

Egidio Longo

List of Publications by Citations

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637
papers

24,969
citations

73
h-index

125
g-index

657
ext. papers

27,235
ext. citations

4.4
avg. IF

6.33
L-index

| # | Paper | IF | Citations |
|-----|---|------|-----------|
| 637 | Precision electroweak measurements on the Z resonance. <i>Physics Reports</i> , 2006 , 427, 257-454 | 27.7 | 730 |
| 636 | Combined Measurement of the Higgs Boson Mass in pp Collisions at $\sqrt{s}=7$ and 8 TeV with the ATLAS and CMS Experiments. <i>Physical Review Letters</i> , 2015 , 114, 191803 | 7.4 | 709 |
| 635 | CMS Physics Technical Design Report, Volume II: Physics Performance. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2007 , 34, 995-1579 | 2.9 | 602 |
| 634 | Search for neutral MSSM Higgs bosons at LEP. <i>European Physical Journal C</i> , 2006 , 47, 547 | 4.2 | 496 |
| 633 | Determination of jet energy calibration and transverse momentum resolution in CMS. <i>Journal of Instrumentation</i> , 2011 , 6, P11002-P11002 | 1 | 463 |
| 632 | 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 |
| 631 | Performance of CMS muon reconstruction in pp collision events at $\sqrt{s} = 7$ TeV. <i>Journal of Instrumentation</i> , 2012 , 7, P10002-P10002 | 1 | 398 |
| 630 | 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 |
| 629 | Identification of b-quark jets with the CMS experiment. <i>Journal of Instrumentation</i> , 2013 , 8, P04013-P04013 | 4.2 | 376 |
| 628 | Study of high-p T charged particle suppression in PbPb compared to pp collisions at ($\sqrt{s_{\mathrm{NN}}}=2.76\sim\mathrm{TeV}$). <i>European Physical Journal C</i> , 2012 , 72, 1 | 4.2 | 316 |
| 627 | 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 |
| 626 | 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 |
| 625 | Event generator tunes obtained from underlying event and multiparton scattering measurements. <i>European Physical Journal C</i> , 2016 , 76, 155 | 4.2 | 250 |
| 624 | 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 |
| 623 | Measurement of the $B_s(0)\rightarrow\mu\mu$ branching fraction and search for $B(0)\rightarrow\mu\mu$ with the CMS experiment. <i>Physical Review Letters</i> , 2013 , 111, 101804 | 7.4 | 220 |
| 622 | 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 |
| 621 | A determination of the properties of the neutral intermediate vector boson Z_0 . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1989 , 231, 509-518 | 4.2 | 195 |

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| 620 | Search for supersymmetry at the LHC in events with jets and missing transverse energy. <i>Physical Review Letters</i> , 2011 , 107, 221804 | 7.4 | 188 |
| 619 | Suppression of non-prompt J/ψ and $(\Upsilon)(1S)$ in PbPb collisions at $(\sqrt{s_{NN}}) = 2.76$ TeV. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1 | 5.4 | 184 |
| 618 | 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 |
| 617 | Parton densities from deep inelastic scattering to hadronic processes at super collider energies. <i>Zeitschrift für Physik C-Particles and Fields</i> , 1988 , 39, 21-37 | | 183 |
| 616 | Observation of sequential Λ suppression in PbPb collisions. <i>Physical Review Letters</i> , 2012 , 109, 222301 | 7.4 | 172 |
| 615 | Search for top-squark pair production in the single-lepton final state in pp collisions at $(\sqrt{s}) = 8$ TeV. <i>European Physical Journal C</i> , 2013 , 73, 1 | 4.2 | 162 |
| 614 | Centrality dependence of dihadron correlations and azimuthal anisotropy harmonics in PbPb collisions at $(\sqrt{s_{NN}}) = 2.76$ TeV. <i>European Physical Journal C</i> , 2012 , 72, 1 | 4.2 | 158 |
| 613 | 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 |
| 612 | Combined measurements of Higgs boson couplings in proton-proton collisions at. <i>European Physical Journal C</i> , 2019 , 79, 421 | 4.2 | 153 |
| 611 | 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 |
| 610 | 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 |
| 609 | Study of the inclusive production of charged pions, kaons, and protons in pp collisions at $(\sqrt{s}) = 0.9, 2.76, 7$ TeV. <i>European Physical Journal C</i> , 2012 , 72, 1 | 4.2 | 133 |
| 608 | 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 |
| 607 | A search for decays of heavy neutrinos in the mass range 0.5–8 GeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1986 , 166, 473-478 | 4.2 | 124 |
| 606 | 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 |
| 605 | 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 |
| 604 | Monte Carlo calculation of photon-initiated electromagnetic showers in lead glass. <i>Nuclear Instruments & Methods</i> , 1975 , 128, 283-307 | | 118 |
| 603 | Search for dijet resonances in 7 TeV pp collisions at CMS. <i>Physical Review Letters</i> , 2010 , 105, 211801 | 7.4 | 116 |

