Martin Erdmann

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.

777 papers	27,694 citations	78 h-index	130 g-index
787 ext. papers	31,396 ext. citations	4.6 avg, IF	4.26 L-index

#	Paper	IF	Citations
777	Testing effects of Lorentz invariance violation in the propagation of astroparticles with the Pierre Auger Observatory. *Journal of Cosmology and Astroparticle Physics*, **2022**, 2022, 023	6.4	1
776	Inference of cosmic-ray source properties by conditional invertible neural networks. *European Physical Journal C*, **2022**, 82, 1	4.2	0
775	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	5.4	0
774	Search for flavor-changing neutral current interactions of the top quark and the Higgs boson decaying to a bottom quark-antiquark pair at $$ sqrt{s} $$ = 13 TeV. *Journal of High Energy Physics*, **2022**, 2022, 1	5.4	1
773	Search for long-lived particles decaying to leptons with large impact parameter in proton-proton collisions at .. *European Physical Journal C*, **2022**, 82, 153	4.2	0
772	Study of dijet events with large rapidity separation in proton-proton collisions at $$ sqrt{s} $$ = 2.76 TeV. *Journal of High Energy Physics*, **2022**, 2022, 1	5.4	
771	Search for low-mass dilepton resonances in Higgs boson decays to four-lepton final states in proton-proton collisions at .. *European Physical Journal C*, **2022**, 82, 290	4.2	0
770	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	5.4	0
769	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	5.4	0
768	Search for a heavy resonance decaying into a top quark and a W boson in the lepton+jets final state at $$ sqrt{s} $$ = 13 TeV. *Journal of High Energy Physics*, **2022**, 2022, 1	5.4	0
767	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	5.4	0
766	Measurement and QCD analysis of double-differential inclusive jet cross sections in proton-proton collisions at $$ sqrt{s} $$ = 13 TeV. *Journal of High Energy Physics*, **2022**, 2022, 1	5.4	0
765	Search for electroweak production of charginos and neutralinos in proton-proton collisions at $$ sqrt{s} $$ = 13 TeV. *Journal of High Energy Physics*, **2022**, 2022, 1	5.4	0
764	Measurement of the inclusive $$ mathrm{t}overline{mathrm{t}} $$ production cross section in proton-proton collisions at $$ sqrt{s} $$ = 5.02 TeV. *Journal of High Energy Physics*, **2022**, 2022, 1	5.4	
763	Combined searches for the production of supersymmetric top quark partners in proton-proton collisions at. *European Physical Journal C*, **2021**, 81, 970	4.2	3
762	The energy spectrum of cosmic rays beyond the turn-down around (varvec{10^{17}}) eV as measured with the surface detector of the Pierre Auger Observatory. *European Physical Journal C*, **2021**, 81, 1	4.2	5
761	Search for dark photons in Higgs boson production via vector boson fusion in proton-proton collisions at (sqrt{s}) = 13 TeV. *Journal of High Energy Physics*, **2021**, 2021, 1	5.4	2

760	Measurements of production cross sections and constraints on anomalous triple gauge couplings at. *European Physical Journal C*, **2021**, 81, 200	4.2	5
759	Measurement of the inclusive and differential Higgs boson production cross sections in the leptonic WW decay mode at (sqrt{s}) = 13 TeV. *Journal of High Energy Physics*, **2021**, 2021, 1	5.4	3
758	Search for nonresonant Higgs boson pair production in final states with two bottom quarks and two photons in proton-proton collisions at (sqrt{s}) = 13 TeV. *Journal of High Energy Physics*, **2021**, 2021, 1	5.4	4
757	Search for new physics in top quark production with additional leptons in proton-proton collisions at (sqrt{s}) = 13 TeV using effective field theory. *Journal of High Energy Physics*, **2021**, 2021, 1	5.4	4
756	Measurement of differential cross sections for Z bosons produced in association with charm jets in pp collisions at (sqrt{s}) = 13 TeV. *Journal of High Energy Physics*, **2021**, 2021, 1	5.4	1
755	Calibration of the underground muon detector of the Pierre Auger Observatory. *Journal of Instrumentation*, **2021**, 16, P04003	1	1
