

Marcel Demarteau

List of Publications by Year in Descending Order

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

448
papers

18,357
citations

61
h-index

108
g-index

462
ext. papers

19,852
ext. citations

5.7
avg, IF

4.52
L-index

#	Paper	IF	Citations
448	AI-optimized detector design for the future Electron-Ion Collider: the dual-radiator RICH case. <i>Journal of Instrumentation</i> , 2020 , 15, P05009-P05009	1	5
447	Large area planar photocathode for MCP-based photodetectors. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2020 , 955, 163234	1.2	1
446	Feasibility of hard X-ray imaging using monolithic active pixel sensors (MAPS). <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2020 , 954, 161243	1.2	
445	Ultrafast inorganic scintillator-based front imager for Gigahertz Hard X-ray imaging. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2019 , 940, 223-229	1.2	10
444	FCC Physics Opportunities. <i>European Physical Journal C</i> , 2019 , 79, 1	4.2	174
443	From optical to X-ray ghost imaging. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2019 , 935, 173-177	1.2	2
442	Characteristics of fast timing MCP-PMTs in magnetic fields. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2019 , 929, 84-89	1.2	8
441	Fast-timing microchannel plate photodetectors: Design, fabrication, and characterization. <i>Review of Scientific Instruments</i> , 2019 , 90, 043109	1.7	2
440	First experimental demonstration of time-resolved X-ray measurements with next-generation fast-timing MCP-PMT. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2019 , 927, 287-292	1.2	1
439	FCC-hh: The Hadron Collider. <i>European Physical Journal: Special Topics</i> , 2019 , 228, 755-1107	2.3	196
438	Initial assessment of multilayer silicon detectors for hard X-ray imaging. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2019 , 942, 162414	1.2	4
437	HE-LHC: The High-Energy Large Hadron Collider. <i>European Physical Journal: Special Topics</i> , 2019 , 228, 1109-1382	2.3	72
436	FCC-ee: The Lepton Collider. <i>European Physical Journal: Special Topics</i> , 2019 , 228, 261-623	2.3	193
435	Top-quark physics at the CLIC electron-positron linear collider. <i>Journal of High Energy Physics</i> , 2019 , 2019, 1	5.4	8
434	Radiation tolerance study on irradiated AC-coupled, poly-silicon biased, p-on-n silicon strip sensors developed in India. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2019 , 913, 97-102	1.2	
433	Development of AC-coupled, poly-silicon biased, p-on-n silicon strip detectors in India for HEP experiments. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2018 , 882, 1-10	1.2	2
432	Design Improvement and Bias Voltage Optimization of Glass-Body Microchannel Plate Picosecond Photodetector. <i>IEEE Transactions on Nuclear Science</i> , 2017 , 64, 1871-1879	1.7	4

431	Design and R&D of RICH detectors for EIC experiments. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2017 , 876, 237-240 ^{1,2}	1.2	9
430	Modular focusing ring imaging Cherenkov detector for electron- τ collider experiments. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2017 , 871, 13-19	1.2	9
429	Synchrotron x-ray study of a low roughness and high efficiency K2CsSb photocathode during film growth. <i>Journal Physics D: Applied Physics</i> , 2017 , 50, 205303	3	11
428	Higgs physics at the CLIC electron-positron linear collider. <i>European Physical Journal C</i> , 2017 , 77, 475	4.2	76
427	MCP-based photodetectors for cryogenic applications. <i>Journal of Instrumentation</i> , 2016 , 11, C02019-C02019		3
426	Conceptual design studies for a CEPC detector. <i>International Journal of Modern Physics A</i> , 2016 , 31, 1644021	0.2	1
425	Particle and nuclear physics instrumentation and its broad connections. <i>Reviews of Modern Physics</i> , 2016 , 88,	40.5	5
424	Development of a low-cost fast-timing microchannel plate photodetector. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2016 , 824, 159-161	1.2	7
423	Design and fabrication of prototype 6 \times 6 cm ² microchannel plate photodetector with bi-alkali photocathode for fast timing applications. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2015 , 784, 242-247	1.2	8
422	Development and testing of cost-effective, 6 cm \times 6 cm MCP-based photodetectors for fast timing applications. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2015 , 804, 84-93	1.2	9
421	A Small Signal Amplifier Based on Ionic Liquid Gated Black Phosphorous Field Effect Transistor. <i>IEEE Electron Device Letters</i> , 2015 , 36, 621-623	4.4	11
420	Ambipolar phosphorene field effect transistor. <i>ACS Nano</i> , 2014 , 8, 11730-8	16.7	299
419	Tunable transport gap in phosphorene. <i>Nano Letters</i> , 2014 , 14, 5733-9	11.5	578
418	Imaging of large-area microchannel plates using phosphor screens. <i>Journal of Instrumentation</i> , 2014 , 9, P11011-P11011	1	2
417	R&D paths of pixel detectors for vertex tracking and radiation imaging. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2013 , 716, 29-45	1.2	7
416	Real time evolution of antimony deposition for high performance alkali photocathode development 2013 ,		1
415	Search for Higgs bosons decaying to $\mu\mu$ pairs in pp collisions at $\sqrt{s}=1.96$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2012 , 707, 323-329	4.2	12
414	Model independent search for new phenomena in pp collisions at $\sqrt{s}=1.96$ TeV. <i>Physical Review D</i> , 2012 , 85,	4.9	5

