

# Sara Fiorendi

## List of Publications by Year in descending order

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378  
papers

16,378  
citations

17405  
63  
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28224  
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9322  
citing authors

#	ARTICLE	IF	CITATIONS
1	Precise determination of the mass of the Higgs boson and tests of compatibility of its couplings with the standard model predictions using proton collisions at 7 and 8 $\sqrt{s}$ TeV. European Physical Journal C, 2015, 75, 212.	1.4	541
2	Event generator tunes obtained from underlying event and multiparton scattering measurements. European Physical Journal C, 2016, 76, 155.	1.4	499
3	Study of high-p T charged particle suppression in PbPb compared to pp collisions at $\sqrt{s_{\mathrm{NN}}}=2.76\text{--}5.02\text{ TeV}$ . European Physical Journal C, 2012, 72, 1.	1.4	369
4	Combined measurements of Higgs boson couplings in proton–proton collisions at $\sqrt{s}=13, 13.6, 13.8, 14.0, 14.3, 14.6, 14.9, 15.1, 15.4, 15.9, 16.1, 16.9, 17.1, 17.3, 17.6, 18.3, 18.9, 19.6, 20.1, 20.8, 21.3, 22.3, 23.1, 23.5, 24.3, 24.6, 25.1, 26.7, 27.9, 28.1, 28.8, 29.7, 31.0, 31.3, 31.8, 33.0, 35.0, 36.1, 37.9, 39.1, 40.1, 42.4, 44.5, 46.3, 47.9, 49.5, 50.1, 52.8, 54.7, 56.3, 57.9, 59.8, 62.8, 65.0, 67.4, 69.9, 72.5, 74.6, 76.6, 79.4, 81.8, 84.3, 86.8, 89.4, 91.9, 94.5, 97.1, 99.8, 102.5, 105.2, 107.9, 110.6, 113.3, 116.0, 118.7, 121.4, 124.1, 126.8, 129.5, 132.2, 134.9, 137.6, 140.3, 143.0, 145.7, 148.4, 151.1, 153.8, 156.5, 159.2, 161.9, 164.6, 167.3, 170.0, 172.7, 175.4, 178.1, 180.8, 183.5, 186.2, 188.9, 191.6, 194.3, 197.0, 199.7, 202.4, 205.1, 207.8, 210.5, 213.2, 215.9, 218.6, 221.3, 224.0, 226.7, 229.4, 232.1, 234.8, 237.5, 240.2, 242.9, 245.6, 248.3, 251.0, 253.7, 256.4, 259.1, 261.8, 264.5, 267.2, 269.9, 272.6, 275.3, 278.0, 280.7, 283.4, 286.1, 288.8, 291.5, 294.2, 296.9, 299.6, 302.3, 305.0, 307.7, 310.4, 313.1, 315.8, 318.5, 321.2, 323.9, 326.6, 329.3, 332.0, 334.7, 337.4, 340.1, 342.8, 345.5, 348.2, 350.9, 353.6, 356.3, 359.0, 361.7, 364.4, 367.1, 369.8, 372.5, 375.2, 377.9, 380.6, 383.3, 386.0, 388.7, 391.4, 394.1, 396.8, 399.5, 402.2, 404.9, 407.6, 410.3, 413.0, 415.7, 418.4, 421.1, 423.8, 426.5, 429.2, 431.9, 434.6, 437.3, 440.0, 442.7, 445.4, 448.1, 450.8, 453.5, 456.2, 458.9, 461.6, 464.3, 467.0, 469.7, 472.4, 475.1, 477.8, 480.5, 483.2, 485.9, 488.6, 491.3, 494.0, 496.7, 499.4, 502.1, 504.8, 507.5, 510.2, 512.9, 515.6, 518.3, 521.0, 523.7, 526.4, 529.1, 531.8, 534.5, 537.2, 539.9, 542.6, 545.3, 548.0, 550.7, 553.4, 556.1, 558.8, 561.5, 564.2, 566.9, 569.6, 572.3, 575.0, 577.7, 580.4, 583.1, 585.8, 588.5, 591.2, 593.9, 596.6, 599.3, 602.0, 604.7, 607.4, 610.1, 612.8, 615.5, 618.2, 620.9, 623.6, 626.3, 629.0, 631.7, 634.4, 637.1, 639.8, 642.5, 645.2, 647.9, 650.6, 653.3, 656.0, 658.7, 661.4, 664.1, 666.8, 669.5, 672.2, 674.9, 677.6, 680.3, 683.0, 685.7, 688.4, 691.1, 693.8, 696.5, 699.2, 701.9, 704.6, 707.3, 710.0, 712.7, 715.4, 718.1, 720.8, 723.5, 726.2, 728.9, 731.6, 734.3, 737.0, 739.7, 742.4, 745.1, 747.8, 750.5, 753.2, 755.9, 758.6, 761.3, 764.0, 766.7, 769.4, 772.1, 774.8, 777.5, 780.2, 782.9, 785.6, 788.3, 791.0, 793.7, 796.4, 799.1, 801.8, 804.5, 807.2, 809.9, 812.6, 815.3, 818.0, 820.7, 823.4, 826.1, 828.8, 831.5, 834.2, 836.9, 839.6, 842.3, 845.0, 847.7, 850.4, 853.1, 855.8, 858.5, 861.2, 863.9, 866.6, 869.3, 872.0, 874.7, 877.4, 880.1, 882.8, 885.5, 888.2, 890.9, 893.6, 896.3, 899.0, 901.7, 904.4, 907.1, 909.8, 912.5, 915.2, 917.9, 920.6, 923.3, 926.0, 928.7, 931.4, 934.1, 936.8, 939.5, 942.2, 944.9, 947.6, 950.3, 953.0, 955.7, 958.4, 961.1, 963.8, 966.5, 969.2, 971.9, 974.6, 977.3, 980.0, 982.7, 985.4, 988.1, 990.8, 993.5, 996.2, 998.9, 1001.6, 1004.3, 1007.0, 1009.7, 1012.4, 1015.1, 1017.8, 1020.5, 1023.2, 1025.9, 1028.6, 1031.3, 1034.0, 1036.7, 1039.4, 1042.1, 1044.8, 1047.5, 1050.2, 1052.9, 1055.6, 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2408.3, 2411.0, 2413.7, 2416.4, 2419.1, 2421.8, 2424.5, 2427.2, 2429.9, 2432.6, 2435.3, 2438.0, 2440.7, 2443.4, 2446.1, 2448.8, 2451.5, 2454.2, 2456.9, 2459.6, 2462.3, 2465.0, 2467.7, 2470.4, 2473.1, 2475.8, 2478.5, 2481.2, 2483.9, 2486.6, 2489.3, 2492.0, 2494.7, 2497.4, 2500.1, 2502.8, 2505.5, 2508.2, 2510.9, 2513.6, 2516.3, 2519.0, 2521.7, 2524.4, 2527.1, 2529.8, 2532.5, 2535.2, 2537.9, 2540.6, 2543.3, 2546.0, 2548.7, 2551.4, 2554.1, 2556.8, 2559.5, 2562.2, 2564.9, 2567.6, 2570.3, 2573.0, 2575.7, 2578.4, 2581.1, 2583.8, 2586.5, 2589.2, 2591.9, 2594.6, 2597.3, 