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| 602 | Search for dark matter and large extra dimensions in pp collisions yielding a photon and missing transverse energy. <i>Physical Review Letters</i> , 2012 , 108, 261803 | 7.4 | 116 |
| 601 | A search for a doubly-charged Higgs boson in pp collisions at ($\sqrt{s} = 7$ TeV). <i>European Physical Journal C</i> , 2012 , 72, 1 | 4.2 | 111 |
| 600 | Energy calibration and resolution of the CMS electromagnetic calorimeter in pp collisions at $\sqrt{s} = 7$ TeV. <i>Journal of Instrumentation</i> , 2013 , 8, P09009-P09009 | 1 | 111 |
| 599 | Search for heavy neutral and charged leptons in e^+e^- annihilation at LEP. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2001 , 517, 75-85 | 4.2 | 106 |
| 598 | 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 |
| 597 | Measurement of differential top-quark-pair production cross sections in pp collisions at ($\sqrt{s} = 7$ TeV). <i>European Physical Journal C</i> , 2013 , 73, 1 | 4.2 | 102 |
| 596 | Evidence for the 125 GeV Higgs boson decaying to a pair of leptons. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1 | 5.4 | 101 |
| 595 | 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 |
| 594 | CMS tracking performance results from early LHC operation. <i>European Physical Journal C</i> , 2010 , 70, 1165-1192 | 4.99 | 99 |
| 593 | CMS Physics Technical Design Report: Addendum on High Density QCD with Heavy Ions. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2007 , 34, 2307-2455 | 2.9 | 99 |
| 592 | 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 |
| 591 | A precise determination of the electroweak mixing angle from semi-leptonic neutrino scattering. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1986 , 177, 446-452 | 4.2 | 98 |
| 590 | 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 |
| 589 | Missing transverse energy performance of the CMS detector. <i>Journal of Instrumentation</i> , 2011 , 6, P09001-P09004 | 1 | 94 |
| 588 | Experimental study of neutral-current and charged-current neutrino cross sections. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1981 , 99, 265-270 | 4.2 | 94 |
| 587 | 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 |
| 586 | 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 |
| 585 | The L3 lead-scintillating fiber calorimeter. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1996 , 374, 293-298 | 1.2 | 88 |

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| 584 | Dependence on pseudorapidity and on centrality of charged hadron production in PbPb collisions at ($\sqrt{s_{\text{NN}}}$) = 2.76 TeV. <i>Journal of High Energy Physics</i> , 2011 , 2011, 1 | 5-4 | 87 |
| 583 | Single- and multi-photon events with missing energy in e+e- collisions at LEP. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2004 , 587, 16-32 | 4-2 | 84 |
| 582 | A precise determination of the electroweak mixing angle from semileptonic neutrino scattering. <i>Zeitschrift für Physik C-Particles and Fields</i> , 1987 , 36, 611-628 | | 84 |
| 581 | 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 |
| 580 | 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 |
| 579 | Performance of \bar{q} -lepton reconstruction and identification in CMS. <i>Journal of Instrumentation</i> , 2012 , 7, P01001-P01001 | 1 | 81 |
| 578 | A search for decays of heavy neutrinos. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1983 , 128, 361-366 | 4-2 | 81 |
| 577 | Search for scalar leptons and scalar quarks at LEP. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2004 , 580, 37-49 | 4-2 | 80 |
| 576 | Measurement of the atmospheric muon spectrum from 20 to 3000 GeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2004 , 598, 15-32 | 4-2 | 79 |
| 575 | Studies of hadronic event structure in e+e- annihilation from 30 to 209 GeV with the L3 detector. <i>Physics Reports</i> , 2004 , 399, 71-174 | 27-7 | 79 |
| 574 | Strange particle production in pp collisions at (\sqrt{s}) = 0.9 TeV and 7 TeV. <i>Journal of High Energy Physics</i> , 2011 , 2011, 1 | 5-4 | 78 |
| 573 | 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 |
| 572 | Experimental study of the nucleon structure functions and of the gluon distribution from charged-current neutrino and antineutrino interactions. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1983 , 123, 269-274 | 4-2 | 77 |
| 571 | Searches for new physics using the $t\bar{t}$ invariant mass distribution in pp collisions at \sqrt{s} = 8 TeV. <i>Physical Review Letters</i> , 2013 , 111, 211804 | 7-4 | 76 |
| 570 | Search for isosinglet neutral heavy leptons in Z0 decays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1992 , 295, 371-382 | 4-2 | 76 |
| 569 | Determination of β s from jet multiplicities measured on the Z0 resonance. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1990 , 248, 464-472 | 4-2 | 76 |
| 568 | Measurements of decays and the semileptonic branching ratio BR (b \rightarrow X). <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1991 , 261, 177-187 | 4-2 | 75 |
| 567 | 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 |

