photon, jets, τ -jets, and missing transverse momentum in proton-proton collisions at 13. <i>European Physical Journal C</i> , 2019 , 79, 444 | 4.2 | 1 |
| 25 | High-energy electron test results of a calorimeter prototype based on CeF ₃ for HL-LHC applications 2015 , | | 1 |
| 24 | Search for the rare decay $B \rightarrow D^* \mu^+ \mu^-$ <i>Physical Review D</i> , 2005 , 72, | 4.9 | 1 |
| 23 | Development and validation of HERWIG ⁺⁺ tunes from CMS underlying-event measurements. <i>European Physical Journal C</i> , 2021 , 81, 312 | 4.2 | 1 |
| 22 | Measurements of triple-differential cross sections for inclusive isolated-photon+jet events in collisions at. <i>European Physical Journal C</i> , 2019 , 79, 969 | 4.2 | 1 |
| 21 | Search for flavor-changing neutral current interactions of the top quark and the Higgs boson decaying to a bottom quark-antiquark pair at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , 2022 , 2022, 1 | 5.4 | 1 |

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| 20 | Azimuthal separation in nearly back-to-back jet topologies in inclusive 2- and 3-jet events in collisions at. <i>European Physical Journal C</i> , 2019 , 79, 773 | 4.2 | ○ |
| 19 | Measurement of single-diffractive dijet production in proton-proton collisions at with the CMS and TOTEM experiments. <i>European Physical Journal C</i> , 2020 , 80, 1164 | 4.2 | ○ |
| 18 | Search for a heavy vector resonance decaying to a γ boson and a Higgs boson in proton-proton collisions at. <i>European Physical Journal C</i> , 2021 , 81, 688 | 4.2 | ○ |
| 17 | Measurements of angular distance and momentum ratio distributions in three-jet and + two-jet final states in collisions. <i>European Physical Journal C</i> , 2021 , 81, 852 | 4.2 | ○ |
| 16 | Inclusive and differential cross section measurements of single top quark production in association with a Z boson in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , 2022 , 2022, 1 | 5.4 | ○ |
| 15 | Search for long-lived particles decaying to leptons with large impact parameter in proton-proton collisions at .. <i>European Physical Journal C</i> , 2022 , 82, 153 | 4.2 | ○ |
| 14 | Search for low-mass dilepton resonances in Higgs boson decays to four-lepton final states in proton-proton collisions at .. <i>European Physical Journal C</i> , 2022 , 82, 290 | 4.2 | ○ |
| 13 | Search for supersymmetry in final states with two or three soft leptons and missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , 2022 , 2022, 1 | 5.4 | ○ |
| 12 | Search for a right-handed W boson and a heavy neutrino in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , 2022 , 2022, 1 | 5.4 | ○ |
| 11 | Search for a heavy resonance decaying into a top quark and a W boson in the lepton+jets final state at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , 2022 , 2022, 1 | 5.4 | ○ |
| 10 | Search for heavy resonances decaying to ZZ or ZW and axion-like particles mediating nonresonant ZZ or ZH production at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , 2022 , 2022, 1 | 5.4 | ○ |
| 9 | Measurement and QCD analysis of double-differential inclusive jet cross sections in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , 2022 , 2022, 1 | 5.4 | ○ |
| 8 | Search for electroweak production of charginos and neutralinos in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , 2022 , 2022, 1 | 5.4 | ○ |
| 7 | A fast timing calorimetric layer using micro-channel plates in ionisation mode. <i>Journal of Instrumentation</i> , 2017 , 12, C03019-C03019 | 1 | |
| 6 | 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> , 2015 , 2015, 1 | 5.4 | |
| 5 | The CMS ECAL Barrel HV system. <i>Journal of Instrumentation</i> , 2013 , 8, C02039-C02039 | 1 | |
| 4 | A STUDY OF $B^0 \rightarrow B^0 \gamma$ OSCILLATIONS WITH FULLY RECONSTRUCTED B MESONS WITH THE BABAR DETECTOR. <i>International Journal of Modern Physics A</i> , 2001 , 16, 407-409 | 1.2 | |
| 3 | Calibration of the CMS hadron calorimeters using proton-proton collision data at $\sqrt{s} = 13$ TeV. <i>Journal of Instrumentation</i> , 2020 , 15, P05002-P05002 | 1 | |

- 2 Study of dijet events with large rapidity separation in proton-proton collisions at $\sqrt{s} = 2.76$ TeV. *Journal of High Energy Physics*, **2022**, 2022, 1 5-4
- 1 Measurement of the inclusive $\overline{\text{t}}$ production cross section in proton-proton collisions at $\sqrt{s} = 5.02$ TeV. *Journal of High Energy Physics*, **2022**, 2022, 1 5-4