2600.0, 2602.7, 2605.4, 2608.1, 2610.8, 2613.5, 2616.2, 2618.9, 2621.6, 2624.3, 2627.0, 2629.7, 2632.4, 2635.1, 2637.8, 2640.5, 2643.2, 2645.9, 2648.6, 2651.3, 2654.0, 2656.7, 2659.4, 2662.1, 2664.8, 2667.5, 2670.2, 2672.9, 2675.6, 2678.3, 2681.0, 2683.7, 2686.4, 2689.1, 2691.8, 2694.5, 2697.2, 2700.0, 2702.7, 2705.4, 2708.1, 2710.8, 2713.5, 2716.2, 2718.9, 2721.6, 2724.3, 2727.0, 2729.7, 2732.4, 2735.1, 2737.8, 2740.5, 2743.2, 2745.9, 2748.6, 2751.3, 2754.0, 2756.7, 2759.4, 2762.1, 2764.8, 2767.5, 2770.2, 2772.9, 2775.6, 2778.3, 2781.0, 2783.7, 2786.4, 2789.1, 2791.8, 2794.5, 2797.2, 2800.0, 2802.7, 2805.4, 2808.1, 2810.8, 2813.5, 2816.2, 2818.9, 2821.6, 2824.3, 2827.0, 2829.7, 2832.4, 2835.1, 2837.8, 2840.5, 2843.2, 2845.9, 2848.6, 2851.3, 2854.0, 2856.7, 2859.4, 2862.1, 2864.8, 2867.5, 2870.2, 2872.9, 2875.6, 2878.3, 2881.0, 2883.7, 2886.4, 2889.1, 2891.8, 2894.5, 2897.2, 2900.0, 2902.7, 2905.4, 2908.1, 2910.8, 2913.5, 2916.2, 2918.9, 2921.6, 2924.3, 2927.0, 2929.7, 2932.4, 2935.1, 2937.8, 2940.5, 2943.2, 2945.9, 2948.6, 2951.3, 2954.0, 2956.7, 2959.4, 2962.1, 2964.8, 2967.5, 2970.2, 2972.9, 2975.6, 2978.3, 2981.0, 2983.7, 2986.4, 2989.1, 2991.8, 2994.5, 2997.2, 3000.0, 3002.7, 3005.4, 3008.1, 3010.8, 3013.5, 3016.2, 3018.9, 3021.6, 3024.3, 3027.0, 3029.7, 3032.4, 3035.1, 3037.8, 3040.5, 3043.2, 3045.9, 3048.6, 3051.3, 3054.0, 3056.7, 3059.4, 3062.1, 3064.8, 3067.5, 3070.2, 3072.9, 3075.6, 3078.3, 3081.0, 3083.7, 3086.4, 3089.1, 3091.8, 3094.5, 3097.2, 3100.0, 3102.7, 3105.4, 3108.1, 3110.8, 3113.5, 3116.2, 3118.9, 3121.6, 3124.3, 3127.0, 3129.7, 3132.4, 3135.1, 3137.8, 3140.5, 3143.2, 3145.9, 3148.6, 3151.3, 3154.0, 3156.7, 3159.4, 3162.1, 3164.8, 3167.5, 3170.2, 3172.9, 3175.6, 3178.3, 3181.0, 3183.7, 3186.4, 3189.1, 3191.8, 3194.5, 3197.2, 3200.0, 3202.7, 3205.4, 3208.1, 3210.8, 3213.5, 3216.2, 3218.9, 3221.6, 3224.3, 3227.0, 3229.7, 3232.4, 3235.1, 3237.8, 3240.5, 3243.2, 3245.9, 3248.6, 3251.3, 3254.0, 3256.7, 3259.4, 3262.1, 3264.8, 3267.5, 3270.2, 3272.9, 3275.6, 3278.3, 3281.0, 3283.7, 3286.4, 3289.1, 3291.8, 3294.5, 3297.2, 3300.0, 3302.7, 3305.4, 3308.1, 3310.8, 3313.5, 3316.2, 3318.9, 3321.6, 3324.3, 3327.0, 3329.7, 3332.4, 3335.1, 3337.8, 3340.5, 3343.2, 3345.9, 3348.6, 3351.3, 3354.0, 3356.7, 3359.4, 3362.1, 3364.8, 3367.5, 3370.2, 3372.9, 3375.6, 3378.3, 3381.0, 3383.7, 3386.4, 3389.1, 3391.8, 3394.5, 3397.2, 3400.0, 3402.7, 3405.4, 3408.1, 3410.8, 3413.5, 3416.2, 3418.9, 3421.6, 3424.3, 3427.0, 3429.7, 3432.4, 3435.1, 3437.8, 3440.5, 3443.2, 3445.9, 3448.6, 3451.3, 3454.0, 3456.7, 3459.4, 3462.1, 3464.8, 3467.5, 3470.2, 3472.9, 3475.6, 3478.3, 3481.0, 3483.7, 3486.4, 3489.1, 3491.8, 3494.5, 3497.2, 3500.0, 3502.7, 3505.4, 3508.1, 3510.8, 3513.5, 3516.2, 3518.9, 3521.6, 3524.3, 3527.0, 3529.7, 3532.4, 3535.1, 3537.8, 3540.5, 3543.2, 3545.9, 3548.6, 3551.3, 3554.0, 3556.7, 3559.4, 3562.1, 3564.8, 3567.5, 3570.2, 3572.9, 3575.6, 3578.3, 3581.0, 3583.7, 3586.4, 3589.1, 3591.8, 3594.5, 3597.2, 3600.0, 3602.7, 3605.4, 3608.1, 3610.8, 3613.5, 3616.2, 3618.9, 3621.6, 3624.3, 3627.0, 3629.7, 3632.4, 3635.1, 3637.8, 3640.5, 3643.2, 3645.9, 3648.6, 3651.3, 3654.0, 3656.7, 3659.4, 3662.1, 3664.8, 3667.5, 3670.2, 3672.9, 3675.6, 3678.3, 3681.0, 3683.7, 3686.4, 3689.1, 3691.8, 3694.5, 3697.2, 3700.0, 3702.7, 3705.4, 3708.1, 3710.8, 3713.5, 3716.2, 3718.9, 3721.6, 3724.3, 3727.0, 3729.7, 3732.4, 3735.1, 3737.8, 3740.5, 3743.2, 3745.9, 3748.6, 3751.3, 3754.0, 3756.7, 3759.4, 3762.1, 3764.8, 3767.5, 3770.2, 3772.9, 3775.6, 3778.3, 3781.0, 3783.7, 3786.4, 3789.1, 3791.8, 3794.5, 3797.2, 3800.0, 3802.7, 3805.4, 3808.1, 3810.8, 3813.5, 3816.2, 3818.9, 3821.6, 3824.3, 3827.0, 3829.7, 3832.4, 3835.1, 3837.8, 3840.5, 3843.2, 3845.9, 3848.6, 3851.3, 3854.0, 3856.7, 3859.4, 3862.1, 3864.8, 3867.5, 3870.2, 3872.9, 3875.6, 3878.3, 3881.0, 3883.7, 3886.4, 3889.1, 3891.8, 3894.5, 3897.2, 3900.0, 3902.7, 3905.4, 3908.1, 3910.8, 3913.5, 3916.2, 3918.9, 3921.6, 3924.3, 3927.0, 3929.7, 3932.4, 3935.1, 3937.8, 3940.5, 3943.2, 3945.9, 3948.6, 3951.3, 3954.0, 3956.7, 3959.4, 3962.1, 3964.8, 3967.5, 3970.2, 3972.9, 3975.6, 3978.3, 3981.0, 3983.7, 3986.4, 3989.1, 3991.8, 3994.5, 3997.2, 4000.0, 4002.7, 4005.4, 4008.1, 4010.8, 4013.5, 4016.2, 4018.9, 4021.6, 4024.3, 4027.0, 4029.7, 4032.4, 4035.1, 4037.8, 4040.5, 4043.2, 4045.9, 4048.6, 4051.3, 4054.0, 4056.7, 4059.4, 4062.1, 4064.8, 4067.5, 4070.2, 4072.9, 4075.6, 4078.3, 4081.0, 4083.7, 4086.4, 4089.1, 4091.8, 4094.5, 4097.2, 4100.0, 4102.7, 4105.4, 4108.1, 4110.8, 4113.5, 4116.2, 4118.9, 4121.6, 4124.3, $		