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| 566 | 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 |
| 565 | Measurement of jet fragmentation into charged particles in pp and PbPb collisions at ($\sqrt{s_{\mathrm{NN}}}$) = 2.76) TeV. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1 | 5-4 | 73 |
| 564 | Measurement of the inclusive production of neutral pions and charged particles on the Z0 resonance. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1991 , 259, 199-208 | 4-2 | 72 |
| 563 | Studies of hadronic event structure and comparisons with QCD models at the Z0 resonance. <i>Zeitschrift für Physik C-Particles and Fields</i> , 1992 , 55, 39-61 | | 72 |
| 562 | 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 |
| 561 | A new boson with a mass of 125 GeV observed with the CMS experiment at the Large Hadron Collider. <i>Science</i> , 2012 , 338, 1569-75 | 33-3 | 71 |
| 560 | 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 |
| 559 | 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 |
| 558 | 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 |
| 557 | Measurement of Z0 decays to hadrons, and a precise determination of the number of neutrino species. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1990 , 237, 136-146 | 4-2 | 70 |
| 556 | J/ψ and ψ(2S) production in pp collisions at ($\sqrt{s} = 7$ TeV). <i>Journal of High Energy Physics</i> , 2012 , 2012, 1 | 5-4 | 69 |
| 555 | Mass limits for scalar muons, scalar electrons, and winos from e+e- collisions near √s = 91 GeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1989 , 233, 530-537 | 4-2 | 69 |
| 554 | A detector for neutral-current interactions of high-energy neutrinos. <i>Nuclear Instruments & Methods</i> , 1980 , 178, 27-48 | | 69 |
| 553 | Higgs candidates in e+e- interactions at √s = GeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2000 , 495, 18-25 | 4-2 | 68 |
| 552 | 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 |
| 551 | Study of Z Boson Production in PbPb Collisions at √s(NN)=2.76 TeV. <i>Physical Review Letters</i> , 2011 , 106, 212301 | 7-4 | 66 |
| 550 | 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 |
| 549 | Charged-particle nuclear modification factors in PbPb and pPb collisions at ($\sqrt{s_{\mathrm{N};\mathrm{N}}}=5.02$) TeV. <i>Journal of High Energy Physics</i> , 2017 , 2017, 1 | 5-4 | 64 |

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| 548 | 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 |
| 547 | Measurement of electroweak parameters from hadronic and leptonic decays of the Z 0. <i>Zeitschrift für Physik C-Particles and Fields</i> , 1991 , 51, 179-203 | | 64 |
| 546 | 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 |
| 545 | Observation of the associated production of a single top quark and a W boson in pp collisions at $\sqrt{s} = 8$ TeV. <i>Physical Review Letters</i> , 2014 , 112, 231802 | 7-4 | 62 |
| 544 | 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 |
| 543 | 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 |
| 542 | Studies of azimuthal dihadron correlations in ultra-central PbPb collisions at $(\sqrt{\{s_{NN}\}}) = 2.76$ TeV. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1 | 5-4 | 60 |
| 541 | Search for doubly-charged Higgs bosons at LEP. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2003 , 576, 18-28 | 4-2 | 60 |
| 540 | 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 |
| 539 | 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 |
| 538 | Search for top-quark partners with charge 5/3 in the same-sign dilepton final state. <i>Physical Review Letters</i> , 2014 , 112, 171801 | 7-4 | 58 |
| 537 | Determination of β_s from hadronic event shapes measured on the Z0 resonance. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1992 , 284, 471-481 | 4-2 | 58 |
| 536 | 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 |
| 535 | Observation of a new Λ_b baryon. <i>Physical Review Letters</i> , 2012 , 108, 252002 | 7-4 | 57 |
| 534 | 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 |
| 533 | 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 |
| 532 | Long-range and short-range dihadron angular correlations in central PbPb collisions at $(\sqrt{\{s_{\text{NN}}\}}) = 2.76$ TeV. <i>Journal of High Energy Physics</i> , 2011 , 2011, 1 | 5-4 | 56 |
| 531 | 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 |