413	Development of an Alkali Transfer Photocathode for Large Area Microchannel Plate-Based Photodetectors. <i>Physics Procedia</i> , 2012 , 37, 733-739		1
412	Revealing the Correlations between Growth Recipe and Microscopic Structure of Bi-alkali/Multi-alkali Photocathodes. <i>Physics Procedia</i> , 2012 , 37, 765-772		
411	Optimization of Transmission Mode Metallic (Aluminum) Photocathodes. <i>Physics Procedia</i> , 2012 , 37, 757-764		2
410	Search for doubly charged Higgs boson pair production in pp collisions at $\sqrt{s}=1.96$ TeV. <i>Physical Review Letters</i> , 2012 , 108, 021801	7.4	24
409	Measurement of the CP-violating phase ϕ_1 using the flavor-tagged decay $B_s^0 \rightarrow J/\psi$ in 8 fb ⁻¹ of pp collisions. <i>Physical Review D</i> , 2012 , 85,	4.9	70
408	Beam tests of directly coupled scintillator tiles with MPPC readout. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2011 , 659, 348-354	1.2	7
407	Measurement of spin correlation in e^+e^- . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2011 , 702, 16-23	4.2	32
406	Determination of the pole and ϕ_1 . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2011 , 703, 422-427	4.2	52
405	Measurement of the ϕ_1 . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2011 , 704, 403-410	4.2	47
404	Measurement of three-jet differential cross sections $d\sigma_{3jet}/dM_{3jet}$ in pp collisions at $\sqrt{s}=1.96$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2011 , 704, 434-441	4.2	13
403	Measurements of inclusive ϕ_1 . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2011 , 705, 200-207	4.2	20
402	High mass exclusive diffractive dijet production in pp . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2011 , 705, 193-199	4.2	7
401	Model-independent measurement of t-channel single top quark production in pp . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2011 , 705, 313-319	4.2	40
400	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
399	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
398	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
397	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
396	Inclusive b-hadron production cross section with muons in pp collisions at $(\sqrt{s} = 7; \text{TeV})$. <i>Journal of High Energy Physics</i> , 2011 , 2011, 1	5.4	21

395	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
394	Measurement of Bose-Einstein correlations in pp collisions at $(\sqrt{s} = 0.9)$ and 7 TeV. <i>Journal of High Energy Physics</i> , 2011 , 2011, 1	5-4	22
393	Strange particle production in pp collisions at $(\sqrt{s} = 0.9)$ and 7 TeV. <i>Journal of High Energy Physics</i> , 2011 , 2011, 1	5-4	78
392	Measurements of single top quark production cross sections and $ V_{tb} $ in pp collisions at $s=1.96$ TeV. <i>Physical Review D</i> , 2011 , 84,	4-9	28
391	Measurement of the W boson helicity in top quark decays using 5.4 fb of pp collision data. <i>Physical Review D</i> , 2011 , 83,	4-9	33
390	Measurement of $\sin 2\beta_{\text{eff}}$ and Z-light quark couplings using the forward-backward charge asymmetry in $pp \rightarrow Z/\gamma \rightarrow e^+e^-$ events with $L=5.0$ fb at $s=1.96$ TeV. <i>Physical Review D</i> , 2011 , 84,	4-9	21
389	Precise measurement of the top-quark mass from lepton+jets events at D0. <i>Physical Review D</i> , 2011 , 84,	4-9	32
388	Measurement of the ZZ production cross section in pp collisions at $s=1.96$ TeV. <i>Physical Review D</i> , 2011 , 84,	4-9	12
387	Search for first generation leptoquark pair production in the electron + missing energy + jets final state. <i>Physical Review D</i> , 2011 , 84,	4-9	14
386	Measurement of the anomalous like-sign dimuon charge asymmetry with 9 fb of pp collisions. <i>Physical Review D</i> , 2011 , 84,	4-9	88
385	Direct measurement of the mass difference between top and antitop quarks. <i>Physical Review D</i> , 2011 , 84,	4-9	25
384	The D0 Silicon Microstrip Tracker. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2011 , 634, 8-46	1-2	41
383	Measurement of the $WZ \rightarrow \mu\mu$ cross section and limits on anomalous triple gauge couplings in pp collisions at $s=1.96$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2011 , 695, 67-73	4-2	20
382	Search for a heavy neutral gauge boson in the dielectron channel with 5.4 fb of pp collisions at $s=1.96$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2011 , 695, 88-94	4-2	52
381	Search for pair production of the scalar top quark in the electron + muon final state. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2011 , 696, 321-327	4-2	18
380	Search for WH associated production in 5.3 fb of pp collisions at the Fermilab Tevatron. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2011 , 698, 6-13	4-2	16
379	Search for neutral Higgs bosons in the multi-b-jet topology in . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2011 , 698, 97-104	4-2	29
378	Search for $W^{\pm} \rightarrow tb$ resonances with left- and right-handed couplings to fermions. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2011 , 699, 145-150	4-2	42

