

# Marco Toliman Lucchini

## List of Publications by Year in descending order

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Version: 2024-02-01

229  
papers

11,356  
citations

28274

55  
h-index

38395

95  
g-index

237  
all docs

237  
docs citations

237  
times ranked

8567  
citing authors

| #  | ARTICLE                                                                                                                                                                                                                    | IF  | CITATIONS |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 1  | 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.      | 4.7 | 6         |
| 2  | 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.              | 4.7 | 5         |
| 3  | 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.                                            | 3.9 | 14        |
| 4  | 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.                                                                  | 4.7 | 1         |
| 5  | Search for low-mass dilepton resonances in Higgs boson decays to four-lepton final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2022, 82, 290.                                  | 3.9 | 18        |
| 6  | Characterization of mixed $B_i^4$ (Geometric Mean) Tj ETQq0.0.0.rgBT /Overlock 10 Tf 5                                                                                                                                     | 1.6 | 4         |
| 7  | 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.                 | 4.7 | 13        |
| 8  | Search for long-lived particles decaying into muon pairs in proton-proton collisions at $\sqrt{s} = 13$ TeV collected with a dedicated high-rate data stream. Journal of High Energy Physics, 2022, 2022, .                | 4.7 | 5         |
| 9  | 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.                                                                  | 4.7 | 12        |
| 10 | 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.                                                 | 4.7 | 2         |
| 11 | 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.                                 | 4.7 | 6         |
| 12 | 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.                                        | 4.7 | 5         |
| 13 | 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.                                                          | 4.7 | 5         |
| 14 | Measurement of the inclusive $\overline{\text{t}}\text{t}$ production cross section in proton-proton collisions at $\sqrt{s} = 5.02$ TeV. Journal of High Energy Physics, 2022, 2022, 1.                                   | 4.7 | 2         |
| 15 | Search for heavy resonances decaying to a pair of Lorentz-boosted Higgs bosons in final states with leptons and a bottom quark pair at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, .                  | 4.7 | 2         |
| 16 | Search for higgsinos decaying to two Higgs bosons and missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, .                                        | 4.7 | 4         |
| 17 | Observation of $B^0 \rightarrow \psi(2S) K^0_{\text{S}} \text{uppi}^+ \text{uppi}^-$ and $B^0_{\text{S}} \rightarrow \psi(2S) K^0_{\text{S}} \text{uppi}^+ \text{uppi}^-$ decays. European Physical Journal C, 2022, 82, . | 3.9 | 1         |
| 18 | Search for dark matter produced in association with a leptonically decaying $\text{Z}$ boson in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 13.                                | 3.9 | 33        |