#	ARTICLE	IF	CITATIONS
19	A search for a doubly-charged Higgs boson in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ . European Physical Journal C, 2012, 72, 1.	1.4	129
20	Measurement of differential top-quark-pair production cross sections in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ . European Physical Journal C, 2013, 73, 1.	1.4	125
21	Evidence for the 125 GeV Higgs boson decaying to a pair of $\tilde{l}$ , leptons. Journal of High Energy Physics, 2014, 2014, 1.	1.6	123
22	Precision luminosity measurement in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ in 2015 and 2016 at CMS. European Physical Journal C, 2021, 81, 800.	1.4	123
23	Searches for long-lived charged particles in pp collisions at $\sqrt{s} = 7$ and 8 TeV. Journal of High Energy Physics, 2013, 2013, 1.	1.6	118
24	Search for a light charged Higgs boson in top quark decays in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ . Journal of High Energy Physics, 2012, 2012, 1.	1.6	117
25	Charged-particle nuclear modification factors in PbPb and pPb collisions at $\sqrt{s_{NN}} = 5.02 \text{ TeV}$ . Journal of High Energy Physics, 2017, 2017, 1.	1.6	103
26	Measurements of properties of the Higgs boson decaying into the four-lepton final state in pp collisions at $\sqrt{s} = 13 \text{ TeV}$ . Journal of High Energy Physics, 2017, 2017, 1.	1.6	101
27	Search for new physics in the multijet and missing transverse momentum final state in proton-proton collisions at $\sqrt{s} = 8 \text{ TeV}$ . Journal of High Energy Physics, 2014, 2014, 1.	1.6	100
28	Search for new phenomena with the $M_{T2}$ variable in the all-hadronic final state produced in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ . European Physical Journal C, 2017, 77, 710.	1.4	98
29	Search for supersymmetry in hadronic final states using $M_{T2}$ in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ . Journal of High Energy Physics, 2012, 2012, 1.	1.6	95
30	Searches for invisible decays of the Higgs boson in pp collisions at $\sqrt{s} = 7, 8$ , and 13 TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	95
31	Search for a Higgs boson in the mass range from 145 to 1000 GeV decaying to a pair of W or Z bosons. Journal of High Energy Physics, 2015, 2015, 1.	1.6	92
32	Measurements of differential and double-differential Drell-Yan cross sections in proton-proton collisions at $\sqrt{s} = 8 \text{ TeV}$ . European Physical Journal C, 2015, 75, 147.	1.4	88
33	Search for high-mass resonances in dilepton final states in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ . Journal of High Energy Physics, 2018, 2018, 1.	1.6	86
34	Measurement of jet fragmentation into charged particles in pp and PbPb collisions at $\sqrt{s_{NN}} = 2.76 \text{ TeV}$ . Journal of High Energy Physics, 2012, 2012, 1.	1.6	85
35	Study of double parton scattering using W + 2-jet events in proton-proton collisions at $\sqrt{s} = 7 \text{ TeV}$ . Journal of High Energy Physics, 2014, 2014, 1.	1.6	85
36	Search for massive resonances in dijet systems containing jets tagged as W or Z boson decays in pp collisions at $\sqrt{s} = 8 \text{ TeV}$ . Journal of High Energy Physics, 2014, 2014, 1.	1.6	85

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38	Performance of the CMS Level-1 trigger in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of Instrumentation, 2020, 15, P10017-P10017.	0.5	84
39	Measurement of the single-top-quark t-channel cross section in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	83
40	Measurement of the differential cross section and charge asymmetry for inclusive $\mathbf{p} \rightarrow \mathbf{W}^{\pm} + X$ production at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 469.	1.4	83
41	Measurement of prompt and nonprompt charmonium suppression in $\sqrt{s_{NN}} = 5.02$ TeV collisions at $\sqrt{s} = 5.02$ TeV. European Physical Journal C, 2018, 78, 509.	1.4	83
42	Suppression and azimuthal anisotropy of prompt and nonprompt $J/\psi$ production in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. European Physical Journal C, 2017, 77, 252.	1.4	82
43	Search for neutral MSSM Higgs bosons decaying to a pair of tau leptons in pp collisions. Journal of High Energy Physics, 2014, 2014, 1.	1.6	81
44	Search for a charged Higgs boson in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	1.6	81
45	Search for physics beyond the standard model in dilepton mass spectra in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	1.6	78
46	Search for production of four top quarks in final states with same-sign or multiple leptons in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2020, 80, 75.	1.4	78
47	Studies of azimuthal dihadron correlations in ultra-central PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	1.6	77
48	Study of exclusive two-photon production of $W+W^*$ in pp collisions at $\sqrt{s} = 7$ TeV and constraints on anomalous quartic gauge couplings. Journal of High Energy Physics, 2013, 2013, 1.	1.6	75
49	Studies of dijet transverse momentum balance and pseudorapidity distributions in pPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV. European Physical Journal C, 2014, 74, 1.	1.4	75
50	Measurement of the $W^+W^-$ cross section in pp collisions at $\sqrt{s} = 8$ TeV and limits on anomalous gauge couplings. European Physical Journal C, 2016, 76, 401.	1.4	74
51	Measurement of the $X(3872)$ production cross section via decays to $J/\psi + \bar{\psi}\psi$ in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	1.6	73
52	Search for a standard model Higgs boson produced in association with a top-quark pair and decaying to bottom quarks using a matrix element method. European Physical Journal C, 2015, 75, 251.	1.4	73
53	Measurement of the t-channel single-top-quark production cross section and of the $ V_{tb} $ CKM matrix element in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	1.6	70
54	Searches for physics beyond the standard model with the $M_{T2}$ variable in hadronic final states with and without disappearing tracks in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2020, 80, 3.	1.4	70