377	Search for flavor changing neutral currents in decays of top quarks. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2011 , 701, 313-320	4.2	29
376	Bounds on an anomalous dijet resonance in W+jets production in pp collisions at $\sqrt{s} = 1.96$ TeV. <i>Physical Review Letters</i> , 2011 , 107, 011804	7.4	54
375	Search for the standard model Higgs boson in the $H \rightarrow WW \rightarrow l\bar{l}lq$ decay channel. <i>Physical Review Letters</i> , 2011 , 106, 171802	7.4	8
374	Search for a fourth generation tLQuark in pp collisions at $\sqrt{s} = 1.96$ TeV. <i>Physical Review Letters</i> , 2011 , 107, 082001	7.4	24
373	Measurement of the ratio of inclusive cross sections $\sigma(\text{pp} \rightarrow Z + b\bar{b} \text{quark jet}) / \sigma(\text{pp} \rightarrow Z + \text{jet})$ at $s = 1.96$ TeV. <i>Physical Review D</i> , 2011 , 83,	4.9	13
372	Measurement of the top quark pair production cross section in the lepton+jets channel in proton-antiproton collisions at $s = 1.96$ TeV. <i>Physical Review D</i> , 2011 , 84,	4.9	45
371	Azimuthal decorrelations and multiple parton interactions in $\#2$ jet and $\#3$ jet events in pp collisions at $s = 1.96$ TeV. <i>Physical Review D</i> , 2011 , 83,	4.9	22
370	Measurement of color flow in $t\bar{t}$ events from pp collisions at $s = 1.96$ TeV. <i>Physical Review D</i> , 2011 , 83,	4.9	14
369	Search for associated Higgs boson production using like charge dilepton events in pp collisions at $s = 1.96$ TeV. <i>Physical Review D</i> , 2011 , 84,	4.9	9
368	Measurement of the production fraction times branching fraction $f(b \rightarrow \bar{b})B(\bar{b} \rightarrow J/\psi)$ <i>Physical Review D</i> , 2011 , 84,	4.9	15
367	Forward-backward asymmetry in top quark-antiquark production. <i>Physical Review D</i> , 2011 , 84,	4.9	170
366	Precise measurement of the top quark mass in the dilepton channel at D0. <i>Physical Review Letters</i> , 2011 , 107, 082004	7.4	17
365	Determination of the width of the top quark. <i>Physical Review Letters</i> , 2011 , 106, 022001	7.4	30
364	Measurement of spin correlation in $t\bar{t}$ production using a matrix element approach. <i>Physical Review Letters</i> , 2011 , 107, 032001	7.4	31
363	Precise study of the Z/ γ boson transverse momentum distribution in pp collisions using a novel technique. <i>Physical Review Letters</i> , 2011 , 106, 122001	7.4	43
362	Search for neutral minimal supersymmetric standard model Higgs bosons decaying to tau pairs produced in association with b quarks in pp collisions at $\sqrt{s} = 1.96$ TeV. <i>Physical Review Letters</i> , 2011 , 107, 121801	7.4	10
361	Search for Resonant WW and WZ Production in pp collisions at $\sqrt{s} = 1.96$ TeV. <i>Physical Review Letters</i> , 2011 , 107, 011801	7.4	18
360	Precision measurement of the ratio $B(t \rightarrow Wb) / B(t \rightarrow Wq)$ and extraction of V_{tb} . <i>Physical Review Letters</i> , 2011 , 107, 121802	7.4	33

