

# Alan Sill

## List of Publications by Citations

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447  
papers

30,145  
citations

77  
h-index

158  
g-index

454  
ext. papers

32,162  
ext. citations

5.6  
avg, IF

6.39  
L-index

#	Paper	IF	Citations
447	Observation of a new boson at a mass of 125 GeV with the CMS experiment at the LHC. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 716, 30-61	4.2	5161
446	The CMS experiment at the CERN LHC. <i>Journal of Instrumentation</i> , <b>2008</b> , 3, S08004-S08004	1	1276
445	Observation of Top Quark Production in p-bar-p Collisions with the Collider Detector at Fermilab. <i>Physical Review Letters</i> , <b>1995</b> , 74, 2626-2631	7.4	1067
444	CMS Physics Technical Design Report, Volume II: Physics Performance. <i>Journal of Physics G: Nuclear and Particle Physics</i> , <b>2007</b> , 34, 995-1579	2.9	602
443	Measurement of the $J/\psi$ meson and b-hadron production cross sections in pp collisions at $\sqrt{s}=1960$ GeV. <i>Physical Review D</i> , <b>2005</b> , 71,	4.9	596
442	Observation of the narrow state $X(3872) \rightarrow J/\psi \pi^+ \pi^-$ in pp collisions at square root of $s=1.96$ TeV. <i>Physical Review Letters</i> , <b>2004</b> , 93, 072001	7.4	469
441	Determination of jet energy calibration and transverse momentum resolution in CMS. <i>Journal of Instrumentation</i> , <b>2011</b> , 6, P11002-P11002	1	463
440	Combined results of searches for the standard model Higgs boson in pp collisions at . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 710, 26-48	4.2	437
439	Performance of CMS muon reconstruction in pp collision events at $\sqrt{s} = 7$ TeV. <i>Journal of Instrumentation</i> , <b>2012</b> , 7, P10002-P10002	1	398
438	Observation and studies of jet quenching in PbPb collisions at $\sqrt{s_{NN}}=2.76$ TeV. <i>Physical Review C</i> , <b>2011</b> , 84,	2.7	395
437	Measurements of the A Dependence of Deep-Inelastic Electron Scattering from Nuclei. <i>Physical Review Letters</i> , <b>1984</b> , 52, 727-730	7.4	393
436	Observation of long-range, near-side angular correlations in proton-proton collisions at the LHC. <i>Journal of High Energy Physics</i> , <b>2010</b> , 2010, 1	5.4	389
435	Evidence for top quark production in p-bar-p collisions at $\sqrt{s} = 1.8$ TeV. <i>Physical Review D</i> , <b>1994</b> , 50, 2966-3026	4.9	384
434	Transverse-momentum and pseudorapidity distributions of charged hadrons in pp collisions at square root of $s = 7$ TeV. <i>Physical Review Letters</i> , <b>2010</b> , 105, 022002	7.4	353
433	Study of high-p <sub>T</sub> 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> , <b>2012</b> , 72, 1	4.2	316
432	$J/\psi$ and $\chi_{cS}$ Production in pp Collisions at $\sqrt{s}=1.8$ TeV. <i>Physical Review Letters</i> , <b>1997</b> , 79, 572-577	7.4	278
431	Observation of the B <sub>c</sub> Meson in pp Collisions at $\sqrt{s}=1.8$ TeV. <i>Physical Review Letters</i> , <b>1998</b> , 81, 2432-2437	7.4	242

430	Measurement of the A dependence of deep-inelastic electron scattering. <i>Physical Review D</i> , <b>1994</b> , 49, 4348-4372	4.9	226
429	CDF Run II silicon tracking projects. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2000</b> , 447, 1-8	1.2	225
428	Production of $J/\psi$ Mesons from $B$ Meson Decays in $pp$ Collisions at $\sqrt{s}=1.8\text{TeV}$ . <i>Physical Review Letters</i> , <b>1997</b> , 79, 578-583	7.4	221
427	Measurement of the $t\bar{t}$ production cross section in $pp$ collisions at $\sqrt{s}=1.96\text{ TeV}$ using lepton + jets events with secondary vertex b -tagging. <i>Physical Review D</i> , <b>2005</b> , 71,	4.9	217
426	Double parton scattering in $p\bar{p}$ collisions at $\sqrt{s}=1.8\text{TeV}$ . <i>Physical Review D</i> , <b>1997</b> , 56, 3811-3832	4.9	199
425	Search for supersymmetry at the LHC in events with jets and missing transverse energy. <i>Physical Review Letters</i> , <b>2011</b> , 107, 221804	7.4	188
424	Inclusive Jet Cross Section in $p$ - $\bar{p}$ Collisions at $\sqrt{s}=1.8\text{ TeV}$ . <i>Physical Review Letters</i> , <b>1996</b> , 77, 438-443	4.9	185
423	Suppression of non-prompt $J/\psi$ and $(\Upsilon)(1S)$ in PbPb collisions at $(\sqrt{s_{NN}}) = 2.76\text{ TeV}$ . <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	184
422	Measurement of $J/\psi$ and $\psi(2S)$ polarization in $pp$ collisions at $\sqrt{s} = 1.8\text{ TeV}$ . <i>Physical Review Letters</i> , <b>2000</b> , 85, 2886-91	7.4	171
421	Search for supersymmetry in $pp$ collisions at $7\text{ TeV}$ in events with jets and missing transverse energy. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2011</b> , 698, 196-218	4.2	166
420	Measurement of the antiproton-proton total cross section at $\sqrt{s} = 546\text{ and }1800\text{ GeV}$ . <i>Physical Review D</i> , <b>1994</b> , 50, 5550-5561	4.9	164
419	Centrality dependence of dihadron correlations and azimuthal anisotropy harmonics in PbPb collisions at $(\sqrt{s_{NN}}) = 2.76\text{ TeV}$ . <i>European Physical Journal C</i> , <b>2012</b> , 72, 1	4.2	158
418	Search for New Gauge Bosons Decaying into Dileptons in $p\bar{p}$ Collisions at $\sqrt{s}=1.8\text{TeV}$ . <i>Physical Review Letters</i> , <b>1997</b> , 79, 2192-2197	7.4	140
417	Search for the standard model Higgs boson decaying into two photons in $pp$ collisions at $\sqrt{s}=7\text{TeV}$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 710, 403-425	4.2	138
416	Indications of suppression of excited $B$ states in Pb-Pb collisions at $(\sqrt{s_{NN}})=2.76\text{ TeV}$ . <i>Physical Review Letters</i> , <b>2011</b> , 107, 052302	7.4	137
415	Study of four-jet events and evidence for double parton interactions in $pp$ - $\bar{p}$ collisions at $\sqrt{s} = 1.8\text{ TeV}$ . <i>Physical Review D</i> , <b>1993</b> , 47, 4857-4871	4.9	131
414	Measurement of elastic electron scattering from the proton at high momentum transfer. <i>Physical Review Letters</i> , <b>1986</b> , 57, 174-177	7.4	129
413	Measurement of prompt charm meson production cross sections in $pp$ collisions at square root $\sqrt{s} = 1.96\text{ TeV}$ . <i>Physical Review Letters</i> , <b>2003</b> , 91, 241804	7.4	125