| #  | ARTICLE                                                                                                                                                                                                                                | IF  | CITATIONS |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 19 | Search for top squark pair production using dilepton final states in $\text{pp}$ collision data collected at $\sqrt{s}=13\text{ TeV}$ . European Physical Journal C, 2021, 81, 3.                                                      | 3.9 | 33        |
| 20 | Measurements of $\text{pp} \rightarrow \text{ZZ}$ production cross sections and constraints on anomalous triple gauge couplings at $\sqrt{s} = 13\text{ TeV}$ . European Physical Journal C, 2021, 81, 200.                            | 3.9 | 24        |
| 21 | Development and validation of HERWIG <sup>7</sup> tunes from CMS underlying-event measurements. European Physical Journal C, 2021, 81, 312.                                                                                            | 3.9 | 12        |
| 22 | Measurement of the Higgs boson production rate in association with top quarks in final states with electrons, muons, and hadronically decaying tau leptons at $\sqrt{s} = 13\text{ TeV}$ . European Physical Journal C, 2021, 81, 378. | 3.9 | 40        |
| 23 | Measurements of production cross sections of the Higgs boson in the four-lepton final state in proton-proton collisions at $\sqrt{s} = 13\text{ TeV}$ . European Physical Journal C, 2021, 81, 488.                                    | 3.9 | 35        |
| 24 | Measurements of Higgs boson production cross sections and couplings in the diphoton decay channel at $\sqrt{s} = 13\text{ TeV}$ . Journal of High Energy Physics, 2021, 2021, 1.                                                       | 4.7 | 27        |
| 25 | MUSIC: a model-unspecific search for new physics in proton-proton collisions at $\sqrt{s} = 13\text{ TeV}$ . European Physical Journal C, 2021, 81, 629.                                                                               | 3.9 | 18        |
| 26 | Search for a heavy vector resonance decaying to a $\text{ZZ}$ boson and a Higgs boson in proton-proton collisions at $\sqrt{s} = 13\text{ TeV}$ . European Physical Journal C, 2021, 81, 688.                                          | 3.9 | 9         |
| 27 | Search for charged Higgs bosons produced in vector boson fusion processes and decaying into vector boson pairs in proton-proton collisions at $\sqrt{s} = 13\text{ TeV}$ . European Physical Journal C, 2021, 81, 723.                 | 3.9 | 19        |
| 28 | Measurements of angular distance and momentum ratio distributions in three-jet and $\text{ZZ}$ + two-jet final states in $\text{pp}$ collisions. European Physical Journal C, 2021, 81, 852.                                           | 3.9 | 2         |
| 29 | 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.                                                                        | 3.9 | 123       |
| 30 | Combined searches for the production of supersymmetric top quark partners in proton-proton collisions at $\sqrt{s} = 13\text{ TeV}$ . European Physical Journal C, 2021, 81, 970.                                                      | 3.9 | 18        |
| 31 | A Deep Neural Network for Simultaneous Estimation of b Jet Energy and Resolution. Computing and Software for Big Science, 2020, 4, 10.                                                                                                 | 2.9 | 21        |
| 32 | Performance of the reconstruction and identification of high-momentum muons in proton-proton collisions at $\sqrt{s} = 13\text{ TeV}$ . Journal of Instrumentation, 2020, 15, P02027-P02027.                                           | 1.2 | 27        |
| 33 | Calibration of the CMS hadron calorimeters using proton-proton collision data at $\sqrt{s} = 13\text{ TeV}$ . Journal of Instrumentation, 2020, 15, P05002-P05002.                                                                     | 1.2 | 3         |
| 34 | Performance of the CMS Level-1 trigger in proton-proton collisions at $\sqrt{s} = 13\text{ TeV}$ . Journal of Instrumentation, 2020, 15, P10017-P10017.                                                                                | 1.2 | 84        |
| 35 | 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.                                        | 4.7 | 21        |
| 36 | Measurement of top quark pair production in association with a Z boson in proton-proton collisions at $\sqrt{s} = 13\text{ TeV}$ . Journal of High Energy Physics, 2020, 2020, 1.                                                      | 4.7 | 20        |