754	Search for supersymmetry in final states with two oppositely charged same-flavor leptons and missing transverse momentum in proton-proton collisions at (sqrt{s}) = 13 TeV. *Journal of High Energy Physics*, **2021**, 2021, 1	5.4	6
753	Measurement of the Fluctuations in the Number of Muons in Extensive Air Showers with the Pierre Auger Observatory. *Physical Review Letters*, **2021**, 126, 152002	7.4	6
752	Development and validation of HERWIG□7 tunes from CMS underlying-event measurements. *European Physical Journal C*, **2021**, 81, 312	4.2	1
751	Angular analysis of the decay B+ -> K*(892)+⊞□n proton-proton collisions at (sqrt{mathrm{s}}) = 8 TeV. *Journal of High Energy Physics*, **2021**, 2021, 1	5.4	2
750	Measurement of the Higgs boson production rate in association with top quarks in final states with electrons, muons, and hadronically decaying tau leptons at. *European Physical Journal C*, **2021**, 81, 378	4.2	5
749	Measurement of b jet shapes in proton-proton collisions at (sqrt{s}) = 5.02 TeV. *Journal of High Energy Physics*, **2021**, 2021, 1	5.4	0
748	First measurement of large area jet transverse momentum spectra in heavy-ion collisions. *Journal of High Energy Physics*, **2021**, 2021, 1	5.4	2
747	Study of Drell-Yan dimuon production in proton-lead collisions at (sqrt{s_{mathrm{NN}}}) = 8.16 TeV. *Journal of High Energy Physics*, **2021**, 2021, 1	5.4	0
746	Measurements of the differential cross sections of the production of Z + jets and □+ jets and of Z boson emission collinear with a jet in pp collisions at (sqrt{s}) = 13 TeV. *Journal of High Energy Physics*, **2021**, 2021, 1	5.4	
745	In-medium modification of dijets in PbPb collisions at (sqrt{s_{mathrm{NN}}}) = 5.02 TeV. *Journal of High Energy Physics*, **2021**, 2021, 1	5.4	0
744	Measurement of the Z boson differential production cross section using its invisible decay mode (Z -> (nu overline{nu})) in proton-proton collisions at (sqrt{s}) = 13 TeV. *Journal of High Energy Physics*, **2021**, 2021, 1	5.4	
743	The FRAM robotic telescope for atmospheric monitoring at the Pierre Auger Observatory. *Journal of Instrumentation*, **2021**, 16, P06027	1	0

742	Measurements of production cross sections of the Higgs boson in the four-lepton final state in proton-proton collisions at. *European Physical Journal C*, **2021**, 81, 488	4.2	5
741	Deep-learning based reconstruction of the shower maximum X max using the water-Cherenkov detectors of the Pierre Auger Observatory. *Journal of Instrumentation*, **2021**, 16, P07019	1	3
740	Measurements of Higgs boson production cross sections and couplings in the diphoton decay channel at (sqrt{mathrm{s}}) = 13 TeV. *Journal of High Energy Physics*, **2021**, 2021, 1	5.4	3
739	Search for resonant and nonresonant new phenomena in high-mass dilepton final states at (sqrt{s}) = 13 TeV. *Journal of High Energy Physics*, **2021**, 2021, 1	5.4	5
738	Identification of patterns in cosmic-ray arrival directions using dynamic graph convolutional neural networks. *Astroparticle Physics*, **2021**, 126, 102527	2.4	5
737	Search for the lepton flavor violating decay > 3n proton-proton collisions at (sqrt{mathrm{s}}) = 13 TeV. *Journal of High Energy Physics*, **2021**, 2021, 1	5.4	1
736	Search for dark matter produced in association with a leptonically decaying boson in proton-proton collisions at. *European Physical Journal C*, **2021**, 81, 13	4.2	7
735	Evidence for Higgs boson decay to a pair of muons. *Journal of High Energy Physics*, **2021**, 2021, 1	5.4	14
734	Design, upgrade and characterization of the silicon photomultiplier front-end for the AMIGA detector at the Pierre Auger Observatory. *Journal of Instrumentation*, **2021**, 16, P01026-P01026	1	3
733	Search for top squark pair production using dilepton final states in collision data collected at. *European Physical Journal C*, **2021**, 81, 3	4.2	5