412	Charged jet evolution and the underlying event in proton-antiproton collisions at 1.8 TeV. <i>Physical Review D</i> , <b>2002</b> , 65,	4.9	125
411	Upsilon production and polarization in p p macro collisions at square root of s = 1.8 TeV. <i>Physical Review Letters</i> , <b>2002</b> , 88, 161802	7.4	125
410	Search for Flavor-Changing Neutral Current Decays of the Top Quark in pp Collisions at s=1.8TeV. <i>Physical Review Letters</i> , <b>1998</b> , 80, 2525-2530	7.4	124
409	Blockchain Standards for Compliance and Trust. <i>IEEE Cloud Computing</i> , <b>2017</b> , 4, 84-90		121
408	Measurement of the inclusive W and Z production cross sections in pp collisions at ( $\sqrt{s} = 7$ ) TeV with the CMS experiment. <i>Journal of High Energy Physics</i> , <b>2011</b> , 2011, 1	5.4	121
407	Prompt and non-prompt J/ $\psi$ production in pp collisions at ( $\sqrt{s} = 7$ ) TeV. <i>European Physical Journal C</i> , <b>2011</b> , 71, 1	4.2	118
406	Search for dijet resonances in 7 TeV pp collisions at CMS. <i>Physical Review Letters</i> , <b>2010</b> , 105, 211801	7.4	116
405	Measurement of the B Meson Differential Cross Section $d\sigma/dp_T$ in pp-bar Collisions at $\sqrt{s}=1.8$ TeV. <i>Physical Review Letters</i> , <b>1995</b> , 75, 1451-1455	7.4	116
404	Top quark mass measurement using the template method in the lepton+jets channel at CDF II. <i>Physical Review D</i> , <b>2006</b> , 73,	4.9	112
403	Measurements of elastic electron-proton scattering at large momentum transfer. <i>Physical Review D</i> , <b>1993</b> , 48, 29-55	4.9	112
402	Measurement of isolated photon production in pp and PbPb collisions at $\sqrt{s_{NN}}=2.76$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 710, 256-277	4.2	111
401	Search for neutral Higgs bosons decaying to tau pairs in pp collisions at s=7TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 713, 68-90	4.2	111
400	Search for resonances in the dijet mass spectrum from 7 TeV pp collisions at CMS. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2011</b> , 704, 123-142	4.2	111
399	Diffractive dijets with a leading antiproton in $p\bar{p}$ collisions at $\sqrt{s}$ . <i>Physical Review Letters</i> , <b>2000</b> , 84, 5043-8	7.4	105
398	Measurements of inclusive W and Z cross sections in pp collisions at ( $\sqrt{s} = 7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2011</b> , 2011, 1	5.4	104
397	Measurement of the dipion mass spectrum in decays. <i>Physical Review Letters</i> , <b>2006</b> , 96, 102002	7.4	104
396	Search for charged Higgs bosons from top quark decays in pp collisions at square root s=1.96 TeV. <i>Physical Review Letters</i> , <b>2006</b> , 96, 042003	7.4	101
395	Transverse momentum and total cross section of $e^{(+)}e^{(-)}$ pairs in the Z-boson region from $p\bar{p}$ collisions at $\sqrt{s}$ . <i>Physical Review Letters</i> , <b>2000</b> , 84, 845-50	7.4	101

394	Measurement of $\sin^2\theta_W$ from $B \rightarrow J/\psi K_S^0$ with the CDF detector. <i>Physical Review D</i> , <b>2000</b> , 61,	4.9	100
393	CMS tracking performance results from early LHC operation. <i>European Physical Journal C</i> , <b>2010</b> , 70, 11654-1192	4.9	99
392	CMS Physics Technical Design Report: Addendum on High Density QCD with Heavy Ions. <i>Journal of Physics G: Nuclear and Particle Physics</i> , <b>2007</b> , 34, 2307-2455	2.9	99
391	Search for new particles decaying to dijets at CDF. <i>Physical Review D</i> , <b>1997</b> , 55, R5263-R5268	4.9	98
390	First measurements of inclusive W and Z cross sections from run II of the Fermilab Tevatron collider. <i>Physical Review Letters</i> , <b>2005</b> , 94, 091803	7.4	97
389	Production of Upsilon(1S) mesons from $\chi(b)$ decays in $p\bar{p}$ collisions at $\sqrt{s}$ . <i>Physical Review Letters</i> , <b>2000</b> , 84, 2094-9	7.4	97
388	Measurement of $p\bar{p}$ single diffraction dissociation at $\sqrt{s} = 546$ and 1800 GeV. <i>Physical Review D</i> , <b>1994</b> , 50, 5535-5549	4.9	96
387	Measurement of Double Parton Scattering in $p\bar{p}$ Collisions at $\sqrt{s} = 1.8$ TeV. <i>Physical Review Letters</i> , <b>1997</b> , 79, 584-589	7.4	95
386	Missing transverse energy performance of the CMS detector. <i>Journal of Instrumentation</i> , <b>2011</b> , 6, P09001-P09004	7.4	94
385	Measurement of the inclusive jet cross section in pp collisions at $\sqrt{s} = 7$ TeV. <i>Physical Review Letters</i> , <b>2011</b> , 107, 132001	7.4	94
384	Precision measurement of the prompt photon cross section in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV. <i>Physical Review Letters</i> , <b>1994</b> , 73, 2662-2666	7.4	91
383	Charged particle multiplicities in pp interactions at ( $\sqrt{s} = 0.9$ ), 2.36, and 7 TeV. <i>Journal of High Energy Physics</i> , <b>2011</b> , 2011, 1	5.4	89
382	Measurement of the W boson mass. <i>Physical Review D</i> , <b>1995</b> , 52, 4784-4827	4.9	89
381	Inclusive $\chi_c$ and b-quark production in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV. <i>Physical Review Letters</i> , <b>1993</b> , 71, 2537-2541	7.4	89
380	Search for doubly charged Higgs bosons decaying to dileptons in pp collisions at square root of $s = 1.96$ TeV. <i>Physical Review Letters</i> , <b>2004</b> , 93, 221802	7.4	88
379	Search for Charged Higgs Boson Decays of the Top Quark using Hadronic Decays of the Tau Lepton. <i>Physical Review Letters</i> , <b>1997</b> , 79, 357-362	7.4	87
378	Measurement of $W+W\bar{W}$ production and search for the Higgs boson in pp collisions at $\sqrt{s} = 7$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2011</b> , 699, 25-47	4.2	86
377	Search for the standard model Higgs boson in the decay channel $H \rightarrow ZZ \rightarrow 4\ell$ in pp collisions at $\sqrt{s} = 7$ TeV. <i>Physical Review Letters</i> , <b>2012</b> , 108, 111804	7.4	85