| #  | ARTICLE                                                                                                                                                                                                                                               | IF  | CITATIONS |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 37 | Search for direct pair production of supersymmetric partners to the $\tau^+$ lepton in proton-proton collisions at $\sqrt{s}=13$ , ext {TeV} \$. European Physical Journal C, 2020, 80, 189.                                                          | 3.9 | 22        |
| 38 | Mixed higher-order anisotropic flow and nonlinear response coefficients of charged particles in $\text{PbPb}$ collisions at $\sqrt{s_{\text{NN}}} = 2.76$ and $5.02$ , ext {TeV} \$. European Physical Journal C, 2020, 80, 534.                      | 3.9 | 14        |
| 39 | Measurement of electroweak production of a $W$ boson in association with two jets in proton-proton collisions at $\sqrt{s}=13$ , ext {TeV} \$. European Physical Journal C, 2020, 80, 43.                                                             | 3.9 | 11        |
| 40 | Evidence for $W$ production from double-parton interactions in proton-proton collisions at $\sqrt{s} = 13$ , ext {TeV} \$. European Physical Journal C, 2020, 80, 1.                                                                                  | 3.9 | 10        |
| 41 | Search for production of four top quarks in final states with same-sign or multiple leptons in proton-proton collisions at $\sqrt{s}=13$ ext {TeV} \$. European Physical Journal C, 2020, 80, 75.                                                     | 3.9 | 78        |
| 42 | Searches for physics beyond the standard model with the $M_{\text{T2}}$ variable in hadronic final states with and without disappearing tracks in proton-proton collisions at $\sqrt{s}=13$ , ext {TeV} \$. European Physical Journal C, 2020, 80, 3. | 3.9 | 70        |
| 43 | Extraction and validation of a new set of CMS pythia8 tunes from underlying-event measurements. European Physical Journal C, 2020, 80, 4.                                                                                                             | 3.9 | 198       |
| 44 | 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.                                                                        | 4.7 | 14        |
| 45 | A multi-dimensional search for new heavy resonances decaying to boosted $W^+W^-$ , $W^+Z$ , or $Z^+Z^-$ boson pairs in the dijet final state at $\sqrt{s}=13$ ext {TeV} \$. European Physical Journal C, 2020, 80, 237.                               | 3.9 | 31        |
| 46 | New perspectives on segmented crystal calorimeters for future colliders. Journal of Instrumentation, 2020, 15, P11005-P11005.                                                                                                                         | 1.2 | 17        |
| 47 | Measurement of single-diffractive dijet production in proton-proton collisions at $\sqrt{s} = 8$ , ext {TeV} \$ with the CMS and TOTEM experiments. European Physical Journal C, 2020, 80, 1164.                                                      | 3.9 | 5         |
| 48 | Measurement of differential cross sections and charge ratios for t-channel single top quark production in proton-proton collisions at $\sqrt{s}=13$ ext {TeV} \$. European Physical Journal C, 2020, 80, 370.                                         | 3.9 | 22        |
| 49 | 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.                                                           | 4.7 | 17        |
| 50 | Measurement of exclusive $\text{Upsilon}$ photoproduction from protons in $\text{pPb}$ collisions at $\sqrt{s_{\text{NN}}} = 5.02$ , ext {TeV} \$. European Physical Journal C, 2019, 79, 277.                                                        | 3.9 | 35        |
| 51 | Measurement of the top quark mass in the all-jets final state at $\sqrt{s}=13$ , ext {TeV} \$ $s = 13$ TeV and combination with the lepton+jets channel. European Physical Journal C, 2019, 79, 313.                                                  | 3.9 | 40        |
| 52 | Search for resonant production of second-generation sleptons with same-sign dimuon events in proton-proton collisions at $\sqrt{s} = 13$ , ext {TeV} \$ $s = 13$ TeV. European Physical Journal C, 2019, 79, 305.                                     | 3.9 | 4         |
| 53 | FCC Physics Opportunities. European Physical Journal C, 2019, 79, 1.                                                                                                                                                                                  | 3.9 | 346       |
| 54 | Search for the pair production of light top squarks in the $e^+e^-$ final state in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.                                                                      | 4.7 | 5         |

| #  | ARTICLE                                                                                                                                                                                                                                               | IF  | CITATIONS |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 55 | Combined measurements of Higgs boson couplings in proton-proton collisions at $\sqrt{s}=13$ , $\sqrt{s}=13$ TeV. European Physical Journal C, 2019, 79, 421.                                                                                          | 3.9 | 355       |
| 56 | Measurements of the $pp \rightarrow WZ$ 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.                       | 4.7 | 14        |
| 57 | Measurement of the $t\bar{t} \rightarrow t\bar{t} \gamma$ production cross section, the top quark mass, and the strong coupling constant using dilepton events in $pp$ collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 368. | 3.9 | 68        |
| 58 | 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.                                                 | 3.9 | 29        |
| 59 | Search for vector-like quarks in events with two oppositely charged leptons and jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 364.                                                                  | 3.9 | 48        |
| 60 | Search for single production of vector-like quarks decaying to a top quark and a $W$ boson in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 90.                                                             | 3.9 | 34        |
| 61 | Search for rare decays of $Z$ and Higgs bosons to $J/\psi$ and a photon in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 94.                                                                                | 3.9 | 20        |
| 62 | Search for $t\bar{t} \rightarrow t\bar{t} H$ 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.              | 4.7 | 28        |
| 63 | 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.                                                         | 4.7 | 12        |
| 64 | 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.                                                     | 3.9 | 18        |
| 65 | Measurements of triple-differential cross sections for inclusive isolated-photon+jet events in $pp$ collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2019, 79, 969.                                                                     | 3.9 | 6         |
| 66 | Measurement of the differential Drell-Yan cross section in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.                                                                                            | 4.7 | 18        |
| 67 | 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.                                    | 3.9 | 12        |
| 68 | 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.                                                                               | 3.9 | 16        |
| 69 | 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.                                                                                   | 4.7 | 28        |
| 70 | 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.                                                                                    | 3.9 | 10        |
| 71 | Search for new physics in events with a leptonically decaying $Z$ boson and a large transverse momentum imbalance in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2018, 78, 291.                                     | 3.9 | 27        |
| 72 | Measurements of the $pp \rightarrow ZZ$ production cross section and the $Z \rightarrow 4\ell$ branching fraction, and constraints on anomalous triple gauge couplings at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2018, 78, 165.            | 3.9 | 52        |