359	Search for a fermiophobic and standard model Higgs boson in diphoton final states. <i>Physical Review Letters</i> , 2011 , 107, 151801	7.4	15
358	Search for single vectorlike quarks in pp collisions at $\sqrt{s}=1.96$ TeV. <i>Physical Review Letters</i> , 2011 , 106, 081801	7.4	16
357	WZ production and limits on anomalous WW couplings in pp collisions at $\sqrt{s} = 1.96$ TeV. <i>Physical Review Letters</i> , 2011 , 107, 241803	7.4	18
356	Search for a resonance decaying into WZ boson pairs in pp collisions. <i>Physical Review Letters</i> , 2010 , 104, 061801	7.4	16
355	Search for diphoton events with large missing transverse energy in 6.3 fb ⁻¹ of pp collisions at $\sqrt{s}=1.96$ TeV. <i>Physical Review Letters</i> , 2010 , 105, 221802	7.4	23
354	Search for new fermions ("quirks") at the Fermilab Tevatron collider. <i>Physical Review Letters</i> , 2010 , 105, 211803	7.4	8
353	Double parton interactions in ≥ 3 jet events in pp collisions at $s=1.96$ TeV. <i>Physical Review D</i> , 2010 , 81,	4.9	119
352	Search for events with leptonic jets and missing transverse energy in pp collisions at $\sqrt{s}=1.96$ TeV. <i>Physical Review Letters</i> , 2010 , 105, 211802	7.4	18
351	Search for the associated production of a b quark and a neutral supersymmetric Higgs boson that decays into tau pairs. <i>Physical Review Letters</i> , 2010 , 104, 151801	7.4	10
350	Evidence for an anomalous like-sign dimuon charge asymmetry. <i>Physical Review Letters</i> , 2010 , 105, 081801	7.4	89
349	Evidence for an anomalous like-sign dimuon charge asymmetry. <i>Physical Review D</i> , 2010 , 82,	4.9	123
348	Search for the standard model higgs Boson in the ZH \rightarrow bb channel in 5.2 fb ⁻¹ of pp collisions at $\sqrt{s}=1.96$ TeV. <i>Physical Review Letters</i> , 2010 , 104, 071801	7.4	15
347	Search for Higgs boson production in dilepton and missing energy final states with 5.4 fb ⁻¹ of pp collisions at square root(s) = 1.96 TeV. <i>Physical Review Letters</i> , 2010 , 104, 061804	7.4	31
346	Search for sneutrino production in e $\bar{\nu}$ final states in 5.3 fb ⁻¹ of pp collisions at square root s =1.96 TeV. <i>Physical Review Letters</i> , 2010 , 105, 191802	7.4	17
345	Search for ZH \rightarrow l $^+$ l $^-$ bb production in 4.2 fb ⁻¹ of pp collisions at $\sqrt{s} = 1.96$ TeV. <i>Physical Review Letters</i> , 2010 , 105, 251801	7.4	14
344	Timing Performances of Large Area Silicon Photomultipliers Fabricated at STMicroelectronics. <i>IEEE Transactions on Nuclear Science</i> , 2010 , 57, 2273-2279	1.7	45
343	Search for Randall-Sundrum gravitons in the dielectron and diphoton final states with 5.4 fb ⁻¹ of data from pp collisions at square root(s) = 1.96 TeV. <i>Physical Review Letters</i> , 2010 , 104, 241802	7.4	32
342	Combination of Tevatron searches for the standard model Higgs boson in the W+W $^-$ decay mode. <i>Physical Review Letters</i> , 2010 , 104, 061802	7.4	104

341	Search for CP violation in $B_s^0 \rightarrow D_s^\pm X$ decays in pp collisions at $\sqrt{s}=1.96$ TeV. <i>Physical Review D</i> , 2010 , 82,	4.9	26
340	Measurement of tt production in the jj jets topology using pp collisions at $\sqrt{s}=1.96$ TeV. <i>Physical Review D</i> , 2010 , 82,	4.9	13
339	Vertically Integrated Circuits at Fermilab. <i>IEEE Transactions on Nuclear Science</i> , 2010 , 57, 2178-2186	1.7	31
338	Combined Tevatron upper limit on $gg \rightarrow H \rightarrow W+W$ and constraints on the Higgs boson mass in fourth-generation fermion models. <i>Physical Review D</i> , 2010 , 82,	4.9	31
337	Measurement of the tt cross section using high-multiplicity jet events. <i>Physical Review D</i> , 2010 , 82,	4.9	11
336	Architecture of a silicon strip beam position monitor. <i>Journal of Instrumentation</i> , 2010 , 5, C12039-C12039		
335	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
334	CMS tracking performance results from early LHC operation. <i>European Physical Journal C</i> , 2010 , 70, 1165-1192	4.2	99
333	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
332	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
331	3D design activities at Fermilab Opportunities for physics. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2010 , 617, 375-377	1.2	17
330	Tests of timing properties of silicon photomultipliers. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2010 , 616, 38-44	1.2	34
329	The layer 0 inner silicon detector of the D0 experiment. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2010 , 622, 298-310	1.2	123
328	Measurement of $Z/\gamma + \text{jet} + X$ angular distributions in pp collisions at $\sqrt{s}=1.96$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2010 , 682, 370-380	4.2	27
327	Measurement of the t-channel single top quark production cross section. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2010 , 682, 363-369	4.2	36
326	Search for single top quarks in the $\tau + \text{jets}$ channel using 4.8 fb^{-1} of pp collision data. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2010 , 690, 5-14	4.2	11
325	Measurement of direct photon pair production cross sections in pp collisions at $\sqrt{s}=1.96$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2010 , 690, 108-117	4.2	33
324	Search for flavor changing neutral currents via quark-gluon couplings in single top quark production using 2.3 fb^{-1} of . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2010 , 693, 81-87	4.2	45