376	Search for the standard model Higgs boson decaying to $\tau\tau$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 710, 91-113	4.2	83
375	Performance of $\tau$ -lepton reconstruction and identification in CMS. <i>Journal of Instrumentation</i> , <b>2012</b> , 7, P01001-P01001	1	81
374	First measurement of the cross section for top-quark pair production in proton-proton collisions at $\sqrt{s}=7\text{TeV}$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2011</b> , 695, 424-443	4.2	79
373	Observation of Diffractive W-Boson Production at the Fermilab Tevatron. <i>Physical Review Letters</i> , <b>1997</b> , 78, 2698-2703	7.4	78
372	Measurement of bottom-quark hadron masses in exclusive $J/\psi$ decays with the CDF detector. <i>Physical Review Letters</i> , <b>2006</b> , 96, 202001	7.4	78
371	Measurement of the rapidity and transverse momentum distributions of Z bosons in pp collisions at $\sqrt{s}=7\text{ TeV}$ . <i>Physical Review D</i> , <b>2012</b> , 85,	4.9	77
370	Upsilon production cross section in pp collisions at $\sqrt{s}=7\text{ TeV}$ . <i>Physical Review D</i> , <b>2011</b> , 83,	4.9	77
369	Upsilon production in pp-bar collisions at $\sqrt{s}=1.8\text{ TeV}$ . <i>Physical Review Letters</i> , <b>1995</b> , 75, 4358-4363	7.4	77
368	Search for gluinos and scalar quarks in pp collisions at square root $\sqrt{s} = 1.8\text{ TeV}$ using the missing energy plus multijets signature. <i>Physical Review Letters</i> , <b>2002</b> , 88, 041801	7.4	73
367	Measurement of the Top Quark Mass and $t\bar{t}$ Production Cross Section from Dilepton Events at the Collider Detector at Fermilab. <i>Physical Review Letters</i> , <b>1998</b> , 80, 2779-2784	7.4	73
366	A new boson with a mass of 125 GeV observed with the CMS experiment at the Large Hadron Collider. <i>Science</i> , <b>2012</b> , 338, 1569-75	33.3	71
365	Measurement of the underlying event activity at the LHC with $(\sqrt{s} = 7\text{ TeV})$ and comparison with $(\sqrt{s} = 0.9\text{ TeV})$ . <i>Journal of High Energy Physics</i> , <b>2011</b> , 2011, 1	5.4	70
364	Measurement of Dijet Angular Distributions by the Collider Detector at Fermilab. <i>Physical Review Letters</i> , <b>1996</b> , 77, 5336-5341	7.4	70
363	$J/\psi$ and $\psi(2S)$ production in pp collisions at $(\sqrt{s} = 7\text{TeV})$ . <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	69
362	Measurement of Diffractive Dijet Production at the Fermilab Tevatron. <i>Physical Review Letters</i> , <b>1997</b> , 79, 2636-2641	7.4	69
361	Evidence for the exclusive decay $B(c)^+ \rightarrow J/\psi \pi^+$ and measurement of the mass of the $B(c)^+$ meson. <i>Physical Review Letters</i> , <b>2006</b> , 96, 082002	7.4	69
360	Limits on Quark-Lepton Compositeness Scales from Dileptons Produced in 1.8 TeV pp Collisions. <i>Physical Review Letters</i> , <b>1997</b> , 79, 2198-2203	7.4	68
359	Measurement of the Top Quark Mass with the Collider Detector at Fermilab. <i>Physical Review Letters</i> , <b>1999</b> , 82, 271-276	7.4	68

358	Measurements of R and a search for heavy-quark production in e+e- annihilation at $\sqrt{s}=50$ and 52 GeV. <i>Physical Review Letters</i> , <b>1988</b> , 60, 93-96	7.4	67
357	Study of Z Boson Production in PbPb Collisions at $\sqrt{NN}=2.76$ TeV. <i>Physical Review Letters</i> , <b>2011</b> , 106, 212301	7.4	66
356	Measurement of the Lepton Charge Asymmetry in W-Boson Decays Produced in pp Collisions. <i>Physical Review Letters</i> , <b>1998</b> , 81, 5754-5759	7.4	65
355	Measurement of bottom quark production in 1.8 TeV pp-bar collisions using muons from b-quark decays. <i>Physical Review Letters</i> , <b>1993</b> , 71, 2396-2400	7.4	65
354	Measurement of bb production correlations, $B^0B^0$ mixing, and a limit on $B$ in pp collisions at $s=1.8$ TeV. <i>Physical Review D</i> , <b>1997</b> , 55, 2546-2558	4.9	64
353	Observation of rapidity gaps in p-barp collisions at 1.8 TeV. <i>Physical Review Letters</i> , <b>1995</b> , 74, 855-859	7.4	64
352	Search for neutral minimal supersymmetric standard model Higgs bosons decaying to tau pairs in pp collisions at $\sqrt{s}=7$ TeV. <i>Physical Review Letters</i> , <b>2011</b> , 106, 231801	7.4	63
351	Measurement of the t-channel single top quark production cross section in pp collisions at $\sqrt{s}=7$ TeV. <i>Physical Review Letters</i> , <b>2011</b> , 107, 091802	7.4	63
350	Underlying event in hard interactions at the Fermilab Tevatron p-p collider. <i>Physical Review D</i> , <b>2004</b> , 70,	4.9	62
349	Search for microscopic black hole signatures at the Large Hadron Collider. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2011</b> , 697, 434-453	4.2	61
348	First Observation of the All-Hadronic Decay of tt Pairs. <i>Physical Review Letters</i> , <b>1997</b> , 79, 1992-1997	7.4	61
347	Search for neutral Higgs bosons of the minimal supersymmetric standard model decaying to tau pairs in pp collisions at square root of $s = 1.96$ TeV. <i>Physical Review Letters</i> , <b>2006</b> , 96, 011802	7.4	61
346	Measurement of the forward-backward charge asymmetry from $W \rightarrow e\bar{\nu}$ production in pp collisions at $s=1.96$ TeV. <i>Physical Review D</i> , <b>2005</b> , 71,	4.9	61
345	Prompt photon cross section measurement in p-barp collisions at $\sqrt{s}=1.8$ TeV. <i>Physical Review D</i> , <b>1993</b> , 48, 2998-3025	4.9	61
344	Multihadron-event properties in e+e- annihilation at $\sqrt{s}=52-57$ GeV. <i>Physical Review D</i> , <b>1990</b> , 41, 2675-2688	4.9	60
343	Measurement of the charge asymmetry in top-quark pair production in proton-proton collisions at $s=7$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 709, 28-49	4.2	59
342	Measurement of the $B(+)$ production cross section in pp collisions at $\sqrt{s}=7$ TeV. <i>Physical Review Letters</i> , <b>2011</b> , 106, 112001	7.4	59
341	Search for the decays $B_d^0 \rightarrow \mu^+\mu^-$ and $B_s^0 \rightarrow \mu^+\mu^-$ in pp collisions at $s=1.8$ TeV. <i>Physical Review D</i> , <b>1998</b> , 57, R3811-R3816	4.9	59

340	Dijet Production by Color-Singlet Exchange at the Fermilab Tevatron. <i>Physical Review Letters</i> , <b>1998</b> , 80, 1156-1161	7.4	59
339	Measurement of $\sigma_B(W \rightarrow e \nu)$ and $\sigma_B(Z^0 \rightarrow e^+e^-)$ in pp-bar collisions at $\sqrt{s}=1.8$ TeV. <i>Physical Review Letters</i> , <b>1996</b> , 76, 3070-3075	7.4	59
338	When to Use Standards-Based APIs (Part 1). <i>IEEE Cloud Computing</i> , <b>2015</b> , 2, 76-80		58
337	Study of jet shapes in inclusive jet production in pp collisions at $\sqrt{s}=1.96$ TeV. <i>Physical Review D</i> , <b>2005</b> , 71,	4.9	58
336	Search for the standard model Higgs boson decaying to bottom quarks in pp collisions at $\sqrt{s}=7$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 710, 284-306	4.2	57
335	Measurement of the isolated prompt photon production cross section in pp collisions at $\sqrt{s}=7$ TeV. <i>Physical Review Letters</i> , <b>2011</b> , 106, 082001	7.4	57
334	Search for $B^0_s \rightarrow \mu^+\mu^-$ and $B^0_d \rightarrow \mu^+\mu^-$ decays in pp collisions at square root $s = 1.96$ TeV. <i>Physical Review Letters</i> , <b>2004</b> , 93, 032001	7.4	57
333	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> , <b>2011</b> , 2011, 1	5.4	56
332	Search for new particles decaying to dijets in pp-bar collisions at $\sqrt{s}=1.8$ TeV. <i>Physical Review Letters</i> , <b>1995</b> , 74, 3538-3543	7.4	56
331	Charge asymmetry in W-boson decays produced in pp-bar collisions at $\sqrt{s}=1.8$ TeV. <i>Physical Review Letters</i> , <b>1995</b> , 74, 850-854	7.4	56
330	Experimental evidence for the non-Abelian nature of QCD from a study of multijet events produced in $e^+e^-$ annihilation. <i>Physical Review Letters</i> , <b>1989</b> , 62, 1713-1716	7.4	56
329	Search for signatures of extra dimensions in the diphoton mass spectrum at the large hadron collider. <i>Physical Review Letters</i> , <b>2012</b> , 108, 111801	7.4	53
328	Search for a vectorlike quark with charge 2/3 in $t+Z$ events from pp collisions at $\sqrt{s}=7$ TeV. <i>Physical Review Letters</i> , <b>2011</b> , 107, 271802	7.4	53
327	Measurement of the W boson mass with the Collider Detector at Fermilab. <i>Physical Review D</i> , <b>2001</b> , 64,	4.9	52
326	Limits on WWZ and WW gamma couplings from WW and WZ production in pp-bar collisions at $\sqrt{s}=1.8$ TeV. <i>Physical Review Letters</i> , <b>1995</b> , 75, 1017-1022	7.4	51
325	Measurement of the lifetime difference between $B_s$ mass eigenstates. <i>Physical Review Letters</i> , <b>2005</b> , 94, 101803	7.4	50
324	Search for neutral supersymmetric Higgs bosons in pp collisions at $\sqrt{s}=1.8$ TeV. <i>Physical Review Letters</i> , <b>2001</b> , 86, 4472-8	7.4	50
323	Measurement of the top quark mass with the collider detector at Fermilab. <i>Physical Review D</i> , <b>2001</b> , 63,	4.9	50