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| 530 | Measurement of the pseudorapidity and centrality dependence of the transverse energy density in Pb-Pb collisions at $\sqrt{s_{NN}}=2.76$ TeV. <i>Physical Review Letters</i> , 2012 , 109, 152303 | 7.4 | 55 |
| 529 | Search for single top production at LEP. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2002 , 549, 290-300 | 4.2 | 55 |
| 528 | Search for signatures of extra dimensions in the diphoton mass spectrum at the large hadron collider. <i>Physical Review Letters</i> , 2012 , 108, 111801 | 7.4 | 53 |
| 527 | A search for oscillations of muon neutrinos in an experiment with $L/E \approx 0.7$ km/GeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1984 , 142, 103-110 | 4.2 | 53 |
| 526 | Experimental study of opposite-sign and same-sign dimuon events produced in wide-band neutrino and antineutrino beams. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1981 , 107, 241-248 | 4.2 | 53 |
| 525 | Search for $(B \rightarrow s\gamma)$ and $B_0 \rightarrow \mu\mu$ decays. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1 | 5.4 | 52 |
| 524 | Search for heavy isosinglet neutrino in e^+e^- annihilation at LEP. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2001 , 517, 67-74 | 4.2 | 52 |
| 523 | High energy cosmic muons and the calibration of the L3 electromagnetic calorimeter. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1989 , 275, 81-88 | 1.2 | 52 |
| 522 | A test of QCD based on 4-jet events from Z0 decays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1990 , 248, 227-234 | 4.2 | 52 |
| 521 | Experimental study of prompt neutrino production in 400 GeV proton-nucleus collisions. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1980 , 96, 435-442 | 4.2 | 52 |
| 520 | CUORE crystal validation runs: Results on radioactive contamination and extrapolation to CUORE background. <i>Astroparticle Physics</i> , 2012 , 35, 839-849 | 2.4 | 51 |
| 519 | Search for a light pseudoscalar Higgs boson in the dimuon decay channel in pp collisions at $\sqrt{s} = 7$ TeV. <i>Physical Review Letters</i> , 2012 , 109, 121801 | 7.4 | 51 |
| 518 | Measurement of inclusive production of neutral hadrons from Z decays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1994 , 328, 223-233 | 4.2 | 51 |
| 517 | Experimental results on neutrino-electron scattering. <i>Zeitschrift für Physik C-Particles and Fields</i> , 1989 , 41, 567-589 | | 51 |
| 516 | Measurement of Z0 $\rightarrow b\bar{b}$ decay properties. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1990 , 241, 416-424 | 4.2 | 51 |
| 515 | Experimental verification of the universality of electron-neutrino and muon-neutrino coupling to the neutral weak current. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1986 , 180, 303-307 | 4.2 | 51 |
| 514 | A new measurement of the ratio of the cross sections of muon-neutrino and muon-antineutrino scattering on electrons. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1984 , 147, 481-486 | 4.2 | 51 |
| 513 | Measurements of differential and double-differential Drell-Yan cross sections in proton-proton collisions at [Formula: see text][Formula: see text]. <i>European Physical Journal C</i> , 2015 , 75, 147 | 4.2 | 50 |