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55	Measurement of the $\sigma(\overline{t}t)$ production cross section in the dilepton channel in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	69
56	Search for massive resonances decaying into pairs of boosted bosons in semi-leptonic final states at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	1.6	69
57	Search for anomalous production of multilepton events in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	68
58	Search for a standard-model-like Higgs boson with a mass in the range 145 to 1000 GeV at the LHC. European Physical Journal C, 2013, 73, 2469.	1.4	68
59	Measurement of the differential and double-differential Drell-Yan cross sections in proton-proton collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	1.6	68
60	Measurement of the inclusive 3-jet production differential cross section in proton-proton collisions at 7 TeV and determination of the strong coupling constant in the TeV range. European Physical Journal C, 2015, 75, 186.	1.4	68
61	Measurement of the $\sigma(\overline{t}t)$ production cross section, the top quark mass, and the strong coupling constant using dilepton events in pp collisions at. European Physical Journal C, 2019, 79, 368.	1.4	68
62	Measurement of differential cross sections for the production of a pair of isolated photons in pp collisions at $\sqrt{s}=7$ TeV. European Physical Journal C, 2014, 74, 3129.	1.4	65
63	Measurement of the sum of WW and WZ production with W+dijet events in pp collisions at $\sqrt{s}=7$ TeV. European Physical Journal C, 2013, 73, 2283.	1.4	64
64	Search for new physics in same-sign dilepton events in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2016, 76, 439.	1.4	64
65	Search for electroweak production of charginos and neutralinos in multilepton final states in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	63
66	Measurement of the $W+W\gamma$ cross section in pp collisions at $\sqrt{s}=7$ TeV and limits on anomalous $WW\gamma^3$ and $WWZ$ couplings. European Physical Journal C, 2013, 73, 1.	1.4	62
67	Measurement of differential cross sections for Higgs boson production in the diphoton decay channel in pp collisions at $\sqrt{s}=8$ TeV. European Physical Journal C, 2016, 76, 13.	1.4	62
68	Search for dark matter produced with an energetic jet or a hadronically decaying W or Z boson at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	62
69	Measurement of the inelastic proton-proton cross section at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	62
70	Measurement of prompt $J/\psi$ pair production in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	1.6	61
71	Measurement of the ratio of the inclusive 3-jet cross section to the inclusive 2-jet cross section in pp collisions at $\sqrt{s}=7$ TeV and first determination of the strong coupling constant in the TeV range. European Physical Journal C, 2013, 73, 1.	1.4	60
72	Search for anomalous $\overline{t}t$ production in the highly-boosted all-hadronic final state. Journal of High Energy Physics, 2012, 2012, 1.	1.6	58

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74	Nuclear effects on the transverse momentum spectra of charged particles in pPb collisions at $\sqrt{s_{\mathrm{NN}}} = 5.02$ s NN = 5.02 TeV. European Physical Journal C, 2015, 75, 237.	1.4	58
75	Measurement of the weak mixing angle using the forward–backward asymmetry of Drell–Yan events in $\mathrm{p}\mathrm{p}$ collisions at 8 TeV. European Physical Journal C, 2018, 78, 701.	1.4	58

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92	Search for the associated production of the Higgs boson with a top-quark pair. Journal of High Energy Physics, 2014, 2014, 1.	1.6	51
93	Study of the underlying event at forward rapidity in pp collisions at $\sqrt{s}=0.9, 2.76, 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	1.6	50
94	Search for a heavy pseudoscalar boson decaying to a Z and a Higgs boson at $\sqrt{s}=13$ , ext {TeV} ext {V} \$. European Physical Journal C, 2019, 79, 564.	1.4	50
95	Search for leptonic decays of $W\hat{e}^2$ bosons in pp collisions at $\sqrt{s} = \{7\}$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	49
96	Measurement of pseudorapidity distributions of charged particles in proton-proton collisions at $\sqrt{s} = 8$ TeV by the CMS and TOTEM experiments. European Physical Journal C, 2014, 74, 1.	1.4	49
97	Search for new physics in events with same-sign dileptons and jets in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	1.6	48
98	Observation of $Y(1S)$ pair production in proton-proton collisions at $s = 8$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	48
99	Search for vector-like quarks in events with two oppositely charged leptons and jets in proton-proton collisions at $\sqrt{s} = 13$ , ext {TeV} ext {V} \$ \$ s = 13 Te. European Physical Journal C, 2019, 79, 364.	1.4	48
100	Measurement of the cross section and angular correlations for associated production of a Z boson with b hadrons in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	1.6	47
101	Search for narrow resonances and quantum black holes in inclusive and b-tagged dijet mass spectra from pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	1.6	46
102	Search for disappearing tracks in proton-proton collisions at $s = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	1.6	46
103	Search for third-generation scalar leptoquarks decaying to a top quark and a $\tau$ , lepton at $\sqrt{s}=13$ , ext {TeV} ext {V} \$ \$ s = 13 Te. European Physical Journal C, 2018, 78, 707.	1.4	46
104	Search for heavy bottom-like quarks in $4.9 \text{ fb}^{-1}$ of pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	45
105	Search for microscopic black holes in pp collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	1.6	44
106	Search for a light charged Higgs boson decaying to $c \bar{s}$ in pp collisions at $s = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1-37.	1.6	44
107	Search for decays of stopped long-lived particles produced in proton-proton collisions at $\sqrt{s}= 8$ , ext {TeV} \$ \$ s = 8 TeV. European Physical Journal C, 2015, 75, 151.	1.4	44
108	Search for standard model production of four top quarks with same-sign and multilepton final states in proton-proton collisions at $\sqrt{s} = 13$ , ext {TeV} \$ \$ s = 13 TeV. European Physical Journal C, 2018, 78, 140.	1.4	44