322	Search for new physics with a monojet and missing transverse energy in pp collisions at $\sqrt{s} = 7$ TeV. <i>Physical Review Letters</i> , <b>2011</b> , 107, 201804	7.4	49
321	Search for Third Generation Leptoquarks in p <p>Collisions at <math>s=1.8</math>TeV. <i>Physical Review Letters</i>, <b>1997</b>, 78, 2906-2911</p>	7.4	49
320	Dijet production by double pomeron exchange at the fermilab tevatron. <i>Physical Review Letters</i> , <b>2000</b> , 85, 4215-20	7.4	49
319	Search for scalar top and scalar bottom quarks in pp collisions at square root $s=1.8$ TeV. <i>Physical Review Letters</i> , <b>2000</b> , 84, 5704-9	7.4	49
318	Measurement of the B0 production cross section in pp collisions at $\sqrt{s} = 7$ TeV. <i>Physical Review Letters</i> , <b>2011</b> , 106, 252001	7.4	48
317	Dijet azimuthal decorrelations in pp collisions at $\sqrt{s}=7$ TeV. <i>Physical Review Letters</i> , <b>2011</b> , 106, 122003	7.4	48
316	Comparison of the isolated direct photon cross sections in pp collisions at $s=1.8$ TeV and $s=0.63$ TeV. <i>Physical Review D</i> , <b>2002</b> , 65,	4.9	47
315	The Design and Architecture of Microservices. <i>IEEE Cloud Computing</i> , <b>2016</b> , 3, 76-80		46
314	Search for new physics with jets and missing transverse momentum in pp collisions at ( $\sqrt{s} = 7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2011</b> , 2011, 1	5.4	46
313	Search for gluinos and squarks at the Fermilab Tevatron collider. <i>Physical Review D</i> , <b>1997</b> , 56, R1357-R1362	7.4	46
312	The composition of cosmic rays at the knee. <i>Astroparticle Physics</i> , <b>2002</b> , 18, 129-150	2.4	46
311	Search for long-lived charged massive particles in pp collisions at square root $s = 1.8$ TeV. <i>Physical Review Letters</i> , <b>2003</b> , 90, 131801	7.4	46
310	Measurement of the helicity of W bosons in top quark decays. <i>Physical Review Letters</i> , <b>2000</b> , 84, 216-21	7.4	46
309	Exclusive $\bar{p} \rightarrow \bar{n} \pi^0$ production in proton-proton collisions at ( $\sqrt{s} = 7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	45
308	Measurement of dijet angular distributions and search for quark compositeness in pp collisions at $\sqrt{s} = 7$ TeV. <i>Physical Review Letters</i> , <b>2011</b> , 106, 201804	7.4	45
307	Measurement of the differential cross section for isolated prompt photon production in pp collisions at 7 TeV. <i>Physical Review D</i> , <b>2011</b> , 84,	4.9	45
306	Search for supersymmetry in pp collisions at $\sqrt{s}$ TeV in events with two photons and missing transverse energy. <i>Physical Review Letters</i> , <b>2011</b> , 106, 211802	7.4	45
305	Leading-order perturbative QCD calculation of nucleon Dirac form factors. <i>Physical Review D</i> , <b>1987</b> , 36, 165-175	4.9	45

304	Charged particle transverse momentum spectra in pp collisions at ( $\sqrt{s} = 0.9$ ) and 7 TeV. <i>Journal of High Energy Physics</i> , <b>2011</b> , 2011, 1	5-4	44
303	First measurement of Bose-Einstein correlations in proton-proton collisions at $\sqrt{s}=0.9$ and 2.36 TeV at the LHC. <i>Physical Review Letters</i> , <b>2010</b> , 105, 032001	7-4	44
302	Measurement of the $t\bar{t}$ production cross section in pp collisions at 7 TeV in lepton+jets events using b-quark jet identification. <i>Physical Review D</i> , <b>2011</b> , 84,	4-9	44
301	Measurement of the differential dijet production cross section in proton-proton collisions at $\sqrt{s}=7$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2011</b> , 700, 187-206	4-2	44
300	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> , <b>2011</b> , 107, 191802	7-4	44
299	Search for First Generation Leptoquark Pair Production in pp Collisions at $\sqrt{s}=1.8$ TeV. <i>Physical Review Letters</i> , <b>1997</b> , 79, 4327-4332	7-4	44
298	Measurement of B hadron lifetimes using $J/\psi$ final states at CDF. <i>Physical Review D</i> , <b>1998</b> , 57, 5382-5401	4-9	44
297	Measurement of the weak mixing angle with the Drell-Yan process in proton-proton collisions at the LHC. <i>Physical Review D</i> , <b>2011</b> , 84,	4-9	42
296	Search for single-top-quark production in pp collisions at $\sqrt{s}=1.8$ TeV. <i>Physical Review D</i> , <b>2002</b> , 65,	4-9	42
295	Searches for New Physics in Diphoton Events in pp Collisions at $\sqrt{s}=1.8$ TeV. <i>Physical Review Letters</i> , <b>1998</b> , 81, 1791-1796	7-4	42
294	Search for the Flavor-Changing Neutral Current Decays $B^+ \rightarrow \mu^+\mu^0$ and $B^0 \rightarrow \mu^+\mu^-$ . <i>Physical Review Letters</i> , <b>1999</b> , 83, 3378-3383	7-4	42
293	Search for charged bosons heavier than the W boson in pp collisions at $\sqrt{s}=1800$ GeV. <i>Physical Review Letters</i> , <b>1995</b> , 74, 2900-2904	7-4	42
292	Comparison of jet production in p-p collisions at $\sqrt{s}=546$ and 1800 GeV. <i>Physical Review Letters</i> , <b>1993</b> , 70, 1376-1380	7-4	42
291	Combination of CDF and D0 results on the W boson mass and width. <i>Physical Review D</i> , <b>2004</b> , 70,	4-9	41
290	Observation of diffractive b-quark production at the fermilab tevatron. <i>Physical Review Letters</i> , <b>2000</b> , 84, 232-7	7-4	41
289	Measurement of the $t\bar{t}$ Production Cross Section in pp Collisions at $\sqrt{s}=1.8$ TeV. <i>Physical Review Letters</i> , <b>1998</b> , 80, 2773-2778	7-4	41
288	Charged-particle multiplicities in e+e- annihilations at $\sqrt{s}=50-61.4$ GeV. <i>Physical Review D</i> , <b>1990</b> , 42, 737-747	4-9	41
287	Inclusive search for squarks and gluinos in pp collisions at $\sqrt{s}=7$ TeV. <i>Physical Review D</i> , <b>2012</b> , 85,	4-9	40