732	Extraction of the muon signals recorded with the surface detector of the Pierre Auger Observatory using recurrent neural networks. *Journal of Instrumentation*, **2021**, 16, P07016	1	1
731	MUSiC: a model-unspecific search for new physics in proton-proton collisions at. *European Physical Journal C*, **2021**, 81, 629	4.2	4
730	Design and implementation of the AMIGA embedded system for data acquisition. *Journal of Instrumentation*, **2021**, 16, T07008	1	1
729	Search for a heavy vector resonance decaying to a boson and a Higgs boson in proton-proton collisions at. *European Physical Journal C*, **2021**, 81, 688	4.2	0
728	Search for charged Higgs bosons produced in vector boson fusion processes and decaying into vector boson pairs in proton-proton collisions at. *European Physical Journal C*, **2021**, 81, 723	4.2	3
727	Towards extracting cosmic magnetic field structures from cosmic-ray arrival directions. *European Physical Journal C*, **2021**, 81, 1	4.2	1
726	Measurements of angular distance and momentum ratio distributions in three-jet and + two-jet final states in collisions. *European Physical Journal C*, **2021**, 81, 852	4.2	0
725	Precision luminosity measurement in proton-proton collisions at in 2015 and 2016 at CMS. *European Physical Journal C*, **2021**, 81, 800	4.2	7

724	Performance of the CMS Level-1 trigger in proton-proton collisions at = 13 TeV. *Journal of Instrumentation*, **2020**, 15, P10017-P10017	1	23
723	Search for decays of the 125 GeV Higgs boson into a Z boson and a br ? meson. *Journal of High Energy Physics*, **2020**, 2020, 1	5.4	2
722	Search for direct top squark pair production in events with one lepton, jets, and missing transverse momentum at 13 TeV with the CMS experiment. *Journal of High Energy Physics*, **2020**, 2020, 1	5.4	12
721	Search for high mass dijet resonances with a new background prediction method in proton-proton collisions at (sqrt{s}) = 13 TeV. *Journal of High Energy Physics*, **2020**, 2020, 1	5.4	20
720	Deep Learning based Algorithms in Astroparticle Physics. *Journal of Physics: Conference Series*, **2020** , 1525, 012112	0.3	2
719	Reconstruction of events recorded with the surface detector of the Pierre Auger Observatory. *Journal of Instrumentation*, **2020**, 15, P10021-P10021	1	5
718	Search for supersymmetry in proton-proton collisions at (sqrt{s}) = 13 TeV in events with high-momentum Z bosons and missing transverse momentum. *Journal of High Energy Physics*, **2020**, 2020, 1	5.4	1
717	Measurement of top quark pair production in association with a Z boson in proton-proton collisions at (sqrt{mathrm{s}}) = 13 TeV. *Journal of High Energy Physics*, **2020**, 2020, 1	5.4	8
716	Search for an excited lepton that decays via a contact interaction to a lepton and two jets in proton-proton collisions at (sqrt{s}) = 13 TeV. *Journal of High Energy Physics*, **2020**, 2020, 1	5.4	1
715	Search for new neutral Higgs bosons through the (mathrm{H}to mathrm{ZA}to {ell}^{+}{ell}^{-}mathrm{b}overline{mathrm{b}}) process in pp collisions at (sqrt{s}) = 13 TeV. *Journal of High Energy Physics*, **2020**, 2020, 1	5.4	10
714	Search for magnetically-induced signatures in the arrival directions of ultra-high-energy cosmic rays measured at the Pierre Auger Observatory. *Journal of Cosmology and Astroparticle Physics*, **2020**, 2020, 017-017	6.4	6
713	Search for direct pair production of supersymmetric partners to the lepton in proton-proton collisions at. *European Physical Journal C*, **2020**, 80, 189	4.2	3
712	A 3-Year Sample of Almost 1,600 Elves Recorded Above South America by the Pierre Auger Cosmic-Ray Observatory. *Earth and Space Science*, **2020**, 7, e2019EA000582	3.1	1
711	Mixed higher-order anisotropic flow and nonlinear response coefficients of charged particles in collisions at and 5.02. *European Physical Journal C*, **2020**, 80, 534	4.2	6
710	Measurement of the cross section for electroweak production of a Z boson, a photon and two jets in proton-proton collisions at (sqrt{mathrm{s}}) = 13 TeV and constraints on anomalous quartic couplings. *Journal of High Energy Physics*, **2020**, 2020, 1	5.4	7