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110	Identification techniques for highly boosted W bosons that decay into hadrons. Journal of High Energy Physics, 2014, 2014, 1.	1.6	43
111	Constraints on the pMSSM, AMSB model and on other models from the search for long-lived charged particles in proton-proton collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2015, 75, 325.	1.4	43
112	Search for natural and split supersymmetry in proton-proton collisions at $\sqrt{s} = 13$ TeV in final states with jets and missing transverse momentum. Journal of High Energy Physics, 2018, 2018, 1.	1.6	43
113	Measurement of the top-quark mass in $t\bar{t}$ events with dilepton final states in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2012, 72, 1.	1.4	42
114	Evidence for exclusive $\hat{t}\hat{t}^* W + W \hat{t}^*$ production and constraints on anomalous quartic gauge couplings in pp collisions at $s = 7$ and 8 TeV. Journal of High Energy Physics, 2016, 2016, 1.	1.6	42
115	Search for low mass vector resonances decaying into quark-antiquark pairs in proton-proton collisions at $s = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	42
116	Search for electroweak production of charginos and neutralinos using leptonic final states in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	41
117	Measurement of the $t\bar{t}\hat{A}^-$ production cross section in the $e\bar{\nu}_e$ channel in proton-proton collisions at $s = 7$ and 8 TeV. Journal of High Energy Physics, 2016, 2016, 1.	1.6	41
118	Measurement of the $t\bar{t}\hat{A}^-$ production cross section in the all-jets final state in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 128.	1.4	41
119	Search for third-generation scalar leptoquarks and heavy right-handed neutrinos in final states with two tau leptons and two jets in proton-proton collisions at $s = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	41
120	Measurement of the $t\bar{t}\hat{A}^-$ production cross section using events in the $e\bar{\nu}_e$ final state in pp collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2017, 77, 172.	1.4	40
121	Search for new physics in dijet angular distributions using proton-proton collisions at $\sqrt{s} = 13$ TeV and constraints on dark matter and other models. European Physical Journal C, 2018, 78, 789.	1.4	40
122	Measurement of the top quark mass in the all-jets final state at $\sqrt{s} = 13$ TeV and combination with the lepton+jets channel. European Physical Journal C, 2019, 79, 313.	1.4	40
123	Measurement of the Higgs boson production rate in association with top quarks in final states with electrons, muons, and hadronically decaying tau leptons at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 378.	1.4	40
124	Inclusive b-jet production in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	39
125	Search for the standard model Higgs boson produced in association with a top-quark pair in pp collisions at the LHC. Journal of High Energy Physics, 2013, 2013, 1.	1.6	39
126	Measurement of the ZZ production cross section and search for anomalous couplings in $2\gamma, 2\ell, \ell\ell\gamma$ final states in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	1.6	39



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127	Measurement of the production cross sections for a Z boson and one or more b jets in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	1.6	39
128	Measurement of differential cross sections for $Z$ boson production in association with jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2018, 78, 965.	1.4	39
129	Measurement of the top-quark mass in $t\bar{t}$ events with lepton+jets final states in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	38
130	Search for dark matter produced in association with heavy-flavor quark pairs in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2017, 77, 845.	1.4	38
131	Search for heavy resonances that decay into a vector boson and a Higgs boson in hadronic final states at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2017, 77, 636.	1.4	38
132	Evidence for associated production of a Higgs boson with a top quark pair in final states with electrons, muons, and hadronically decaying $\tilde{l}$ , leptons at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	38
133	Searches for third-generation squark production in fully hadronic final states in proton-proton collisions at $s = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	1.6	37
134	Measurement of the WZ production cross section in pp collisions at $\sqrt{s} = 7$ and 8 TeV and search for anomalous triple gauge couplings at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2017, 77, 236.	1.4	37
135	Search for resonant and nonresonant Higgs boson pair production in the $b\bar{b}\ell\ell$ final state in proton-proton collisions at $s = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	36
136	Measurement of the top-quark mass in all-jets $t\bar{t}$ events in pp collisions at $\sqrt{s}=7$ TeV. European Physical Journal C, 2014, 74, 2758.	1.4	35
137	Search for heavy Majorana neutrinos in $e^{\pm}e^{\pm}$ jets and $e^{\pm}\ell^{\pm}$ jets events in proton-proton collisions at $s = 8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	1.6	35
138	Search for anomalous Wtb couplings and flavour-changing neutral currents in t-channel single top quark production in pp collisions at $s = 7$ and 8 TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	35
139	Measurement of exclusive $\Upsilon$ photoproduction from protons in $p\bar{p}$ collisions at $\sqrt{s_{NN}} = 5.02$ TeV. European Physical Journal C, 2019, 79, 277.	1.4	35
140	Measurements of production cross sections of the Higgs boson in the four-lepton final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 488.	1.4	35
141	Observation of Z decays to four leptons with the CMS detector at the LHC. Journal of High Energy Physics, 2012, 2012, 1.	1.6	34
142	Search for microscopic black holes in pp collisions at $\sqrt{s} = \sqrt{7\text{TeV}}$ . Journal of High Energy Physics, 2012, 2012, 1.	1.6	34
143	Search for supersymmetry in final states with missing transverse energy and 0, 1, 2, or 3 b-quark jets in 7 TeV pp collisions using the variable $\hat{E}_T$ . Journal of High Energy Physics, 2013, 2013, 1.	1.6	34
144	Searches for supersymmetry using the M T2 variable in hadronic events produced in pp collisions at 8 TeV. Journal of High Energy Physics, 2015, 2015, 1.	1.6	34

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145	Measurement of $\sigma(\text{t}\bar{\text{t}})$ production with additional jet activity, including $\text{b}\bar{\text{b}}$ quark jets, in the dilepton decay channel using pp collisions at $\sqrt{s} = 8, \text{ext}\{\text{TeV}\}$ $s = 8 \text{ TeV}$ . European Physical Journal C, 2016, 76, 379.	1.4	34
146	Measurements of the $\sigma(\text{t}\bar{\text{t}})$ production cross section in lepton+jets final states in pp collisions at $8, \text{ext}\{\text{TeV}\}$ $\text{TeV}$ and ratio of 8 to $7\sqrt{s}$ $\text{TeV}$ cross sections. European Physical Journal C, 2017, 77, 15.	1.4	34
147	Measurement of the top quark mass with lepton+jets final states using $\text{pp} \rightarrow \text{p} \bar{\text{p}}$ collisions at $\sqrt{s}=13, \text{ext}\{\text{TeV}\}$ $s$ . European Physical Journal C, 2018, 78, 891.	1.4	34
148	Search for single production of vector-like quarks decaying to a top quark and a $\text{W}$ boson in proton-proton collisions at $\sqrt{s} = 13, \text{ext}\{\text{TeV}\}$ $s = 13 \text{ TeV}$ . European Physical Journal C, 2019, 79, 90.	1.4	34
149	Measurement of the underlying event in the Drell-Yan process in proton-proton collisions at $\sqrt{s} = 7\text{--}13 \text{ TeV}$ . European Physical Journal C, 2012, 72, 1.	1.4	33
150	Search for new physics in events with same-sign dileptons and b jets in pp collisions at $\sqrt{s}=8 \text{ TeV}$ . Journal of High Energy Physics, 2013, 2013, 1.	1.6	33
151	Search for heavy resonances decaying to two Higgs bosons in final states containing four b quarks. European Physical Journal C, 2016, 76, 371.	1.4	33
152	Measurement of exclusive $\sigma(\text{pp} \rightarrow \text{p} \bar{\text{p}} \text{photon})$ in ultraperipheral pPb collisions at $\sqrt{s_{\text{NN}}}=5.02, \text{ext}\{\text{TeV}\}$ $s$ . European Physical Journal C, 2019, 79, 702.	1.4	33
153	Search for dark matter produced in association with a leptonically decaying $\text{Z}$ boson in proton-proton collisions at $\sqrt{s}=13, \text{ext}\{\text{TeV}\}$ $s$ . European Physical Journal C, 2021, 81, 13.	1.4	33
154	Search for top squark pair production using dilepton final states in $\text{pp} \rightarrow \text{pp}$ collision data collected at $\sqrt{s}=13, \text{ext}\{\text{TeV}\}$ $s$ . European Physical Journal C, 2021, 81, 3.	1.4	33
155	Measurement of $\sigma(\text{pp} \rightarrow \text{t}\bar{\text{t}})$ normalised multi-differential cross sections in $\text{pp} \rightarrow \text{pp}$ collisions at $\sqrt{s}=13, \text{ext}\{\text{TeV}\}$ $s$ , and simultaneous determination of the strong coupling strength, top quark pole mass, and parton distribution functions. European Physical Journal C, 2020, 80, 1.	1.4	33
156	Search in leptonic channels for heavy resonances decaying to long-lived neutral particles. Journal of High Energy Physics, 2013, 2013, 1.	1.6	32
157	Jet and underlying event properties as a function of charged-particle multiplicity in proton-proton collisions at $\sqrt{s} = 7\text{--}13 \text{ TeV}$ . European Physical Journal C, 2013, 73, 2674.	1.4	32
158	Measurements of the $\sigma(\text{Z} \rightarrow \text{e}^+ \text{e}^-)$ production cross sections in the $\text{pp} \rightarrow \text{Z} \nu \bar{\nu}$ channel in proton-proton collisions at $\sqrt{s} = 7\text{--}8 \text{ TeV}$ . European Physical Journal C, 2015, 75, 511.	1.4	32
159	Searches for pair production of third-generation squarks in $\sqrt{s}=13\text{--}13 \text{ TeV}$ pp collisions. European Physical Journal C, 2017, 77, 327.	1.4	32
160	Measurement of the triple-differential cross section for photon + jets production in proton-proton collisions at $\sqrt{s} = 7 \text{ TeV}$ . Journal of High Energy Physics, 2014, 2014, 1.	1.6	31
161	Measurement of electroweak production of two jets in association with a Z boson in proton-proton collisions at $\sqrt{s}=8, \text{ext}\{\text{TeV}\}$ $s = 8 \text{ TeV}$ . European Physical Journal C, 2015, 75, 66.	1.4	31
162	Measurement of transverse momentum relative to dijet systems in PbPb and pp collisions at $\sqrt{s_{\text{NN}}}=2.76 \text{ TeV}$ . Journal of High Energy Physics, 2016, 2016, 1.	1.6	31