323	Search for scalar bottom quarks and third-generation leptoquarks in . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2010 , 693, 95-101	4.2	39
322	Dependence of the $t\bar{t}$ production cross section on the transverse momentum of the top quark. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2010 , 693, 515-521	4.2	31
321	Measurement of the normalized . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2010 , 693, 522-530	4.2	38
320	Measurement of the dijet invariant mass cross section in pp collisions at $\sqrt{s}=1.96$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2010 , 693, 531-538	4.2	24
319	Search for the rare decay . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2010 , 693, 539-544	4.2	60
318	b-Jet identification in the D0 experiment. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2010 , 620, 490-517	1.2	87
317	Development of a 10ps level time of flight system in the Fermilab Test Beam Facility. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2010 , 623, 931-941	1.2	23
316	Direct measurement of the mass difference between top and antitop quarks. <i>Physical Review Letters</i> , 2009 , 103, 132001	7.4	10
315	Measurement of the angular and lifetime parameters of the decays $B_d^0 \rightarrow J/\psi K^*0$ and $B_s^0 \rightarrow J/\psi \phi$. <i>Physical Review Letters</i> , 2009 , 102, 032001	7.4	11
314	Search for large extra spatial dimensions in the dielectron and diphoton channels in pp collisions at $\sqrt{s}=1.96$ TeV. <i>Physical Review Letters</i> , 2009 , 102, 051601	7.4	28
313	Measurement of dijet angular distributions at $\sqrt{s} = 1.96$ TeV and searches for quark compositeness and extra spatial dimensions. <i>Physical Review Letters</i> , 2009 , 103, 191803	7.4	68
312	Search for long-lived charged massive particles with the D0 detector. <i>Physical Review Letters</i> , 2009 , 102, 161802	7.4	46
311	Direct measurement of the W boson width. <i>Physical Review Letters</i> , 2009 , 103, 231802	7.4	9
310	Measurement of trilinear gauge boson couplings from $WW+WZ \rightarrow l\bar{l}$ events in pp collisions at $\sqrt{s}=1.96$ TeV. <i>Physical Review D</i> , 2009 , 80,	4.9	12
309	Measurement of the WW production cross section with dilepton final states in pp collisions at $\sqrt{s} = 1.96$ TeV and limits on anomalous trilinear gauge couplings. <i>Physical Review Letters</i> , 2009 , 103, 191801	7.4	32
308	Measurement of the lifetime of the $B_c^{+/-}$ meson in the semileptonic decay channel. <i>Physical Review Letters</i> , 2009 , 102, 092001	7.4	42
307	Search for resonant pair production of neutral long-lived particles decaying to $b\bar{b}$ in pp collisions at $\sqrt{s}=1.96$ TeV. <i>Physical Review Letters</i> , 2009 , 103, 071801	7.4	40
306	Evidence for the decay $B_s^0 \rightarrow D_s^{(*)} D_s^{(*)}$ and a measurement of $\Delta\Gamma_{CP}/\Gamma_{CP}$. <i>Physical Review Letters</i> , 2009 , 102, 091801	7.4	11