| #  | ARTICLE                                                                                                                                                                                                                                                  | IF  | CITATIONS |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 73 | Measurement of associated Z + charm production in proton-proton collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2018, 78, 287.                                                                                                            | 3.9 | 16        |
| 74 | Search for new phenomena in final states with two opposite-charge, same-flavor leptons, jets, and missing transverse momentum in pp collisions at $s = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.                                           | 4.7 | 5         |
| 75 | 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.                                                            | 4.7 | 63        |
| 76 | Measurement of non-equilibrium carriers dynamics in Ce-doped YAG, LuAG and GAGG crystals with and without Mg-codoping. Journal of Luminescence, 2018, 194, 1-7.                                                                                          | 3.1 | 25        |
| 77 | Search for $\overline{t}t\text{H}$ production in the all-jet final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.                                                                              | 4.7 | 20        |
| 78 | 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.                                           | 4.7 | 11        |
| 79 | 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.                                                                                     | 4.7 | 12        |
| 80 | Measurement of the top quark mass with lepton+jets final states using $p\bar{p}$ collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2018, 78, 891.                                                                                          | 3.9 | 34        |
| 81 | Measurements of Higgs boson properties in the diphoton decay channel in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.                                                                                  | 4.7 | 57        |
| 82 | Search for $Z\bar{\nu}\nu$ resonances using leptonic and hadronic final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.                                                                        | 4.7 | 17        |
| 83 | Search for black holes and sphalerons in high-multiplicity final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.                                                                               | 4.7 | 14        |
| 84 | Search for third-generation scalar leptoquarks decaying to a top quark and a $\tau$ , lepton at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2018, 78, 707.                                                                                         | 3.9 | 46        |
| 85 | 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.                                                             | 3.9 | 39        |
| 86 | 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.                                                                                      | 4.7 | 8         |
| 87 | Measurement of charged particle spectra in minimum-bias events from proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2018, 78, 697.                                                                                         | 3.9 | 17        |
| 88 | 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.                                                                                     | 4.7 | 25        |
| 89 | 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.                                                                          | 4.7 | 13        |
| 90 | Measurement of the $\sigma(\text{Z}/\gamma^* \rightarrow \text{e}^+\text{e}^-)$ cross section in pp collisions at $\sqrt{s} = 13$ TeV and validation of $\sigma(\text{Z}/\gamma^* \rightarrow \mu^+\mu^-)$ . European Physical Journal C, 2018, 78, 708. | 3.9 | 10        |