286	Soft and hard interactions in pp collisions at $\sqrt{s}=1800$ and 630 GeV. <i>Physical Review D</i> , <b>2002</b> , 65,	4.9	40
285	Searches for new physics in diphoton events in pp collisions at $\sqrt{s}=1.8$ TeV. <i>Physical Review D</i> , <b>1999</b> , 59,	4.9	40
284	Measurement of correlated micro-b-bar jet cross sections in pp-bar collisions at $\sqrt{s}=1.8$ TeV. <i>Physical Review D</i> , <b>1996</b> , 53, 1051-1065	4.9	40
283	Search for same-sign top-quark pair production at ( $\sqrt{s} = 7$ ) TeV and limits on flavour changing neutral currents in the top sector. <i>Journal of High Energy Physics</i> , <b>2011</b> , 2011, 1	5.4	39
282	Search for new high-mass particles decaying to Lepton pairs in pp collisions at square root $s = 1.96$ TeV. <i>Physical Review Letters</i> , <b>2005</b> , 95, 252001	7.4	39
281	Measurement of W and Z production in pp collisions at . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2011</b> , 701, 535-555	4.2	38
280	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> , <b>2011</b> , 2011, 1	5.4	38
279	Search for stopped Gluinos in pp collisions at square root $s=7$ TeV. <i>Physical Review Letters</i> , <b>2011</b> , 106, 011801	7.4	38
278	Observation of $B^0 \rightarrow J/\psi K^0$ at the Fermilab proton-antiproton collider. <i>Physical Review D</i> , <b>1997</b> , 55, 1142-1152.	4.9	38
277	Measurement of $B(t \rightarrow Wb)/B(t \rightarrow Wq)$ at the collider detector at fermilab. <i>Physical Review Letters</i> , <b>2005</b> , 95, 102002	7.4	38
276	Search for new physics using high-mass tau pairs from 1.96 TeV pp collisions. <i>Physical Review Letters</i> , <b>2005</b> , 95, 131801	7.4	38
275	Jet production rates in association with W and Z bosons in pp collisions at ( $\sqrt{s} = 7$ {text{TeV}}). <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	37
274	Measurement of the polarization of W bosons with large transverse momenta in W + jets events at the LHC. <i>Physical Review Letters</i> , <b>2011</b> , 107, 021802	7.4	37
273	Direct search for Dirac magnetic monopoles in pp collisions at square root $s = 1.96$ TeV. <i>Physical Review Letters</i> , <b>2006</b> , 96, 201801	7.4	37
272	Search for quark-lepton compositeness and a heavy $W'$ Boson using the $e\nu$ channel in p p collisions at square root of $[s] = 1.8$ TeV. <i>Physical Review Letters</i> , <b>2001</b> , 87, 231803	7.4	37
271	Limits on extra dimensions and new particle production in the exclusive photon and missing energy signature in pp collisions at square root $[s]=1.8$ TeV. <i>Physical Review Letters</i> , <b>2002</b> , 89, 281801	7.4	37
270	Measurement of the $B^0 \rightarrow B^0$ Oscillation Frequency Using $B$ Meson Charge-Flavor Correlations in pp collisions at $\sqrt{s}=1.8$ TeV. <i>Physical Review Letters</i> , <b>1998</b> , 80, 2057-2062	7.4	37
269	First measurement of the underlying event activity at the LHC with ( $\sqrt{s} = 0.9$ ) TeV. <i>European Physical Journal C</i> , <b>2010</b> , 70, 555-572	4.2	36

268	Evidence for $W+W$ Production in $p\bar{p}$ Collisions at $\sqrt{s}=1.8\text{TeV}$ . <i>Physical Review Letters</i> , <b>1997</b> , 78, 4536-4540	7.4	36
267	Momentum distribution of charged particles in jets in dijet events in $pp$ collisions at $\sqrt{s}=1.8\text{TeV}$ and comparisons to perturbative QCD predictions. <i>Physical Review D</i> , <b>2003</b> , 68,	4.9	36
266	Measurement of partial widths and search for direct CP violation in $D_0$ meson decays to $K-K^+$ and $\pi-\pi^+$ . <i>Physical Review Letters</i> , <b>2005</b> , 94, 122001	7.4	36
265	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> , <b>2011</b> , 71, 1	4.2	35
264	Search for quark compositeness with the dijet centrality ratio in $pp$ collisions at $\sqrt{s}=7$ TeV. <i>Physical Review Letters</i> , <b>2010</b> , 105, 262001	7.4	35
263	First measurement of hadronic event shapes in $pp$ collisions at $\sqrt{s}=7\text{TeV}$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2011</b> , 699, 48-67	4.2	35
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261	Measurement of the strong coupling constant from inclusive jet production at the Tevatron $pp$ collider. <i>Physical Review Letters</i> , <b>2002</b> , 88, 042001	7.4	35
260	Search for the charged Higgs boson in the decays of top quark pairs in the $e\bar{e}$ and $\mu\bar{\mu}$ channels at $\sqrt{s}=1.8$ TeV. <i>Physical Review D</i> , <b>2000</b> , 62,	4.9	35
259	Search for new particles decaying to $t\bar{t}$ in $p\bar{p}$ collisions at $\sqrt{s}=1.8$ TeV. <i>Physical Review Letters</i> , <b>2000</b> , 85, 2062-7	7.4	35
258	Search for gluino and squark cascade decays at the Fermilab Tevatron collider. <i>Physical Review Letters</i> , <b>1996</b> , 76, 2006-2010	7.4	35
257	Search for microscopic black holes in $pp$ collisions at $(\sqrt{s} = 7\text{TeV})$ . <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	34
256	Identification and filtering of uncharacteristic noise in the CMS hadron calorimeter. <i>Journal of Instrumentation</i> , <b>2010</b> , 5, T03014-T03014	1	34
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254	Measurement of the cross section for $t\bar{t}$ production in $pp$ collisions using the kinematics of lepton+jets events. <i>Physical Review D</i> , <b>2005</b> , 72,	4.9	34
253	Double diffraction dissociation at the Fermilab Tevatron collider. <i>Physical Review Letters</i> , <b>2001</b> , 87, 141802	7.4	34
252	Evidence for color coherence in $pp$ collisions at $\sqrt{s}=1.8$ TeV. <i>Physical Review D</i> , <b>1994</b> , 50, 5562-5579	4.9	34
251	Measurement of the CP-Violation Parameter $\sin(2\beta)$ in $B_d^0/B_d^0 \rightarrow J/\psi K_S^0$ Decays. <i>Physical Review Letters</i> , <b>1998</b> , 81, 5513-5518	7.4	33