305	Measurement of the $Z\gamma \rightarrow \nu\bar{\nu}\gamma$ production cross section and limits on anomalous $ZZ\gamma$ and $Z\gamma\gamma$ couplings in pp collisions at $\sqrt{s} = 1.96$ TeV. <i>Physical Review Letters</i> , 2009 , 102, 201802	7.4	17
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303	Search for charged higgs bosons decaying into top and bottom quarks in pp collisions. <i>Physical Review Letters</i> , 2009 , 102, 191802	7.4	28
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300	Search for the standard model Higgs boson in tau final states. <i>Physical Review Letters</i> , 2009 , 102, 251801	7.4	14
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298	Search for resonant diphoton production with the D0 detector. <i>Physical Review Letters</i> , 2009 , 102, 231801	7.4	29
297	Search for next-to-minimal supersymmetric Higgs bosons in the $h \rightarrow a\bar{a} \rightarrow \mu\mu\tau\tau$ channels using pp collisions at $\sqrt{s} = 1.96$ TeV. <i>Physical Review Letters</i> , 2009 , 103, 061801	7.4	52
296	Search for neutral Higgs Bosons at high $\tan\beta$ in the $b(h/H/A) \rightarrow b\tau^+\tau^-$ channel. <i>Physical Review Letters</i> , 2009 , 102, 051804	7.4	11
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294	Search for anomalous top-quark couplings with the D0 detector. <i>Physical Review Letters</i> , 2009 , 102, 092002	7.4	18
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263	Search for Higgs bosons decaying to tau pairs in pp collisions with the D0 detector. <i>Physical Review Letters</i> , 2008 , 101, 071804	7.4	31
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238	Search for large extra dimensions via single photon plus missing energy final states at $\sqrt{s} = 1.96$ TeV. <i>Physical Review Letters</i> , 2008 , 101, 011601	7.4	43
237	Search for ZZ and $Z\gamma^*$ production in pp collisions at square root $s=1.96$ TeV and limits on anomalous ZZZ and $ZZ\gamma^*$ couplings. <i>Physical Review Letters</i> , 2008 , 100, 131801	7.4	27
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235	Search for long-lived particles decaying into electron or photon pairs with the D0 detector. <i>Physical Review Letters</i> , 2008 , 101, 111802	7.4	18
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232	Search for supersymmetry in di-photon final states at . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2008 , 659, 856-863	4.2	29
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218	Measurement of the tt production cross section in pp collisions at $s=1.96\text{ TeV}$ using kinematic characteristics of lepton+jets events. <i>Physical Review D</i> , 2007 , 76,	4.9	49
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208	Search for production of single top quarks via t_{cg} and t_{ug} flavor-changing-neutral-current couplings. <i>Physical Review Letters</i> , 2007 , 99, 191802	7.4	43
207	Measurement of the Λ_{b0} lifetime using semileptonic decays. <i>Physical Review Letters</i> , 2007 , 99, 182001	7.4	18
206	Search for third-generation scalar leptoquarks in pp at square root $s=1.96$ TeV. <i>Physical Review Letters</i> , 2007 , 99, 061801	7.4	21
205	Measurement of the Λ_b lifetime in the exclusive decay $\Lambda_b \rightarrow J/\psi \Lambda_b$. <i>Physical Review Letters</i> , 2007 , 99, 142001	7.4	21
204	Search for techniparticles in e^+j events at D0. <i>Physical Review Letters</i> , 2007 , 98, 221801	7.4	10
203	Measurement of the $t\bar{t}$ production cross section in $pp\bar{\nu}\nu$ collisions using dilepton events. <i>Physical Review D</i> , 2007 , 76,	4.9	26
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169	Search for . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2006 , 641, 423-431	4.2	26
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153	Measurement of dijet azimuthal decorrelations at central rapidities in pp collisions at $\sqrt{s}=1.96\text{TeV}$. <i>Physical Review Letters</i> , 2005 , 94, 221801	7.4	64
152	Search for supersymmetry via associated production of charginos and neutralinos in final states with three leptons. <i>Physical Review Letters</i> , 2005 , 95, 151805	7.4	20
151	Study of Zgamma events and limits on anomalous ZZgamma and Zgamma gamma couplings in pp collisions at $\sqrt{s}=1.96\text{TeV}$. <i>Physical Review Letters</i> , 2005 , 95, 051802	7.4	15
150	Measurement of the B_0 s lifetime in the exclusive decay channel $B_0 \rightarrow J/\psi \pi$. <i>Physical Review Letters</i> , 2005 , 94, 042001	7.4	15
149	Search for supersymmetry with gauge-mediated breaking in diphoton events at D0. <i>Physical Review Letters</i> , 2005 , 94, 041801	7.4	15
148	Measurement of the ratio of B^+ and B_0 meson lifetimes. <i>Physical Review Letters</i> , 2005 , 94, 182001	7.4	13
147	Measurement of semileptonic branching fractions of B mesons to narrow D^{**} states. <i>Physical Review Letters</i> , 2005 , 95, 171803	7.4	18
146	Search for Wbb and WH production in pp collisions at $\sqrt{s}=1.96\text{TeV}$. <i>Physical Review Letters</i> , 2005 , 94, 091802	7.4	22
145	Search for the flavor-changing neutral current decay $B_0 \rightarrow \mu^+ \mu^-$ in pp Collisions at $\sqrt{s}=1.96\text{TeV}$ with the D0 detector. <i>Physical Review Letters</i> , 2005 , 94, 071802	7.4	55
144	Measurement of the ratio of inclusive cross sections $\sigma(pp \rightarrow Z + b \text{ jet})/\sigma(pp \rightarrow Z + \text{jet})$ at $\sqrt{s}=1.96\text{TeV}$. <i>Physical Review Letters</i> , 2005 , 94, 161801	7.4	19

143	Search for neutral supersymmetric Higgs Bosons in multijet events at $\sqrt{s}=1.96$ TeV. <i>Physical Review Letters</i> , 2005 , 95, 151801	7.4	40
142	Search for anomalous heavy-flavor quark production in association with W bosons. <i>Physical Review Letters</i> , 2005 , 94, 152002	7.4	5
141	Measurement of inclusive differential cross sections for pp collisions at $(\text{square root})s = 1.96$ TeV. <i>Physical Review Letters</i> , 2005 , 94, 232001	7.4	44
140	Search for large extra spatial dimensions in dimuon production with the d0 detector. <i>Physical Review Letters</i> , 2005 , 95, 161602	7.4	26
139	Search for Randall-Sundrum gravitons in dilepton and diphoton final states. <i>Physical Review Letters</i> , 2005 , 95, 091801	7.4	30
138	Search for new particles in the two-jet decay channel with the D0 detector. <i>Physical Review D</i> , 2004 , 69,	4.9	48
137	Search for doubly charged higgs boson pair production in the decay to $\mu(+)\mu(+)\mu(-)\mu(-)$ in pp collisions at $\sqrt{s}=1.96$ TeV. <i>Physical Review Letters</i> , 2004 , 93, 141801	7.4	63
136	Search for narrow tt resonances in pp collisions at square root of $(s)=1.8$ TeV. <i>Physical Review Letters</i> , 2004 , 92, 221801	7.4	21
135	Observation and properties of the X(3872) decaying to $J/\psi\pi^+\pi^-$ in pp collisions at $\sqrt{s}=1.96$ TeV. <i>Physical Review Letters</i> , 2004 , 93, 162002	7.4	408
134	Search for Pair Production of Light Scalar Top Quarks in pp Collisions at $s=1.8$ TeV. <i>Physical Review Letters</i> , 2004 , 93,	7.4	12
133	Combination of CDF and D0 results on the W boson mass and width. <i>Physical Review D</i> , 2004 , 70,	4.9	41
132	A precision measurement of the mass of the top quark. <i>Nature</i> , 2004 , 429, 638-42	50.4	202
131	Search for 3- and 4-body decays of the scalar top quark in pp collisions at $s= 1.8$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2004 , 581, 147-155	4.2	10
130	Observation of diffractively produced W and Z bosons in p p collisions at $s=1800$ GeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2003 , 574, 169-179	4.2	15
129	Search for large extra dimensions in the monojet+E(T) channel with the D0 detector. <i>Physical Review Letters</i> , 2003 , 90, 251802	7.4	51
128	tt production cross section in pp collisions at $s=1.8$ TeV. <i>Physical Review D</i> , 2003 , 67,	4.9	29
127	Multiple jet production at low transverse energies in pp collisions at $s=1.8$ TeV. <i>Physical Review D</i> , 2003 , 67,	4.9	10
126	The inclusive jet cross section in pp collisions at $s=1.8$ TeV using the k _T algorithm. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2002 , 525, 211-218	4.2	32