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| 512 | Measurement of the ratio of the inclusive 3-jet cross section to the inclusive 2-jet cross section in pp collisions at ($\sqrt{s} = 7 \text{ TeV}$) and first determination of the strong coupling constant in the TeV range. <i>European Physical Journal C</i> , 2013 , 73, 1 | 4.2 | 50 |
| 511 | 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 |
| 510 | Search for charginos and neutralinos in e^+e^- collisions at $\sqrt{s} = 189 \text{ GeV}$. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2000 , 472, 420-433 | 4.2 | 49 |
| 509 | Nuclear effects on the transverse momentum spectra of charged particles in pPb collisions at $\sqrt{s_{NN}} = 2.76 \text{ TeV}$. <i>European Physical Journal C</i> , 2015 , 75, 237 | 4.2 | 48 |
| 508 | Measurement of the t-channel single-top-quark production cross section and of the $ V_{tb} $ CKM matrix element in pp collisions at $\sqrt{s} = 8 \text{ TeV}$. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1 | 5.4 | 48 |
| 507 | Measurement of the $(\tau^+\tau^-)$ production cross section and the top quark mass in the dilepton channel in pp collisions at $\sqrt{s} = 7 \text{ TeV}$. <i>Journal of High Energy Physics</i> , 2011 , 2011, 1 | 5.4 | 48 |
| 506 | Measurement of the B_0 production cross section in pp collisions at $\sqrt{s} = 7 \text{ TeV}$. <i>Physical Review Letters</i> , 2011 , 106, 252001 | 7.4 | 48 |
| 505 | Search for manifestations of new physics in fermion-pair production at LEP. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2000 , 489, 81-92 | 4.2 | 48 |
| 504 | Bounds on supersymmetric particles from a proton beam-dump experiment. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1983 , 121, 429-432 | 4.2 | 48 |
| 503 | Search for flavor-changing neutral currents in top-quark decays $t \rightarrow Zq$ in pp collisions at $\sqrt{s} = 8 \text{ TeV}$. <i>Physical Review Letters</i> , 2014 , 112, 171802 | 7.4 | 46 |
| 502 | Measurement of the relative prompt production rate of $\tau^+\tau^-$ and W^+W^- in pp collisions at $\sqrt{s} = 7 \text{ TeV}$. <i>European Physical Journal C</i> , 2012 , 72, 2251 | 4.2 | 46 |
| 501 | 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 |
| 500 | Search for new physics with jets and missing transverse momentum in pp collisions at $\sqrt{s} = 7 \text{ TeV}$. <i>Journal of High Energy Physics</i> , 2011 , 2011, 1 | 5.4 | 46 |
| 499 | Experimental study of the reaction $pp \rightarrow p\bar{p}$. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1983 , 122, 465-470 | 4.2 | 46 |
| 498 | Exclusive $B \rightarrow \tau \nu$ production in proton-proton collisions at $\sqrt{s} = 7 \text{ TeV}$. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1 | 5.4 | 45 |
| 497 | 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 |
| 496 | Search for exclusive or semi-exclusive $B \rightarrow \tau \nu$ production and observation of exclusive and semi-exclusive $e^+e^- \rightarrow \tau^+\tau^-$ production in pp collisions at $\sqrt{s} = 7 \text{ TeV}$. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1 | 5.4 | 45 |
| 495 | Measurement of the sum of WW and WZ production with W +dijet events in pp collisions at $\sqrt{s} = 7 \text{ TeV}$. <i>European Physical Journal C</i> , 2013 , 73, 2283 | 4.2 | 45 |

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| 494 | Search for supersymmetry in pp collisions at \sqrt{s} TeV in events with two photons and missing transverse energy. <i>Physical Review Letters</i> , 2011 , 106, 211802 | 7.4 | 45 |
| 493 | Search for low scale gravity effects in e^+e^- collisions at LEP. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1999 , 464, 135-144 | 4.2 | 45 |
| 492 | 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 |
| 491 | 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 |
| 490 | 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 |
| 489 | Search for $B(s)0 \rightarrow \mu^+\mu^-$ and $B(0) \rightarrow \mu^+\mu^-$ decays in pp collisions at $\sqrt{s} = 7$ TeV. <i>Physical Review Letters</i> , 2011 , 107, 191802 | 7.4 | 44 |
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| 487 | Search for the neutral Higgs bosons of the minimal supersymmetric standard model from $Z0$ decays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1990 , 251, 311-320 | 4.2 | 44 |
| 486 | 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 |
| 485 | 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 |
| 484 | Event activity dependence of $(Y)(nS)$ 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 |
| 483 | Ordinary and extraordinary complex refractive index of the lead tungstate (PbWO $_4$) crystal. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1997 , 385, 209-214 | 1.2 | 42 |
| 482 | Measurement of triple-gauge-boson couplings of the W boson at LEP. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2004 , 586, 151-166 | 4.2 | 42 |
| 481 | Isolated hard photon emission in hadronic $Z0$ decays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1992 , 292, 472-484 | 4.2 | 42 |
| 480 | 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 |
| 479 | 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 |
| 478 | 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 |
| 477 | Search for extra dimensions in boson and fermion pair production in e^+e^- interactions at LEP. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1999 , 470, 281-288 | 4.2 | 41 |