709	Determination of the strong coupling constant S(mZ) from measurements of inclusive W and Z boson production cross sections in proton-proton collisions at (sqrt{mathrm{s}}) = 7 and 8 TeV. *Journal of High Energy Physics*, **2020**, 2020, 1	5.4	2
708	Measurement of the top quark forward-backward production asymmetry and the anomalous chromoelectric and chromomagnetic moments in pp collisions at (sqrt{s}) = 13 TeV. *Journal of High Energy Physics*, **2020**, 2020, 1	5.4	3
707	Measurement of electroweak production of a boson in association with two jets in proton-proton collisions at. *European Physical Journal C*, **2020**, 80, 43	4.2	6

706	Search for top squark pair production in a final state with two tau leptons in proton-proton collisions at (sqrt{s}) = 13 TeV. *Journal of High Energy Physics*, **2020**, 2020, 1	5.4	1
705	Evidence for (text {W}text {W}) production from double-parton interactions in proton□proton collisions at (sqrt{s} = 13 ,text {TeV}). *European Physical Journal C*, **2020**, 80, 1	4.2	4
704	Search for production of four top quarks in final states with same-sign or multiple leptons in proton-proton collisions at. *European Physical Journal C*, **2020**, 80, 75	4.2	24
703	Searches for physics beyond the standard model with the variable in hadronic final states with and without disappearing tracks in proton-proton collisions at. *European Physical Journal C*, **2020**, 80, 3	4.2	16
702	Extraction and validation of a new set of CMS pythia8 tunes from underlying-event measurements. *European Physical Journal C*, **2020**, 80, 4	4.2	61
701	Search for lepton flavour violating decays of a neutral heavy Higgs boson to □and e□n proton-proton collisions at (sqrt{s}) = 13 TeV. *Journal of High Energy Physics*, **2020**, 2020, 1	5.4	6
700	A search for the standard model Higgs boson decaying to charm quarks. *Journal of High Energy Physics*, **2020**, 2020, 1	5.4	9
699	Cosmic-Ray Anisotropies in Right Ascension Measured by the Pierre Auger Observatory. *Astrophysical Journal*, **2020**, 891, 142	4.7	17
698	Search for a heavy Higgs boson decaying to a pair of W bosons in proton-proton collisions at (sqrt{s}) = 13 TeV. *Journal of High Energy Physics*, **2020**, 2020, 1	5.4	11
697	Search for dark matter particles produced in association with a Higgs boson in proton-proton collisions at (sqrt{mathrm{s}}) = 13 TeV. *Journal of High Energy Physics*, **2020**, 2020, 1	5.4	7
696	A multi-dimensional search for new heavy resonances decaying to boosted , , or boson pairs in the dijet final state at 13□ *European Physical Journal C*, **2020**, 80, 237	4.2	10
695	Measurement of single-diffractive dijet production in proton-proton collisions at with the CMS and TOTEM experiments. *European Physical Journal C*, **2020**, 80, 1164	4.2	0
694	Measurement of differential cross sections and charge ratios for -channel single top quark production in proton-proton collisions at. *European Physical Journal C*, **2020**, 80, 370	4.2	4
693	Measurement of (hbox {t}{bar{hbox {t}}}) normalised multi-differential cross sections in ({text {p}}{text {p}}) collisions at (sqrt{s}=13,{text {TeV}}), and simultaneous determination of the strong coupling strength, top quark pole mass, and parton distribution functions. *European Physical Journal C*, **2020**, 80, 1	4.2	13
692	Knowledge sharing on deep learning in physics research using VISPA. *EPJ Web of Conferences*, **2020**, 245, 05040	0.3	
691	Physics inspired feature engineering with Lorentz Boost Networks. *Journal of Physics: Conference Series*, **2020**, 1525, 012107	0.3	
690	A Search for Ultra-high-energy Neutrinos from TXS 0506+056 Using the Pierre Auger Observatory. *Astrophysical Journal*, **2020**, 902, 105	4.7	2
689	Search for a charged Higgs boson decaying into top and bottom quarks in events with electrons or muons in proton-proton collisions at (sqrt{mathrm{s}}) = 13 TeV. *Journal of High Energy Physics*, **2020**, 2020, 1	5.4	16