125	Hard single diffraction in p p collisions at $\sqrt{s}=630$ and 1800 GeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2002 , 531, 52-60	4.2	18
124	Search for R-parity violating supersymmetry in two-muon and four-jet topologies. <i>Physical Review Letters</i> , 2002 , 89, 171801	7.4	5
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121	Direct search for charged higgs bosons in decays of top quarks. <i>Physical Review Letters</i> , 2002 , 88, 151803	7.4	37
120	Direct measurement of the W boson decay width. <i>Physical Review D</i> , 2002 , 66,	4.9	17
119	Search for minimal supergravity in single-electron events with jets and large missing transverse energy in pp collisions at $\sqrt{s}=1.8$ TeV. <i>Physical Review D</i> , 2002 , 66,	4.9	2
118	Search for the scalar top quark in pp collisions at square root[\sqrt{s}] = 1.8 TeV. <i>Physical Review Letters</i> , 2002 , 88, 171802	7.4	16
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116	Improved W boson mass measurement with the DØ detector. <i>Physical Review D</i> , 2002 , 66,	4.9	35
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114	Search for single top quark production at DØ using neural networks. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2001 , 517, 282-294	4.2	51
113	Measurement of the ratio of differential cross sections for W and Z boson production as a function of transverse momentum in pp collisions at $\sqrt{s}=1.8$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2001 , 517, 299-308	4.2	6
112	Quasi-model-independent search for new high $p(T)$ physics at DØ. <i>Physical Review Letters</i> , 2001 , 86, 3712-74	7.4	24
111	Ratio of isolated photon cross sections in pp macro collisions at square root of $\sqrt{s} = 630$ and 1800 GeV. <i>Physical Review Letters</i> , 2001 , 87, 251805	7.4	33
110	Search for new physics using QUAERO: a general interface to DØ event data. <i>Physical Review Letters</i> , 2001 , 87, 231801	7.4	9
109	Search for heavy particles decaying into electron-positron pairs in pp collisions. <i>Physical Review Letters</i> , 2001 , 87, 061802	7.4	25
108	Ratio of jet cross sections at square root of $\sqrt{s} = 630$ GeV and 1800 GeV. <i>Physical Review Letters</i> , 2001 , 86, 2523-8	7.4	13

107	Quasi-model-independent search for new physics at large transverse momentum. <i>Physical Review D</i> , 2001 , 64,	4.9	25
106	Search for dilepton signatures from minimal low-energy supergravity in pp collisions at $s=1.8$ TeV. <i>Physical Review D</i> , 2001 , 63,	4.9	12
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104	Search for first-generation scalar and vector leptoquarks. <i>Physical Review D</i> , 2001 , 64,	4.9	13
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102	Search for large extra dimensions in dielectron and diphoton production. <i>Physical Review Letters</i> , 2001 , 86, 1156-61	7.4	61
101	High- p_T jets in p p collisions at $s=630$ and 1800 GeV. <i>Physical Review D</i> , 2001 , 64,	4.9	62
100	The bb production cross section and angular correlations in pp collisions at $s=1.8$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2000 , 487, 264-272	4.2	103
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98	Search for electroweak production of single top quarks in pp collisions. <i>Physical Review D</i> , 2000 , 63,	4.9	33
97	Measurement of the W boson mass using large rapidity electrons. <i>Physical Review D</i> , 2000 , 62,	4.9	28
96	Measurement of the inclusive differential cross section for Z bosons as a function of transverse momentum in p p collisions at $s=1.8$ TeV. <i>Physical Review D</i> , 2000 , 61,	4.9	48
95	Search for R-parity violation in multilepton final states in pp collisions at $s=1.8$ TeV. <i>Physical Review D</i> , 2000 , 62,	4.9	8
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90	Measurement of the $W \rightarrow \tau\nu$ production cross section in pp collisions at square root $s=1.8$ TeV. <i>Physical Review Letters</i> , 2000 , 84, 5710-5	7.4	12