250	Measurement of the inclusive jet cross section using the kT algorithm in pp collisions at (square root s)=1.96 TeV. <i>Physical Review Letters</i> , <b>2006</b> , 96, 122001	7.4	33
249	Search for [corrected] B0(s) --> mu+ mu- and B0(d) [corrected] --> mu + mu- decays in pp collisions with CDF II. <i>Physical Review Letters</i> , <b>2005</b> , 95, 221805	7.4	33
248	Measurement of the cross section for prompt diphoton production in pp collisions at square root of s=1.96 TeV. <i>Physical Review Letters</i> , <b>2005</b> , 95, 022003	7.4	33
247	Limits on Z-photon couplings from p-p-bar interactions at sqrt s=1.8TeV. <i>Physical Review Letters</i> , <b>1995</b> , 74, 1941-1945	7.4	33
246	Search for resonances in the dilepton mass distribution in pp collisions at ( sqrt {s} = 7 ) TeV. <i>Journal of High Energy Physics</i> , <b>2011</b> , 2011, 1	5.4	32
245	Search for supersymmetry in pp collisions at ( sqrt {s} = 7 ) TeV in events with a single lepton, jets, and missing transverse momentum. <i>Journal of High Energy Physics</i> , <b>2011</b> , 2011, 1	5.4	32
244	Measurement of the Drell-Yan cross section in pp collisions at ( sqrt {s} = 7 ) TeV. <i>Journal of High Energy Physics</i> , <b>2011</b> , 2011, 1	5.4	32
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240	Measurement of the Bs0 Production Cross Section with Bs0->J/ψ Decays in pp Collisions at s=7 TeV. <i>Physical Review D</i> , <b>2011</b> , 84,	4.9	31
239	Performance and operation of the CMS electromagnetic calorimeter. <i>Journal of Instrumentation</i> , <b>2010</b> , 5, T03010-T03010	1	31
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237	The SVX3D integrated circuit for dead-timeless silicon strip readout. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>1999</b> , 435, 58-64	1.2	31
236	Inclusive b-jet production in pp collisions at (sqrt {s} = 7TeV). <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	30
235	Measurement of the underlying event in the Drell-Yan process in proton-proton collisions at (sqrt{s} = 7 TeV). <i>European Physical Journal C</i> , <b>2012</b> , 72, 1	4.2	30
234	The hadron decays of Top Quark Pairs Produced in pp Collisions at s=1.8TeV. <i>Physical Review Letters</i> , <b>1997</b> , 79, 3585-3590	7.4	30
233	Precision top-quark mass measurement in the lepton+jets topology in p p collisions at square root s=1.96 TeV. <i>Physical Review Letters</i> , <b>2006</b> , 96, 022004	7.4	30

232	Measurement of the inclusive jet cross section in pp interactions at $\sqrt{s}=1.96$ TeV using a cone-based jet algorithm. <i>Physical Review D</i> , <b>2006</b> , 74,	4.9	30
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230	Events with a Rapidity Gap between Jets in p-p Collisions at $\sqrt{s}=630$ GeV. <i>Physical Review Letters</i> , <b>1998</b> , 81, 5278-5283	7.4	30
229	Search for first-generation leptoquarks in p-p collisions at $\sqrt{s}=1.8$ TeV. <i>Physical Review D</i> , <b>1993</b> , 48, R3939-R3944	4.9	30
228	Measurement of the cross section for production of two isolated prompt photons in p-p collisions at $\sqrt{s}=1.8$ TeV. <i>Physical Review Letters</i> , <b>1993</b> , 70, 2232-2236	7.4	30
227	Measurement of the ratio $\sigma(B \rightarrow W e \nu) / \sigma(B \rightarrow Z e e)$ in p-p collisions at $\sqrt{s}=1.8$ TeV. <i>Physical Review Letters</i> , <b>1994</b> , 73, 220-224	7.4	30
226	Performance of CMS muon reconstruction in cosmic-ray events. <i>Journal of Instrumentation</i> , <b>2010</b> , 5, T03022-T03022	4.9	29
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224	Search for excited quarks in p-p collisions at $\sqrt{s}=1.8$ TeV. <i>Physical Review Letters</i> , <b>1994</b> , 72, 3004-3008	7.4	29
223	Search for physics beyond the standard model using multilepton signatures in . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2011</b> , 704, 411-433	4.2	28
222	Search for supersymmetry in events with b jets and missing transverse momentum at the LHC. <i>Journal of High Energy Physics</i> , <b>2011</b> , 2011, 1	5.4	28
221	Search for a heavy bottom-like quark in pp collisions at . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2011</b> , 701, 204-223	4.2	28
220	Measurement of the $t\bar{t}$ production cross section in pp collisions at $\sqrt{s}=1.96$ TeV using kinematic fitting of b-tagged lepton+jet events. <i>Physical Review D</i> , <b>2005</b> , 71,	4.9	28
219	Search for second and third generation leptoquarks including production via technicolor interactions in p-p collisions at $\sqrt{s}=1.8$ TeV. <i>Physical Review Letters</i> , <b>2000</b> , 85, 2056-61	7.4	28
218	Measurement of b-quark fragmentation fractions in p-p collisions at $\sqrt{s}=1.8$ TeV. <i>Physical Review Letters</i> , <b>2000</b> , 84, 1663-8	7.4	28
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213	Shape, transverse size, and charged-hadron multiplicity of jets in pp collisions at ( $\sqrt{s}=7$ ;TeV). <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5-4 27
212	Measurement of ( $\overline{\text{B}}\text{B}$ ) angular correlations based on secondary vertex reconstruction at ( $\sqrt{s} = 7, \text{TeV}$ ). <i>Journal of High Energy Physics</i> , <b>2011</b> , 2011, 1	5-4 27
211	Measurement of the moments of the hadronic invariant mass distribution in semileptonic B decays. <i>Physical Review D</i> , <b>2005</b> , 71,	4-9 27
210	Production of $\chi(c1)$ and $\chi(c2)$ in pp collisions at $\sqrt{S} = 1.8$ TeV. <i>Physical Review Letters</i> , <b>2001</b> , 86, 3963-8	7-4 27
209	Search for isolated leptons in low-thrust e+e- annihilation events at $\sqrt{s} = 50$ and 52 GeV. <i>Physical Review Letters</i> , <b>1988</b> , 60, 2359-2362	7-4 27
208	Search for a heavy gauge boson . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2011</b> , 698, 21-39	4-2 26
207	Search for a . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2011</b> , 701, 160-179	4-2 26
206	Measurement of $d\sigma/dM$ and forward-backward charge asymmetry for high-mass Drell-Yan $e^{+}e^{-}$ pairs from pp macro collisions at square root of $s = 1.8$ TeV. <i>Physical Review Letters</i> , <b>2001</b> , 87, 131802	7-4 26
205	Search for scalar top quark production in $p\bar{p}$ collisions at $\sqrt{s}$ . <i>Physical Review Letters</i> , <b>2000</b> , 84, 5273-8	7-4 26
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203	Measurement of $\Lambda_b$ Lifetime Using $\Lambda_b \rightarrow \Lambda + c$ . <i>Physical Review Letters</i> , <b>1996</b> , 77, 1439-1443	7-4 26
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201	Measurements of bottom-antibottom azimuthal production correlations in proton-antiproton collisions at $s=1.8$ TeV. <i>Physical Review D</i> , <b>2005</b> , 71,	4-9 25
200	Search for excited and exotic electrons in the $e\gamma$ decay channel in pp collisions at $\sqrt{s} = 1.96$ TeV. <i>Physical Review Letters</i> , <b>2005</b> , 94, 101802	7-4 25
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198	Measurement of the $Z/\gamma + b$ -jet cross section in pp collisions at ( $\sqrt{s} = 7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5-4 24
197	Search for first-generation scalar leptoquarks in $pp$ collisions at $s=1.96$ TeV. <i>Physical Review D</i> , <b>2005</b> , 72,	4-9 24