688	Dependence of inclusive jet production on the anti-kT distance parameter in pp collisions at (sqrt{mathrm{s}}) = 13 TeV. *Journal of High Energy Physics*, **2020**, 2020, 1	5.4	3
687	Inclusive search for highly boosted Higgs bosons decaying to bottom quark-antiquark pairs in proton-proton collisions at (sqrt{s}) = 13 TeV. *Journal of High Energy Physics*, **2020**, 2020, 1	5.4	1
686	Measurement of the cosmic-ray energy spectrum above 2.5□1018 eV using the Pierre Auger Observatory. *Physical Review D*, **2020**, 102,	4.9	22
685	The production of isolated photons in PbPb and pp collisions at (sqrt{s_{mathrm{NN}}}) = 5.02 TeV. *Journal of High Energy Physics*, **2020**, 2020, 1	5.4	2
684	Investigation into the event-activity dependence of ?(nS) relative production in proton-proton collisions at (sqrt{s}) = 7 TeV. *Journal of High Energy Physics*, **2020**, 2020, 1	5.4	3
683	Bose-Einstein correlations of charged hadrons in proton-proton collisions at (sqrt{s}) = 13 TeV. *Journal of High Energy Physics*, **2020**, 2020, 1	5.4	2
682	A Deep Neural Network for Simultaneous Estimation of b Jet Energy and Resolution. *Computing and Software for Big Science*, **2020**, 4, 10	6	3
681	Search for electroweak production of a vector-like T quark using fully hadronic final states. *Journal of High Energy Physics*, **2020**, 2020, 1	5.4	8
680	Search for a heavy pseudoscalar Higgs boson decaying into a 125 GeV Higgs boson and a Z boson in final states with two tau and two light leptons at (sqrt{s}) = 13 TeV. *Journal of High Energy Physics*, **2020**, 2020, 1	5.4	5
679	Measurement of properties of ({mathrm{B}}_{mathrm{s}}^0)-> □□decays and search for B0-> □□ with the CMS experiment. *Journal of High Energy Physics*, **2020**, 2020, 1	5.4	10
678	Search for a light pseudoscalar Higgs boson in the boosted □final state in proton-proton collisions at (sqrt{s}) = 13 TeV. *Journal of High Energy Physics*, **2020**, 2020, 1	5.4	9
677	Reinforced sorting networks for particle physics analyses. *Journal of Physics: Conference Series*, **2020**, 1525, 012098	0.3	
676	Performance of the reconstruction and identification of high-momentum muons in proton-proton collisions at □ = 13 TeV. *Journal of Instrumentation*, **2020**, 15, P02027-P02027	1	11
675	Measurement of quark- and gluon-like jet fractions using jet charge in PbPb and pp collisions at 5.02 TeV. *Journal of High Energy Physics*, **2020**, 2020, 1	5.4	4
674	Measurement of the cross section for (mathrm{t}overline{mathrm{t}}) production with additional jets and b jets in pp collisions at (sqrt{s}) = 13 TeV. *Journal of High Energy Physics*, **2020**, 2020, 1	5.4	1
673	Search for charged Higgs bosons decaying into a top and a bottom quark in the all-jet final state of pp collisions at (sqrt{s}) = 13 TeV. *Journal of High Energy Physics*, **2020**, 2020, 1	5.4	13
672	Search for heavy Higgs bosons decaying to a top quark pair in proton-proton collisions at (sqrt{s}) = 13 TeV. *Journal of High Energy Physics*, **2020**, 2020, 1	5.4	18
671	Calibration of the CMS hadron calorimeters using proton-proton collision data at □ = 13 TeV. *Journal of Instrumentation*, **2020**, 15, P05002-P05002	1	

670	Features of the Energy Spectrum of Cosmic Rays above 2.5□10^{18} eV Using the Pierre Auger Observatory. *Physical Review Letters*, **2020**, 125, 121106	7.4	26
669	Study of central exclusive production in proton-proton collisions at and 13TeV. *European Physical Journal C*, **2020**, 80, 718	4.2	2
668	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. *European Physical Journal C*, **2020**, 80, 752	4.2	2
667	Studies on the response of a water-Cherenkov detector of the Pierre Auger Observatory to atmospheric muons using an RPC hodoscope. *Journal of Instrumentation*, **2020**, 15, P09002-P09002	1	2