89	Limits on anomalous WW and WWZ couplings from $WW/WZ \rightarrow e\bar{e}$ production. <i>Physical Review D</i> , 2000 , 62,	4.9	18
88	Isolated photon cross section in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV. <i>Physical Review Letters</i> , 2000 , 84, 2786-91	7.4	60
87	Search for new physics in $e\bar{e}$ data at D using SLEUTH: A quasi-model-independent search strategy for new physics. <i>Physical Review D</i> , 2000 , 62,	4.9	32
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85	Small-angle muon and bottom-quark production in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV. <i>Physical Review Letters</i> , 2000 , 84, 5478-83	7.4	37
84	Cross section for b -Jet production in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV. <i>Physical Review Letters</i> , 2000 , 85, 5068-73	7.4	65
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82	Measurement of the top quark pair production cross section in pp collisions using multijet final states. <i>Physical Review D</i> , 1999 , 60,	4.9	27
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79	Small Angle J/ψ Production in pp Collisions at $\sqrt{s} = 1.8$ TeV. <i>Physical Review Letters</i> , 1999 , 82, 35-40	7.4	38
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75	Measurement of the High-Mass Drell-Yan Cross Section and Limits on Quark-Electron Compositeness Scales. <i>Physical Review Letters</i> , 1999 , 82, 4769-4774	7.4	57
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73	Measurement of the top quark mass in the dilepton channel. <i>Physical Review D</i> , 1999 , 60,	4.9	73
72	Measurement of W and Z boson production cross sections in pp collisions at $\sqrt{s} = 1.8$ TeV. <i>Physical Review D</i> , 1999 , 60,	4.9	18

71	Search for Charged Higgs Bosons in Decays of Top Quark Pairs. <i>Physical Review Letters</i> , 1999 , 82, 4975-4980	7.4	78
70	Inclusive Jet Cross Section in $p\bar{p}$ Collisions at $\sqrt{s}=1.8\text{TeV}$. <i>Physical Review Letters</i> , 1999 , 82, 2451-2456	7.4	62
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68	Search for bottom squarks in $pp\bar{p}$ collisions at $s=1.8\text{ TeV}$. <i>Physical Review D</i> , 1999 , 60,	4.9	22
67	Evidence of color coherence effects in W+jets events from collisions at TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1999 , 464, 145-155	4.2	7
66	Determination of the absolute jet energy scale in the DØ calorimeters. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1999 , 424, 352-394	1.2	50
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59	Search for top squark pair production in the dielectron channel. <i>Physical Review D</i> , 1998 , 57, 589-593	4.9	13
58	Determination of the mass of the W boson using the DØ detector at the Fermilab Tevatron. <i>Physical Review D</i> , 1998 , 58,	4.9	21
57	Measurement of Dijet Angular Distributions and Search for Quark Compositeness. <i>Physical Review Letters</i> , 1998 , 80, 666-671	7.4	36
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55	Measurement of the Shape of the Transverse Momentum Distribution of W Bosons Produced in $pp\bar{p}$ Collisions at $\sqrt{s}=1.8\text{TeV}$. <i>Physical Review Letters</i> , 1998 , 80, 5498-5503	7.4	27
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50	Search for Trilepton Signatures from Associated Gaugino Pair Production. <i>Physical Review Letters</i> , 1998 , 80, 1591-1596	7.4	21
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44	Search for Scalar Leptoquark Pairs Decaying to Electrons and Jets in pp Collisions. <i>Physical Review Letters</i> , 1997 , 79, 4321-4326	7.4	44
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42	Limits on WW and WW Couplings from pp $\rightarrow e\mu X$ Events at $\sqrt{s}=1.8\text{TeV}$. <i>Physical Review Letters</i> , 1997 , 79, 1441-1446	7.4	26
41	Direct Measurement of the Top Quark Mass. <i>Physical Review Letters</i> , 1997 , 79, 1197-1202	7.4	88
40	Search for a Fourth Generation Charge $\frac{1}{3}$ Quark via Flavor Changing Neutral Current Decay. <i>Physical Review Letters</i> , 1997 , 78, 3818-3823	7.4	25
39	Measurement of the Top Quark Pair Production Cross Section in pp Collisions. <i>Physical Review Letters</i> , 1997 , 79, 1203-1208	7.4	67
38	Studies of gauge boson pair production and trilinear couplings. <i>Physical Review D</i> , 1997 , 56, 6742-6778	4.9	26
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36	Color coherent radiation in multijet events from collisions at. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1997 , 414, 419-427	4.2	17

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33	Search for additional neutral gauge bosons. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1996 , 385, 471-478	4.2	25
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25	Search for Anomalous WW and WZ Production in pp-bar Collisions at sqrt s=1.8 TeV. <i>Physical Review Letters</i> , 1996 , 77, 3303-3308	7.4	27
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20	W and Z Boson Production in pp-bar Collisions at sqrt s=1.8 TeV. <i>Physical Review Letters</i> , 1995 , 75, 1456-1461	7.4	62
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