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| 476 | Search for the neutral Higgs boson in Z0 decay. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1990 , 248, 203-210 | 4.2 | 41 |
| 475 | 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 |
| 474 | 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 |
| 473 | Study of the structure of hadronic events and determination of σ_{had} at $s = 130$ GeV and 136 GeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1996 , 371, 137-148 | 4.2 | 40 |
| 472 | Studies of jet mass in dijet and W/Z + jet events. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1 | 5.4 | 39 |
| 471 | 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 |
| 470 | Measurement of the ZZ production cross section and search for anomalous couplings in $2\ell\ell$ final states in pp collisions at ($\sqrt{s}=7$) TeV. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1 | 5.4 | 39 |
| 469 | 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 |
| 468 | 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 |
| 467 | 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 |
| 466 | Search for top squark and Higgsino production using diphoton Higgs boson decays. <i>Physical Review Letters</i> , 2014 , 112, 161802 | 7.4 | 38 |
| 465 | 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 |
| 464 | Light resonances in $K^0\bar{K}^0$ and $\pi^+\pi^-$ final states in e^+e^- collisions at LEP. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2001 , 501, 1-11 | 4.2 | 38 |
| 463 | $K^0\bar{K}^0$ final state in two-photon collisions and implications for glueballs. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2001 , 501, 173-182 | 4.2 | 38 |
| 462 | 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 |
| 461 | 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 |
| 460 | 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 |
| 459 | 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 |

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| 458 | 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 |
| 457 | 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 |
| 456 | 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 |
| 455 | Search for charged Higgs bosons at LEP. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2003 , 575, 208-220 | 4.2 | 37 |
| 454 | Determination of Γ_s from energy-energy correlations measured on the Z0 resonance. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1991 , 257, 469-478 | 4.2 | 37 |
| 453 | Measurement of the cross section of coherent $\bar{\nu}$ production by muon-neutrino and antineutrino neutral-current interactions on nuclei. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1985 , 157, 469-474 | 4.2 | 37 |
| 452 | 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 |
| 451 | Measurement of prompt and nonprompt charmonium suppression in collisions at 5.02. <i>European Physical Journal C</i> , 2018 , 78, 509 | 4.2 | 37 |
| 450 | Measurement of the top-quark mass in ($\overline{\text{t}}$) events with dilepton final states in pp collisions at ($\sqrt{s}=7$ TeV). <i>European Physical Journal C</i> , 2012 , 72, 1 | 4.2 | 36 |
| 449 | 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 |
| 448 | Single and multi-photon events with missing energy in $e+e$ collisions at $\sqrt{s} = 189$ GeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1999 , 470, 268-280 | 4.2 | 36 |
| 447 | High mass photon pairs in $\mu\mu$ events at LEP. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1992 , 295, 337-346 | 4.2 | 36 |
| 446 | Measurement of Γ_{had} from hadronic decays of the Z. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1993 , 307, 237-246 | 4.2 | 36 |
| 445 | A measurement of the Z0 leptonic partial widths and the vector and axial vector coupling constants. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1990 , 238, 122-130 | 4.2 | 36 |
| 444 | Experimental study of differential cross sections in neutral current neutrino and antineutrino interactions. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1981 , 102, 67-72 | 4.2 | 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 | 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 |
| 441 | 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 |

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| 440 | Measurement of the ($\mathit{\bar{t}}$) 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 |
| 439 | Alignment of the CMS silicon tracker during commissioning with cosmic rays. <i>Journal of Instrumentation</i> , 2010 , 5, T03009-T03009 | 1 | 35 |
| 438 | Search for branons at LEP. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2004 , 597, 145-154 | 4.2 | 35 |
| 437 | 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 |
| 436 | 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 |
| 435 | Search for microscopic black holes in pp collisions at ($\sqrt{s} = \text{7TeV}$). <i>Journal of High Energy Physics</i> , 2012 , 2012, 1 | 5.4 | 34 |
| 434 | 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 |
| 433 | Identification and filtering of uncharacteristic noise in the CMS hadron calorimeter. <i>Journal of Instrumentation</i> , 2010 , 5, T03014-T03014 | 1 | 34 |
| 432 | Total cross section in $\mathit{e}^+\mathit{e}^-$ collisions at LEP. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2001 , 519, 33-45 | 4.2 | 34 |
| 431 | 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 |
| 430 | 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 |
| 429 | 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 |
| 428 | Search for R-parity violating decays of supersymmetric particles in $\mathit{e}^+\mathit{e}^-$ collisions at LEP. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2002 , 524, 65-80 | 4.2 | 33 |
| 427 | Measurement of an elongation of the pion source in Z decays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1999 , 458, 517-528 | 4.2 | 33 |
| 426 | Identification techniques for highly boosted W bosons that decay into hadrons. <i>Journal of High Energy Physics</i> , 2014 , 2014, 1 | 5.4 | 32 |
| 425 | 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 |
| 424 | 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 |
| 423 | 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 |