666	Direct measurement of the muonic content of extensive air showers between (mathbf { 2times 10^{17}}) and (mathbf {2times 10^{18}}~)eV at the Pierre Auger Observatory. *European Physical Journal C*, **2020**, 80, 1	4.2	11
665	Search for physics beyond the standard model in multilepton final states in proton-proton collisions at (sqrt{s}) = 13 TeV. *Journal of High Energy Physics*, **2020**, 2020, 1	5.4	8
664	Measurement of the top quark pair production cross section in dilepton final states containing one □lepton in pp collisions at (sqrt{s}) = 13 TeV. *Journal of High Energy Physics*, **2020**, 2020, 1	5.4	0
663	Azimuthal separation in nearly back-to-back jet topologies in inclusive 2- and 3-jet events in collisions at. *European Physical Journal C*, **2019**, 79, 773	4.2	0
662	Search for charged Higgs bosons in the H□ -> □□decay channel in proton-proton collisions at (sqrt{s}=13) TeV. *Journal of High Energy Physics*, **2019**, 2019, 1	5.4	24
661	Search for resonant production of second-generation sleptons with same-sign dimuon events in proton-proton collisions at. *European Physical Journal C*, **2019**, 79, 305	4.2	2
660	Origins of Extragalactic Cosmic Ray Nuclei by Contracting Alignment Patterns induced in the Galactic Magnetic Field. *EPJ Web of Conferences*, **2019**, 210, 04004	0.3	
659	Search for supersymmetry with a compressed mass spectrum in the vector boson fusion topology with 1-lepton and 0-lepton final states in proton-proton collisions at (sqrt{s}) = 13 TeV. *Journal of High Energy Physics*, **2019**, 2019, 1	5.4	8
658	Origins of extragalactic cosmic ray nuclei by contracting alignment patterns induced in the galactic magnetic field. *Astroparticle Physics*, **2019**, 108, 74-83	2.4	3
657	Search for a low-mass □ resonance in association with a bottom quark in proton-proton collisions at (sqrt{s}) = 13 TeV. *Journal of High Energy Physics*, **2019**, 2019, 1	5.4	4
656	Search for the associated production of the Higgs boson and a vector boson in proton-proton collisions at (sqrt{s}) = 13 TeV via Higgs boson decays to □leptons. *Journal of High Energy Physics*, **2019**, 2019, 1	5.4	3
655	Search for the pair production of light top squarks in the e□□ final state in proton-proton collisions at (sqrt{s}=13) TeV. *Journal of High Energy Physics*, **2019**, 2019, 1	5.4	4
654	Combined measurements of Higgs boson couplings in proton-proton collisions at. *European Physical Journal C*, **2019**, 79, 421	4.2	153
653	Search for supersymmetry in events with a photon, jets, -jets, and missing transverse momentum in proton-proton collisions at 13. *European Physical Journal C*, **2019**, 79, 444	4.2	1

652	Measurements of the pp -> 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	5.4	10
651	Measurement of the 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	4.2	27
650	Measurement of the energy density as a function of pseudorapidity in proton–proton collisions at (sqrt{s} =13,text {TeV}). *European Physical Journal C*, **2019**, 79, 1	4.2	7
649	Search for nonresonant Higgs boson pair production in the (mathrm{b}overline{mathrm{b}}mathrm{b}overline{mathrm{b}}) final state at (sqrt{s}) = 13 TeV. *Journal of High Energy Physics*, **2019**, 2019, 1	5.4	4
648	Search for dark matter produced in association with a Higgs boson decaying to a pair of bottom quarks in proton-proton collisions at. *European Physical Journal C*, **2019**, 79, 280	4.2	12
647	Search for contact interactions and large extra dimensions in the dilepton mass spectra from proton-proton collisions at (sqrt{s}=13) TeV. *Journal of High Energy Physics*, **2019**, 2019, 1	5.4	8
646	Search for vector-like quarks in events with two oppositely charged leptons and jets in proton-proton collisions at. *European Physical Journal C*, **2019**, 79, 364	4.2	18
645	Precise Simulation of Electromagnetic Calorimeter Showers Using a Wasserstein Generative Adversarial Network. *Computing and Software for Big Science*, **2019**, 3, 1	6	46