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194	Properties of high-mass multijet events at the Fermilab proton-antiproton collider. <i>Physical Review Letters</i> , <b>1995</b> , 75, 608-612	7.4	24
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192	Comparison of quark and gluon jets produced in high-energy e+e- annihilations. <i>Physical Review Letters</i> , <b>1989</b> , 63, 1772-1775	7.4	24
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183	Measurement of the ratio of b quark production cross sections in p p collisions at s=630 GeV and s=1800 GeV. <i>Physical Review D</i> , <b>2002</b> , 66,	4.9	22
182	Identification of top quarks using kinematic variables. <i>Physical Review D</i> , <b>1995</b> , 52, R2605-R2609	4.9	22
181	Measurement of the polarization in the decays Bd-->J/ psi K*0 and Bs-->J/ psi phi. <i>Physical Review Letters</i> , <b>1995</b> , 75, 3068-3072	7.4	22
180	Search for second generation leptoquarks in pp-bar collisions at sqrt s=1.8 TeV. <i>Physical Review Letters</i> , <b>1995</b> , 75, 1012-1016	7.4	22
179	Reconstruction of B0-->J/ psi K0S and measurement of ratios of branching ratios involving B-->J/ psi K* and B+-->J/ psi K+. <i>Physical Review Letters</i> , <b>1996</b> , 76, 2015-2020	7.4	22



178	Search for a Higgs boson in the decay channel $H \rightarrow ZZ^{(*)} \rightarrow q(\overline{q}) \mu\mu$ in pp collisions at $(\sqrt{s} = 7) \text{ TeV}$ . <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	21
177	Inclusive b-hadron production cross section with muons in pp collisions at $(\sqrt{s} = 7; \text{TeV})$ . <i>Journal of High Energy Physics</i> , <b>2011</b> , 2011, 1	5.4	21
176	Search for New Particles Decaying into $b\bar{b}$ and Produced in Association with W Bosons Decaying into $e\bar{\nu}_e$ at the Fermilab Tevatron. <i>Physical Review Letters</i> , <b>1997</b> , 79, 3819-3824	7.4	21
175	Top-quark mass measurement from dilepton events at CDF II. <i>Physical Review Letters</i> , <b>2006</b> , 96, 152002	7.4	21
174	Search for anomalous production of diphoton events with missing transverse energy at CDF and limits on gauge-mediated supersymmetry-breaking models. <i>Physical Review D</i> , <b>2005</b> , 71,	4.9	21
173	Search for second-generation scalar leptoquarks in pp collisions at $s = 1.96 \text{ TeV}$ . <i>Physical Review D</i> , <b>2006</b> , 73,	4.9	21
172	Search for Kaluza-Klein graviton emission in pp collisions at $\sqrt{s} = 1.8 \text{ TeV}$ using the missing energy signature. <i>Physical Review Letters</i> , <b>2004</b> , 92, 121802	7.4	21
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170	Search for New Particles Decaying to $b\bar{b}$ in pp Collisions at $\sqrt{s} = 1.8 \text{ TeV}$ . <i>Physical Review Letters</i> , <b>1999</b> , 82, 2038-2043	7.4	21
169	Measurement of $B^0\bar{B}^0$ flavor oscillations using jet-charge and lepton flavor tagging in pp collisions at $s = 1.8 \text{ TeV}$ . <i>Physical Review D</i> , <b>1999</b> , 60,	4.9	21
168	Particle identification in the longitudinally unsegmented RD52 calorimeter. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2014</b> , 735, 120-129	1.2	20
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166	Search for a $W'$ boson decaying to a top and bottom quark pair in 1.8 TeV pp collisions. <i>Physical Review Letters</i> , <b>2003</b> , 90, 081802	7.4	20
165	Measurement of the top quark $p(T)$ distribution. <i>Physical Review Letters</i> , <b>2001</b> , 87, 102001	7.4	20
164	Direct measurement of the W boson width in $p\bar{p}$ collisions at $\sqrt{s} = 1.8 \text{ TeV}$ . <i>Physical Review Letters</i> , <b>2000</b> , 85, 3347-52	7.4	20
163	Measurement of the $B^0\bar{B}^0$ flavor oscillation frequency and study of same side flavor tagging of B mesons in pp collisions. <i>Physical Review D</i> , <b>1998</b> , 59,	4.9	19
162	Search for $B_s^0\bar{B}_s^0$ Oscillations Using the Semileptonic Decay $B_s^0 \rightarrow \mu^+\mu^- X$ . <i>Physical Review Letters</i> , <b>1999</b> , 82, 3576-3580	7.4	19
161	Search for chargino-neutralino production in pp-bar collisions at $\sqrt{s} = 1.8 \text{ TeV}$ . <i>Physical Review Letters</i> , <b>1996</b> , 76, 4307-4311	7.4	19

160	Search for pair production of scalar top quarks in R-parity violating decay modes in pp collisions at square root of $s=1.8$ TeV. <i>Physical Review Letters</i> , <b>2004</b> , 92, 051803	7.4	18
159	Diffractive dijet production at $\sqrt{s} = 630$ and 1800 GeV at the Fermilab Tevatron. <i>Physical Review Letters</i> , <b>2002</b> , 88, 151802	7.4	18
158	Limits on light gravitino production and new processes with large missing transverse energy in $p\bar{p}$ collisions at $\sqrt{s}$ . <i>Physical Review Letters</i> , <b>2000</b> , 85, 1378-83	7.4	18
157	Search for the Decays $B_s^0, B_d^0 \rightarrow e^+e^-$ and Pati-Salam Leptoquarks. <i>Physical Review Letters</i> , <b>1998</b> , 81, 5742-5747	7.4	18
156	Measurement of the Bs meson lifetime. <i>Physical Review Letters</i> , <b>1995</b> , 74, 4988-4992	7.4	18
155	Study of $t\bar{t}$ collisions using total transverse energy. <i>Physical Review Letters</i> , <b>1995</b> , 75, 3997-4002	7.4	18
154	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> , <b>2012</b> , 72, 1	4.2	17
153	Search for pair production of first-generation scalar leptoquarks in pp collisions at $\sqrt{s} = 7$ TeV. <i>Physical Review Letters</i> , <b>2011</b> , 106, 201802	7.4	17
152	Performance of the CMS hadron calorimeter with cosmic ray muons and LHC beam data. <i>Journal of Instrumentation</i> , <b>2010</b> , 5, T03012-T03012	1	17
151	Commissioning and performance of the CMS pixel tracker with cosmic ray muons. <i>Journal of Instrumentation</i> , <b>2010</b> , 5, T03007-T03007	1	17
150	Measurement of the helicity of W bosons in top-quark decays. <i>Physical Review D</i> , <b>2006</b> , 73,	4.9	17
149	Search for the supersymmetric partner of the top quark in dilepton events from pp collisions at square root of $s=1.8$ TeV. <i>Physical Review Letters</i> , <b>2003</b> , 90, 251801	7.4	17
148	Search for gluinos and squarks using like-sign dileptons in pp collisions at square root of $s = 1.8$ TeV. <i>Physical Review Letters</i> , <b>2001</b> , 87, 251803	7.4	17
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144	Measurement of the Branching Fraction $B(B \rightarrow J/\psi \pi^+)$ and Search for $B \rightarrow J/\psi \pi^+$ . <i>Physical Review Letters</i> , <b>1996</b> , 77, 5176-5181	7.4	17
143	Search for large extra dimensions in dimuon and dielectron events in pp collisions at . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 711, 15-34	4.2	16