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| 4 ²² | Search for the standard model Higgs boson in $e+e^-$ interactions at. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1997 , 411, 373-386 | 4.2 | 3 ² |
| 4 ²¹ | QCD studies and determination of β_s in $e+e^-$ collisions at and 172 GeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1997 , 404, 390-402 | 4.2 | 3 ² |
| 4 ²⁰ | Study of the $W+W^-$ process and limits on anomalous quartic gauge boson couplings at LEP. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2002 , 527, 29-38 | 4.2 | 3 ² |
| 4 ¹⁹ | Search for leptoquarks in Z^0 decays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1991 , 261, 169-176 | 4.2 | 3 ² |
| 4 ¹⁸ | Search for a Z^0 at the Z resonance. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1993 , 306, 187-196 | 4.2 | 3 ² |
| 4 ¹⁷ | A measurement of mixing in Z^0 decays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1990 , 252, 703-712 | 4.2 | 3 ² |
| 4 ¹⁶ | Performance of a prototype BGO calorimeter in an electron beam from 2 to 50 GeV. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1987 , 254, 535-541 | 1.2 | 3 ² |
| 4 ¹⁵ | Measurement of the ratio of the cross sections of muon neutrino and antineutrino scattering on electrons. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1982 , 117, 272-278 | 4.2 | 3 ² |
| 4 ¹⁴ | Performance and operation of the CMS electromagnetic calorimeter. <i>Journal of Instrumentation</i> , 2010 , 5, T03010-T03010 | 1 | 3 ¹ |
| 4 ¹³ | QCD results from studies of hadronic events produced in $e+e^-$ annihilations at GeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1998 , 444, 569-582 | 4.2 | 3 ¹ |
| 4 ¹² | Determination of β_s from hadronic event shapes in $e+e^-$ annihilation at 192-208 GeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2002 , 536, 217-228 | 4.2 | 3 ¹ |
| 4 ¹¹ | Search for lepton flavour violation in Z decays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1993 , 316, 427-434 | 4.2 | 3 ¹ |
| 4 ¹⁰ | Experimental study of inverse muon decay. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1980 , 93, 203-209 | 4.2 | 3 ¹ |
| 4 ⁰⁹ | Measurement of the $(\overline{\text{t}}\text{t})$ production cross section in the e^-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 | 3 ⁰ |
| 4 ⁰⁸ | 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 | 3 ⁰ |
| 4 ⁰⁷ | 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 | 3 ⁰ |
| 4 ⁰⁶ | 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 | 3 ⁰ |
| 4 ⁰⁵ | 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 | 3 ⁰ |

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| 404 | 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 |
| 403 | A search for the neutral Higgs boson at LEP. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1993 , 303, 391-399 | 4.2 | 30 |
| 402 | Measurement of g_A and g_V , the neutral current coupling constants to leptons. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1990 , 236, 109-115 | 4.2 | 30 |
| 401 | A precision measurement of the number of neutrino species. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1990 , 249, 341-352 | 4.2 | 30 |
| 400 | Parametrization of proton structure functions. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1987 , 197, 281-284 | 4.2 | 30 |
| 399 | 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 |
| 398 | Search for supersymmetry in final states with missing transverse energy and 0, 1, 2, or ≥ 3 b-quark jets in 7 TeV pp collisions using the variable β_T . <i>Journal of High Energy Physics</i> , 2013 , 2013, 1 | 5.4 | 29 |
| 397 | 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 |
| 396 | 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 |
| 395 | Performance of CMS muon reconstruction in cosmic-ray events. <i>Journal of Instrumentation</i> , 2010 , 5, T03022-T03022 | | |
| 394 | Measurement of the strong coupling constant α_S for bottom quarks at the Z0 resonance. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1991 , 271, 461-467 | 4.2 | 29 |
| 393 | 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 |
| 392 | A direct determination of the number of light neutrino families from at LEP. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1992 , 275, 209-221 | 4.2 | 28 |
| 391 | 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 |
| 390 | Shape, transverse size, and charged-hadron multiplicity of jets in pp collisions at ($\sqrt{s}=7\text{ TeV}$). <i>Journal of High Energy Physics</i> , 2012 , 2012, 1 | 5.4 | 27 |
| 389 | Measurement of ($\overline{B}B$) 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 |
| 388 | Reconstruction of the signal amplitude of the CMS electromagnetic calorimeter. <i>European Physical Journal C</i> , 2006 , 46, 23-35 | 4.2 | 27 |
| 387 | Measurement of the cross section of W-boson pair production at LEP. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2004 , 600, 22-40 | 4.2 | 27 |