644	Search for single production of vector-like quarks decaying to a top quark and a boson in proton-proton collisions at. *European Physical Journal C*, **2019**, 79, 90	4.2	6
643	Study of the underlying event in top quark pair production in collisions at 13. *European Physical Journal C*, **2019**, 79, 123	4.2	4
642	Search for rare decays of and Higgs bosons to and a photon in proton-proton collisions at = 13. *European Physical Journal C*, **2019**, 79, 94	4.2	7
641	Search for new physics in final states with a single photon and missing transverse momentum in proton-proton collisions at (sqrt{s}=13) TeV. *Journal of High Energy Physics*, **2019**, 2019, 1	5.4	9
640	Measurements of (mathrm{t}overline{mathrm{t}}) differential cross sections in proton-proton collisions at (sqrt{mathrm{s}}=13) TeV using events containing two leptons. *Journal of High Energy Physics*, **2019**, 2019, 1	5.4	15
639	Search for (mathrm{t}overline{mathrm{t}}mathrm{H}) production in the (mathrm{H}to mathrm{b}overline{mathrm{b}}) decay channel with leptonic (mathrm{t}overline{mathrm{t}}) decays in proton-proton collisions at (sqrt{s}=13) TeV. *Journal of High Energy Physics*, **2019**, 2019, 1	5.4	17
638	Search for supersymmetry in events with a photon, a lepton, and missing transverse momentum in proton-proton collisions at (sqrt{s} = 13) TeV. *Journal of High Energy Physics*, **2019**, 2019, 1	5.4	2
637	Measurement of inclusive and differential Higgs boson production cross sections in the diphoton decay channel in proton-proton collisions at (sqrt{s}=13) TeV. *Journal of High Energy Physics*, **2019**, 2019, 1	5.4	8
636	Search for resonant (mathrm{t}overline{mathrm{t}}) production in proton-proton collisions at (sqrt{s}=13) TeV. *Journal of High Energy Physics*, **2019**, 2019, 1	5.4	13
635	Measurement of the average shape of longitudinal profiles of cosmic-ray air showers at the Pierre Auger Observatory. *Journal of Cosmology and Astroparticle Physics*, **2019**, 2019, 018-018	6.4	5

634	Search for production of Higgs boson pairs in the four b quark final state using large-area jets in proton-proton collisions at (sqrt{s}=13) TeV. *Journal of High Energy Physics*, **2019**, 2019, 1	5.4	7
633	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	5.4	7
632	Search for heavy Majorana neutrinos in same-sign dilepton channels in proton-proton collisions at (sqrt{s}=13) TeV. *Journal of High Energy Physics*, **2019**, 2019, 1	5.4	14
631	Measurement of differential cross sections for inclusive isolated-photon and photon+jet production in proton-proton collisions at. *European Physical Journal C*, **2019**, 79, 20	4.2	4
630	Classification and recovery of radio signals from cosmic ray induced air showers with deep learning. *Journal of Instrumentation*, **2019**, 14, P04005-P04005	1	5
629	Search for heavy neutrinos and third-generation leptoquarks in hadronic states of two leptons and two jets in proton-proton collisions at (sqrt{s}=13) TeV. *Journal of High Energy Physics*, **2019**, 2019, 1	5.4	18
628	Search for a W? boson decaying to a vector-like quark and a top or bottom quark in the all-jets final state. *Journal of High Energy Physics*, **2019**, 2019, 1	5.4	4
627	Search for top quark partners with charge 5/3 in the same-sign dilepton and single-lepton final states in proton-proton collisions at (sqrt{s}=13) TeV. *Journal of High Energy Physics*, **2019**, 2019, 1	5.4	9
626	Inclusive search for supersymmetry in pp collisions at (sqrt{s}=13) TeV using razor variables and boosted object identification in zero and one lepton final states. *Journal of High Energy Physics*, **2019**, 2019, 1	5.4	2
625	Search for dark matter produced in association with a single top quark or a top quark pair in proton-proton collisions at (sqrt{s}=13) TeV. *Journal of High Energy Physics*, **2019**, 2019, 1	5.4	8
624	Search for excited leptons in final states in proton-proton collisions at (sqrt{mathrm{s}}=13) TeV. *Journal of High Energy Physics*, **2019**, 2019, 1	5.4	2
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