142	Precise mapping of the magnetic field in the CMS barrel yoke using cosmic rays. <i>Journal of Instrumentation</i> , <b>2010</b> , 5, T03021-T03021	1	16
141	Charged-particle multiplicity pp collisions at square root of (s) = 1.8 TeV. <i>Physical Review Letters</i> , <b>2001</b> , 87, 211804	7.4	16
140	Search for new physics in photon-lepton events in pp collisions at sqrt[s] = 1.8 TeV. <i>Physical Review Letters</i> , <b>2002</b> , 89, 041802	7.4	16
139	Properties of Jets in Z Boson Events from 1.8 TeV p-barp Collisions. <i>Physical Review Letters</i> , <b>1996</b> , 77, 448-453	7.4	16
138	Threshold inelastic electron scattering from the proton at high momentum transfers. <i>Physical Review D</i> , <b>1994</b> , 49, 3091-3097	4.9	16
137	Search for the top quark decaying to a charged Higgs boson in p-barp collisions at sqrt s =1.8 TeV. <i>Physical Review Letters</i> , <b>1994</b> , 73, 2667-2671	7.4	16
136	Search for the top quark decaying to a charged Higgs boson in p p-bar collisions at sqrt s =1.8 TeV. <i>Physical Review Letters</i> , <b>1994</b> , 72, 1977-1981	7.4	16
135	Measurement of e+e-->bb-bar forward-backward charge asymmetry between sqrt s =52 and 57 GeV. <i>Physical Review Letters</i> , <b>1989</b> , 63, 2341-2345	7.4	16
134	Commissioning and performance of the CMS silicon strip tracker with cosmic ray muons. <i>Journal of Instrumentation</i> , <b>2010</b> , 5, T03008-T03008	1	15
133	Commissioning of the CMS experiment and the cosmic run at four tesla. <i>Journal of Instrumentation</i> , <b>2010</b> , 5, T03001-T03001	1	15
132	Heavy flavor properties of jets produced in pp-bar interactions at s=1.8TeV. <i>Physical Review D</i> , <b>2004</b> , 69,	4.9	15
131	Measurement of the B0B0 oscillation frequency using D*+ pairs and lepton flavor tags. <i>Physical Review D</i> , <b>1999</b> , 60,	4.9	15
130	Search for Third-Generation Leptoquarks from Technicolor Models in pp-bar Collisions at sqrt s=1.8TeV. <i>Physical Review Letters</i> , <b>1999</b> , 82, 3206-3211	7.4	15
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128	Measurement of the dijet mass distribution in pp-bar collisions at sqrt s =1.8 TeV. <i>Physical Review D</i> , <b>1993</b> , 48, 998-1008	4.9	15
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124	Optimization of crystals for applications in dual-readout calorimetry. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2010</b> , 621, 212-221	1.2	14
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122	Measurement of the average time-integrated mixing probability of b-flavored hadrons produced at the Fermilab Tevatron. <i>Physical Review D</i> , <b>2004</b> , 69,	4.9	14
121	Observation of diffractive J/psi production at the Fermilab Tevatron. <i>Physical Review Letters</i> , <b>2001</b> , 87, 241802	7.4	14
120	Search for new physics in photon-lepton events in pp collisions at s=1.8 TeV. <i>Physical Review D</i> , <b>2002</b> , 66,	4.9	14
119	Forward-backward charge asymmetry in e+e-->hadron jets. <i>Physical Review Letters</i> , <b>1990</b> , 64, 983-986	7.4	14
118	Measurement of the inclusive production cross sections for forward jets and for dijet events with one forward and one central jet in pp collisions at ( sqrt {s} = 7 ) TeV. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	13
117	Measurement of the ratio of the 3-jet to 2-jet cross sections in pp collisions at s=7 TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2011</b> , 702, 336-354	4.2	13
116	Search for pair production of second-generation scalar leptoquarks in pp collisions at sqrt{s} = 7 TeV. <i>Physical Review Letters</i> , <b>2011</b> , 106, 201803	7.4	13
115	Measurement of charged-particle multiplicities in gluon and quark jets in pp collisions at square root of s = 1.8 TeV. <i>Physical Review Letters</i> , <b>2005</b> , 94, 171802	7.4	13
114	Search for a Technicolor T Particle in Events with a Photon and a b-Quark Jet at Fermilab. <i>Physical Review Letters</i> , <b>1999</b> , 83, 3124-3129	7.4	13
113	Measurement of b quark fragmentation fractions in the production of strange and light B mesons in pp collisions at s=1.8TeV. <i>Physical Review D</i> , <b>1999</b> , 60,	4.9	13
112	Search for quark compositeness in dijet angular distributions from pp collisions at ( sqrt {s} = 7 ) TeV. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	12
111	Search for light resonances decaying into pairs of muons as a signal of new physics. <i>Journal of High Energy Physics</i> , <b>2011</b> , 2011, 1	5.4	12
110	Searches for new physics in events with a photon and b-quark jet at CDF. <i>Physical Review D</i> , <b>2002</b> , 65,	4.9	12
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108	Search for a W' boson via the decay mode W'-->munumu in 1.8 TeV pp collisions. <i>Physical Review Letters</i> , <b>2000</b> , 84, 5716-21	7.4	12
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104	Detection of electron showers in dual-readout crystal calorimeters. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2012</b> , 686, 125-135	1.2	11
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102	Search for the standard model Higgs boson in the H -> ZZ -> $\mu\mu\mu\mu$ decay channel in pp collisions at (sqrt{s} = {7};{text{TeV}}). <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1	5.4	11
101	Search for first generation scalar leptoquarks in the . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2011</b> , 703, 246-266	4.2	11
100	Search for scalar bottom quarks from gluino decays in collisions at. <i>Physical Review Letters</i> , <b>2006</b> , 96, 171802	7.4	11
99	Search for associated production of Upsilon and vector boson in pp collisions at sqrt{s}=1.8 TeV. <i>Physical Review Letters</i> , <b>2003</b> , 90, 221803	7.4	11
98	Search for the supersymmetric partner of the top quark in pp collisions at s=1.8 TeV. <i>Physical Review D</i> , <b>2001</b> , 63,	4.9	11
97	Observation of Hadronic W Decays in tt Events with the Collider Detector at Fermilab. <i>Physical Review Letters</i> , <b>1998</b> , 80, 5720-5725	7.4	11
96	Lessons from Monte Carlo simulations of the performance of a dual-readout fiber calorimeter. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2014</b> , 762, 100-118	1.2	10
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87	A search for $t \rightarrow \bar{q}$ in $tt$ production. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2006</b> , 639, 172-178	4.2	9
86	Measurement of the polar-angle distribution of leptons from $W$ boson decay as a function of the $W$ transverse momentum in $pp$ collisions at $s=1.8$ TeV. <i>Physical Review D</i> , <b>2004</b> , 70,	4.9	9
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83	Search for squarks and gluinos via radiative decays of neutralinos in proton-antiproton collisions at $\sqrt{s}=1.8$ TeV. <i>Physical Review Letters</i> , <b>1995</b> , 75, 613-617	7.4	9
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77	Alignment of the CMS muon system with cosmic-ray and beam-halo muons. <i>Journal of Instrumentation</i> , <b>2010</b> , 5, T03020-T03020	1	8
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66	Tests of enhanced leading order QCD in W boson plus jets events from 1.8 TeV $p\bar{p}$ collisions. <i>Physical Review D</i> , <b>2001</b> , 63,	4-9	7
65	Cross section for forward $J/\psi$ production in $pp$ collisions at $s=1.8$ TeV. <i>Physical Review D</i> , <b>2002</b> , 66,	4-9	7
64	Measurement of the differential dijet mass cross section in $pp$ collisions at $s=1.8$ TeV. <i>Physical Review D</i> , <b>2000</b> , 61,	4-9	7
63	Center-of-mass angular distribution of prompt photons produced in $pp$ collisions at $\sqrt{s}=1.8$ TeV. <i>Physical Review Letters</i> , <b>1993</b> , 71, 679-683	7-4	7
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58	Search for the decay $B_s \rightarrow \mu\mu$ in $pp$ collisions at $s=1.8$ TeV. <i>Physical Review D</i> , <b>2002</b> , 65,	4-9	6
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51	Measurement of B-meson lifetimes using fully reconstructed B decays produced in pp collisions at $\sqrt{s}=1.8$ TeV. <i>Physical Review D</i> , <b>2002</b> , 65,	4-9	5
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