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163	Search for top squark pair production in pp collisions at $\sqrt{s}=13$ TeV using single lepton events. Journal of High Energy Physics, 2017, 2017, 1.	1.6	31
164	A multi-dimensional search for new heavy resonances decaying to boosted $W^+W^-$ , $W^+Z$ , or $W^-Z$ boson pairs in the dijet final state at $\sqrt{s}=13$ TeV. European Physical Journal C, 2020, 80, 237.	1.4	31
165	Search for new physics in events with same-sign dileptons and b-tagged jets in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	30
166	Search for a Higgs boson in the decay channel $H \rightarrow ZZ^* \rightarrow q\bar{q}$ , $H \rightarrow \gamma\gamma$ , $H \rightarrow \tau\tau$ in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	30
167	Measurement of the W-boson helicity in top-quark decays from $t\bar{t}$ production in lepton+jets events in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	1.6	30
168	Search for neutral MSSM Higgs bosons decaying into a pair of bottom quarks. Journal of High Energy Physics, 2015, 2015, 1.	1.6	30
169	Search for massive WH resonances decaying into the $u\bar{b}$ final state at $\sqrt{s}=8$ TeV. European Physical Journal C, 2016, 76, 237.	1.4	30
170	Measurements of the associated production of a Z boson and b jets in pp collisions at $\sqrt{s}=8$ TeV. European Physical Journal C, 2017, 77, 751.	1.4	30
171	Measurement of inclusive jet production and nuclear modifications in pPb collisions at $\sqrt{s_{NN}}=5.02$ TeV. European Physical Journal C, 2016, 76, 372.	1.4	29
172	Correlations between jets and charged particles in PbPb and pp collisions at $\sqrt{s_{NN}}=2.76$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	1.6	29
173	A search for new phenomena in pp collisions at $\sqrt{s}=13$ TeV in final states with missing transverse momentum and at least one jet using the $\alpha_T$ variable. European Physical Journal C, 2017, 77, 294.	1.4	29
174	Search for light bosons in decays of the 125 GeV Higgs boson in proton-proton collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	29
175	Search for dark matter produced in association with a Higgs boson decaying to a pair of bottom quarks in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2019, 79, 280.	1.4	29
176	Search for $t\bar{t}H$ production in the $H \rightarrow b\bar{b}$ decay channel with leptonic $t\bar{t}$ decays in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	1.6	28
177	Measurements of differential Z boson production cross sections in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	1.6	28
178	Study of Z production in PbPb and pp collisions at $\sqrt{s_{NN}}=2.76$ TeV in the dimuon and dielectron decay channels. Journal of High Energy Physics, 2015, 2015, 1.	1.6	27
179	Search for anomalous single top quark production in association with a photon in pp collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	1.6	27
180	Search for pair production of vector-like T and B quarks in single-lepton final states using boosted jet substructure in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	27

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182	Performance of the reconstruction and identification of high-momentum muons in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of Instrumentation, 2020, 15, P02027-P02027.	0.5	27
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184	Search for resonant $\overline{t}t$ production in lepton+jets events in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	26
185	Ratios of dijet production cross sections as a function of the absolute difference in rapidity between jets in proton-proton collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2012, 72, 1.	1.4	26
186	Search for the standard model Higgs boson in the $H \rightarrow ZZ \rightarrow 4\ell$ channel in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	26
187	Search for $W \rightarrow tb$ decays in the lepton + jets final state in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	1.6	26
188	Measurement of the W boson helicity in events with a single reconstructed top quark in pp collisions at $s = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	1.6	26
189	Measurement of the inclusive jet cross section in pp collisions at $\sqrt{s} = 2.76$ TeV. European Physical Journal C, 2016, 76, 1.	1.4	26
190	Forward-backward asymmetry of Drell-Yan lepton pairs in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 325.	1.4	25
191	Search for high-mass resonances in final states with a lepton and missing transverse momentum at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	25
192	Measurement of the $t\bar{t}$ production cross section in the $\ell\ell$ +jets channel in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2013, 73, 1.	1.4	24
193	Search for physics beyond the standard model in events with two leptons, jets, and missing transverse momentum in pp collisions at $s = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	1.6	24
194	Search for third-generation scalar leptoquarks in the $t\bar{t}$ channel in proton-proton collisions at $s = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	1.6	24
195	Search for vector-like T quarks decaying to top quarks and Higgs bosons in the all-hadronic channel using jet substructure. Journal of High Energy Physics, 2015, 2015, 1.	1.6	24
196	Measurements of $pp \rightarrow ZZ$ production cross sections and constraints on anomalous triple gauge couplings at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 200.	1.4	24
197	Measurement of WZ and ZZ production in pp collisions at $\sqrt{s} = 8$ TeV in final states with b-tagged jets. European Physical Journal C, 2014, 74, 2973.	1.4	23
198	Observation of top quark pairs produced in association with a vector boson in pp collisions at $s = 8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	1.6	23