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| 386 | Measurement of the forward-backward asymmetries at the Z0 resonance. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1992 , 292, 454-462 | 4.2 | 27 |
| 385 | A measurement of the forward-backward asymmetry. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1990 , 252, 713-721 | 4.2 | 27 |
| 384 | 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 |
| 383 | 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 |
| 382 | 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 |
| 381 | 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 |
| 380 | Measurement of exclusive $\tau\tau$ production in two-photon collisions at high Q2 at LEP. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2003 , 568, 11-22 | 4.2 | 26 |
| 379 | The response and resolution of a fine-grain marble calorimeter for hadronic and electromagnetic showers. <i>Nuclear Instruments & Methods in Physics Research</i> , 1982 , 200, 183-193 | | 26 |
| 378 | Measurement of the W-boson helicity in top-quark decays from ($\overline{t}t$) 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 |
| 377 | 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 |
| 376 | 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 |
| 375 | Search for resonant ($\overline{t}t$) 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 |
| 374 | Measurement of hadron and lepton-pair production at GeV at LEP. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2000 , 479, 101-117 | 4.2 | 25 |
| 373 | Search for supersymmetric particles at 130 GeV <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1996 , 377, 289-303 | 4.2 | 25 |
| 372 | Inclusive J production in Z0 decays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1992 , 288, 412-420 | 4.2 | 25 |
| 371 | Experimental study of the nucleon longitudinal structure function in charged-current neutrino and antineutrino interactions. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1984 , 141, 129-132 | 4.2 | 25 |
| 370 | 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 |
| 369 | 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 |

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| 368 | 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 |
| 367 | 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 |
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| 230 | Measurement of the ($\overline{\text{t}}\text{t}$) production cross section in the all-jet final state in pp collisions at ($\sqrt{s}=7$) TeV. <i>Journal of High Energy Physics</i> , 2013 , 2013, 1 | 5.4 | 14 |
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| 226 | Performance of a large system of proportional drift tubes for a fine-grain calorimeter. <i>Nuclear Instruments & Methods</i> , 1980 , 176, 189-193 | | 14 |
| 225 | Search for single photon direct production in p + p collisions at. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1978 , 77, 240-244 | 4.2 | 14 |

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| 224 | Measurement of the ratio of the production cross sections times branching fractions of $B \rightarrow c \bar{c} \bar{b}$ and $B \rightarrow \bar{c} b \bar{b}$ and $(\text{mathcal{B}}\left(\text{mathcal{B}}_{\text{mathrm{c}}}\right)\text{to } \text{mathrm{J}}/\psi\left(\pi^{\text{pm}}\right)\pi^{\text{pm}}\pi^{\text{mp}}\right)/\text{mathrm{mathcal{B}}\left(\text{mathcal{B}}_{\text{mathrm{c}}}\right)\text{to } \text{mathrm{J}}/\psi\left(\pi^{\text{pm}}\right)\pi^{\text{mp}}\right)}$ in pp collisions at $(\sqrt{s}=7)$ TeV. <i>Journal of High Energy Physics</i> , 2012 , 2012, 1 | 5.4 | 13 |
| 223 | 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 |
| 222 | Measurement of exclusive ϕ photoproduction in ultraperipheral pPb collisions at. <i>European Physical Journal C</i> , 2019 , 79, 702 | 4.2 | 13 |
| 221 | 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 |
| 220 | Probing color coherence effects in pp collisions at [Formula: see text]. <i>European Physical Journal C</i> , 2014 , 74, 2901 | 4.2 | 13 |
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| 204 | 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 |
| 203 | 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 |
| 202 | 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 |
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| 200 | 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 |
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| 189 | Measurement of associated Z + charm production in proton-proton collisions at. <i>European Physical Journal C</i> , 2018 , 78, 287 | 4.2 | 11 |

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| 177 | Determination of quark electroweak couplings from direct photon production in hadronic Z decays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1993 , 301, 136-144 | 4.2 | 11 |
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| 166 | 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 |
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| 147 | 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 |
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| 145 | 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 |
| 144 | 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 |
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| 129 | 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 |
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| 126 | 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 |
| 125 | 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 |
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| 113 | 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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| 109 | 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 |
| 108 | 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 |
| 107 | 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 |
| 106 | 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 |
| 105 | Measurement of dijet azimuthal decorrelation in pp collisions at [Formula: see text]. <i>European Physical Journal C</i> , 2016 , 76, 536 | 4.2 | 6 |
| 104 | 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 |
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