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200	Search for heavy resonances decaying to tau lepton pairs in proton-proton collisions at $s = 13\,\mathrm{TeV}$ . Journal of High Energy Physics, 2017, 2017, 1.	1.6	23
201	Measurement of the transverse momentum spectra of weak vector bosons produced in proton-proton collisions at $s = 8\,\mathrm{TeV}$ . Journal of High Energy Physics, 2017, 2017, 1.	1.6	23
202	Measurement of the top quark mass using single top quark events in proton-proton collisions at $\sqrt{s}=8\,\mathrm{TeV}$ . European Physical Journal C, 2017, 77, 354.	1.4	23
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204	Search for physics beyond the standard model in events with jets and two same-sign or at least three charged leptons in proton-proton collisions at $\sqrt{s}=13\,\mathrm{TeV}$ . European Physical Journal C, 2020, 80, 752.	1.4	23
205	Search for dark matter and unparticles in events with a Z boson and missing transverse momentum in proton-proton collisions at $\sqrt{s}=13\,\mathrm{TeV}$ . Journal of High Energy Physics, 2017, 2017, 1.	1.6	23
206	Search for physics beyond the standard model in events with $\tilde{l}$ , leptons, jets, and large transverse momentum imbalance in pp collisions at $\sqrt{s}=7\,\mathrm{TeV}$ . European Physical Journal C, 2013, 73, 2493.	1.4	22
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208	Search for massive resonances decaying into WW, WZ or ZZ bosons in proton-proton collisions at $s = 13\,\mathrm{TeV}$ . Journal of High Energy Physics, 2017, 2017, 1.	1.6	22
209	Search for direct production of supersymmetric partners of the top quark in the all-jets final state in proton-proton collisions at $s = 13\,\mathrm{TeV}$ . Journal of High Energy Physics, 2017, 2017, 1.	1.6	22
210	Search for heavy neutrinos or third-generation leptoquarks in final states with two hadronically decaying $\tilde{l}$ , leptons and two jets in proton-proton collisions at $s = 13\,\mathrm{TeV}$ . Journal of High Energy Physics, 2017, 2017, 1.	1.6	22
211	Search for direct pair production of supersymmetric partners to the $\tilde{\tau}_1$ lepton in proton-proton collisions at $\sqrt{s}=13\,\mathrm{TeV}$ . European Physical Journal C, 2020, 80, 189.	1.4	22
212	Measurement of differential cross sections and charge ratios for t-channel single top quark production in proton-proton collisions at $\sqrt{s}=13\,\mathrm{TeV}$ . European Physical Journal C, 2020, 80, 370.	1.4	22
213	Search for associated production of a Z boson with a single top quark and for tZ flavour-changing interactions in pp collisions at $s = 8\,\mathrm{TeV}$ . Journal of High Energy Physics, 2017, 2017, 1.	1.6	21
214	A Deep Neural Network for Simultaneous Estimation of b Jet Energy and Resolution. Computing and Software for Big Science, 2020, 4, 10.	1.3	21
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216	Search for exotic resonances decaying into WZ/ZZ in pp collisions at $\sqrt{s}=7\,\mathrm{TeV}$ . Journal of High Energy Physics, 2013, 2013, 1.	1.6	20



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220	Azimuthal decorrelation of jets widely separated in rapidity in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	1.6	20
221	Search for $\overline{\mathbf{t}}\mathbf{t}\mathbf{H}$ production in the all-jet final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	20
222	Search for dark matter in events with energetic, hadronically decaying top quarks and missing transverse momentum at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	20
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227	Search for charged Higgs bosons produced in vector boson fusion processes and decaying into vector boson pairs in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 723.	1.4	19
228	Search for quark compositeness in dijet angular distributions from pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	18
229	Decomposing transverse momentum balance contributions for quenched jets in PbPb collisions at $\sqrt{s_{\mathbf{NN}}} = 2.76$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	1.6	18
230	Search for direct pair production of supersymmetric top quarks decaying to all-hadronic final states in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 460.	1.4	18
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232	Measurement of differential cross sections for inclusive isolated-photon and photon+jet production in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 20.	1.4	18
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254	Measurement of jet multiplicity distributions in $\mathrm{t}\bar{\mathrm{t}}$ production in pp collisions at $\sqrt{s}=7$ TeV. European Physical Journal C, 2014, 74, 3014.	1.4	16
255	Search for lepton flavour violating decays of heavy resonances and quantum black holes to an $\mu e$ pair in proton-proton collisions at $\sqrt{s}=8$ TeV. European Physical Journal C, 2016, 76, 317.	1.4	16
256	Measurement of dijet azimuthal decorrelation in pp collisions at $\sqrt{s}=8$ TeV. European Physical Journal C, 2016, 76, 536.	1.4	16
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258	Search for a massive resonance decaying into a Higgs boson and a W or Z boson in hadronic final states in proton-proton collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	1.6	16
259	Measurement of the production cross section of a W boson in association with two b jets in pp collisions at $\sqrt{s}=8$ TeV. European Physical Journal C, 2017, 77, 92.	1.4	16
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261	Search for new physics in top quark production in dilepton final states in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2019, 79, 886.	1.4	16
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264	Search for new physics in events with photons, jets, and missing transverse energy in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	1.6	15
265	Measurement of top quark polarisation in t-channel single top quark production. Journal of High Energy Physics, 2016, 2016, 1.	1.6	15
266	Search for electroweak production of charginos and neutralinos in WH events in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	15
267	Search for top quark decays via Higgs-boson-mediated flavor-changing neutral currents in pp collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	15
268	Measurement of the $\mathrm{t}\bar{\mathrm{t}}$ production cross section using events with one lepton and at least one jet in pp collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	15
269	Search for new physics with dijet angular distributions in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	15
270	Search for third-generation leptoquarks and scalar bottom quarks in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	14



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272	Search for s channel single top quark production in pp collisions at $\sqrt{s} = 7$ and 8 TeV. Journal of High Energy Physics, 2016, 2016, 1.	1.6	14
273	Search for supersymmetry in pp collisions at $\sqrt{s} = 13$ TeV in the single-lepton final state using the sum of masses of large-radius jets. Journal of High Energy Physics, 2016, 2016, 1.	1.6	14
274	Search for associated production of dark matter with a Higgs boson decaying to $b\overline{b}$ or $\tilde{\chi}^0_1\tilde{\chi}^0_1$ at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	14
275	Measurements of differential production cross sections for a Z boson in association with jets in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	14
276	Search for electroweak production of a vector-like quark decaying to a top quark and a Higgs boson using boosted topologies in fully hadronic final states. Journal of High Energy Physics, 2017, 2017, 1.	1.6	14
277	Search for supersymmetry in events with at least one photon, missing transverse momentum, and large transverse event activity in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	14
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279	Measurements of the pp $\tilde{t}^*WZ$ inclusive and differential production cross sections and constraints on charged anomalous triple gauge couplings at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	1.6	14
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281	Search for dark matter particles produced in association with a Higgs boson in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	1.6	14
282	Search for long-lived particles decaying to leptons with large impact parameter in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2022, 82, 153.	1.4	14
283	Measurement of the underlying event activity in pp collisions at $\sqrt{s} = 0.9$ and 7 TeV with the novel jet-area/median approach. Journal of High Energy Physics, 2012, 2012, 1.	1.6	13
284	Search for heavy quarks decaying into a top quark and a W or Z boson using lepton + jets events in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	1.6	13
285	Search for the associated production of a Higgs boson with a single top quark in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	1.6	13
286	Search for dark matter in proton-proton collisions at 8 TeV with missing transverse momentum and vector boson tagged jets. Journal of High Energy Physics, 2016, 2016, 1.	1.6	13
287	Search for single production of vector-like quarks decaying to a Z boson and a top or a bottom quark in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	13
288	Measurement of the underlying event activity in inclusive Z boson production in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	13

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290	Jet properties in PbPb and pp collisions at $\sqrt{s_{\mathrm{NN}}}=5.02$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	13
291	Search for supersymmetry in final states with two or three soft leptons and missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	1.6	13
292	Search for supersymmetry in the vector-boson fusion topology in proton-proton collisions at $s = 8$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	1.6	12
293	Phenomenological MSSM interpretation of CMS searches in pp collisions at $s = 7$ TeV and 8 TeV. Journal of High Energy Physics, 2016, 2016, 1.	1.6	12
294	Comparing transverse momentum balance of b jet pairs in pp and PbPb collisions at $\sqrt{s_{\mathrm{NN}}}=5.02$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	12
295	Search for decays of stopped exotic long-lived particles produced in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	12
296	Search for dark matter produced in association with a Higgs boson decaying to $\tilde{\chi}_1^0$ or $\tilde{\chi}_1^\pm$ , $\tilde{\chi}_2^0$ at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	12
297	Measurement of the energy density as a function of pseudorapidity in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2019, 79, 1.	1.4	12
298	Search for heavy resonances decaying into two Higgs bosons or into a Higgs boson and a W or Z boson in proton-proton collisions at 13 TeV. Journal of High Energy Physics, 2019, 2019, 1.	1.6	12
299	Measurement of the average very forward energy as a function of the track multiplicity at central pseudorapidities in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2019, 79, 893.	1.4	12
300	Development and validation of HERWIG <sup>7</sup> tunes from CMS underlying-event measurements. European Physical Journal C, 2021, 81, 312.	1.4	12
301	Search for a right-handed W boson and a heavy neutrino in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	1.6	12
302	Search for new physics with long-lived particles decaying to photons and missing energy in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	11
303	Search for the standard model Higgs boson in the $H \rightarrow ZZ \rightarrow 4\ell$ , $H \rightarrow Z\gamma$ , $H \rightarrow \gamma\gamma$ decay channel in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	11
304	Measurement of the $Z\tilde{\chi}_1^0$ production cross section in pp collisions at 8 TeV and search for anomalous triple gauge boson couplings. Journal of High Energy Physics, 2015, 2015, 1.	1.6	11
305	Search for electroweak production of charginos in final states with two $\tilde{\ell}$ , leptons in pp collisions at $s = 8$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	11
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308	Search for heavy resonances decaying into a vector boson and a Higgs boson in final states with charged leptons, neutrinos and b quarks at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	11
309	Search for a heavy resonance decaying to a pair of vector bosons in the lepton plus merged jet final state at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	11
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311	Study of the underlying event in top quark pair production in pp collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2019, 79, 123.	1.4	11
312	Measurement of electroweak production of a $W$ boson in association with two jets in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2020, 80, 43.	1.4	11
313	Measurement of the underlying event activity using charged-particle jets in proton-proton collisions at $\sqrt{s}=2.76$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	1.6	10
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315	Measurement of the inclusive energy spectrum in the very forward direction in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	10
316	Search for a light pseudoscalar Higgs boson produced in association with bottom quarks in pp collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	10
317	Study of dijet events with a large rapidity gap between the two leading jets in pp collisions at $\sqrt{s}=7$ TeV. European Physical Journal C, 2018, 78, 242.	1.4	10
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321	Search for lepton-flavor violating decays of heavy resonances and quantum black holes to $e\mu$ final states in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	9
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323	Search for a heavy resonance decaying to a top quark and a vector-like top quark in the lepton + jets final state in pp collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2019, 79, 1.	1.4	9
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326	Pseudorapidity distributions of charged hadrons in proton-lead collisions at $\sqrt{s_{\mathrm{NN}}}=5.02$ TeV and 8.16 TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	8
327	Search for a heavy resonance decaying into a Z boson and a Z or W boson in $2q$ final states at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	8
328	Azimuthal separation in nearly back-to-back jet topologies in inclusive 2- and 3-jet events in $\sqrt{s}=13$ TeV collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2019, 79, 773.	1.4	8
329	Search for new physics in final states with two opposite-sign, same-flavor leptons, jets, and missing transverse momentum in pp collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	1.6	8
330	Search for the standard model Higgs boson produced in association with W and Z bosons in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	7
331	Search for direct pair production of scalar top quarks in the single- and dilepton channels in proton-proton collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	1.6	7
332	Search for high-mass $Z\tilde{t}^3$ resonances in $e^+e^-\tilde{t}^3$ and $\tilde{t}^{1/4} + \tilde{t}^{3/4}$ final states in proton-proton collisions at $\sqrt{s}=8$ TeV and 13 TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	7
333	Study of central exclusive "Equation missing" $\leftarrow$ No EquationSource Format="TEX", only image $\rightarrow$ production in proton-proton collisions at $\sqrt{s}=5.02$ TeV and 13 TeV. European Physical Journal C, 2020, 80, 718.	1.4	7
334	Measurement of the cross section for production of $\bar{b} X b$ decaying to muons in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	6
335	Distributions of topological observables in inclusive three- and four-jet events in pp collisions at $\sqrt{s}=7$ TeV. European Physical Journal C, 2015, 75, 302.	1.4	6
336	Measurement of the mass of the top quark in decays with a $J/\psi$ meson in pp collisions at 8 TeV. Journal of High Energy Physics, 2016, 2016, 1.	1.6	6
337	Search for supersymmetry in events with at least three electrons or muons, jets, and missing transverse momentum in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	1.6	6
338	Measurements of triple-differential cross sections for inclusive isolated-photon+jet events in $\sqrt{s}=8$ TeV collisions at $\sqrt{s}=8$ TeV. European Physical Journal C, 2019, 79, 969.	1.4	6
339	Search for the associated production of the Higgs boson with a top-quark pair. , 2014, 2014, 1.		6
340	Inclusive and differential cross section measurements of single top quark production in association with a Z boson in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	1.6	6
341	Search for heavy resonances decaying to ZZ or ZW and axion-like particles mediating nonresonant ZZ or ZH production at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	1.6	6
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