| #   | ARTICLE                                                                                                                                                                                                                                 | IF  | CITATIONS |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 91  | Search for dark matter produced in association with a Higgs boson decaying to $\hat{3}^3$ or $\bar{1}, +\bar{1}, \hat{2}$ at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.                                          | 4.7 | 12        |
| 92  | Search for a heavy resonance decaying into a Z boson and a vector boson in the $u\bar{u}q\bar{q}$ final state. Journal of High Energy Physics, 2018, 2018, 1.                                                                           | 4.7 | 10        |
| 93  | Measurement of the weak mixing angle using the forward-backward asymmetry of Drell-Yan events in $pp$ collisions at $\sqrt{s}=8$ TeV. European Physical Journal C, 2018, 78, 701.                                                       | 3.9 | 58        |
| 94  | Evidence for associated production of a Higgs boson with a top quark pair in final states with electrons, muons, and hadronically decaying $\bar{1}$ , leptons at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.     | 4.7 | 38        |
| 95  | Electroweak production of two jets in association with a Z boson in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2018, 78, 1.                                                                            | 3.9 | 17        |
| 96  | 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.                                                  | 4.7 | 20        |
| 97  | Measurements of differential cross sections of top quark pair production as a function of kinematic event variables in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.                    | 4.7 | 13        |
| 98  | Measurement of the inelastic proton-proton cross section at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.                                                                                                           | 4.7 | 62        |
| 99  | Search for high-mass resonances in dilepton final states in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.                                                                               | 4.7 | 86        |
| 100 | Search for standard model production of four top quarks with same-sign and multilepton final states in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2018, 78, 140.                                       | 3.9 | 44        |
| 101 | Measurements of the $pp \rightarrow ZZ$ production cross section and the $Z \rightarrow 4\ell$ branching fraction, and constraints on anomalous triple gauge couplings at $\sqrt{s}=13$ TeV. , 2018, 78, 1.                             |     | 3         |
| 102 | Measurements of the $t\bar{t}$ production cross section in lepton+jets final states in pp collisions at $\sqrt{s}=8$ TeV and ratio of 8 to 7 TeV cross sections. European Physical Journal C, 2017, 77, 15.                             | 3.9 | 34        |
| 103 | Timing capabilities of garnet crystals for detection of high energy charged particles. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2017, 852, 1-9. | 1.6 | 32        |
| 104 | Measurement of the $t\bar{t}$ production cross section using events in the $e\mu e\bar{\nu}_4$ final state in pp collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2017, 77, 172.                                           | 3.9 | 40        |
| 105 | Measurement and QCD analysis of double-differential inclusive jet cross sections in pp collisions at $\sqrt{s}=8$ TeV and cross section ratios to 2.76 and 7 TeV. Journal of High Energy Physics, 2017, 2017, 1.                        | 4.7 | 54        |
| 106 | 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.                                                                | 3.9 | 16        |
| 107 | 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.                              | 3.9 | 37        |
| 108 | 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.                     | 3.9 | 29        |

| #   | ARTICLE                                                                                                                                                                                                                     | IF  | CITATIONS |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 109 | Measurement of double-differential cross sections for top quark pair production in pp collisions at $\sqrt{s} = 8$ TeV and impact on parton distribution functions. European Physical Journal C, 2017, 77, 459.             | 3.9 | 52        |
| 110 | Measurement of the jet mass in highly boosted $\overline{\text{t}}\text{t}$ events from pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2017, 77, 467.                                                    | 3.9 | 23        |
| 111 | Charged-particle nuclear modification factors in PbPb and pPb collisions at $\sqrt{s_{\text{NN}}} = 5.02$ TeV. Journal of High Energy Physics, 2017, 2017, 1.                                                               | 4.7 | 103       |
| 112 | Suppression and azimuthal anisotropy of prompt and nonprompt $J/\psi$ production in PbPb collisions at $\sqrt{s_{\text{NN}}} = 2.76$ TeV. European Physical Journal C, 2017, 77, 252.                                       | 3.9 | 82        |
| 113 | Searches for pair production of third-generation squarks in $\sqrt{s} = 13$ TeV pp collisions. European Physical Journal C, 2017, 77, 327.                                                                                  | 3.9 | 32        |
| 114 | Measurement of the top quark mass using single top quark events in proton-proton collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2017, 77, 354.                                                              | 3.9 | 23        |
| 115 | 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.                                                | 3.9 | 38        |
| 116 | Search for direct production of supersymmetric partners of the top quark in the all-jets final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.                     | 4.7 | 22        |
| 117 | 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.                                                                    | 4.7 | 31        |
| 118 | Measurement of the $\overline{\text{t}}\text{t}$ 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.         | 4.7 | 15        |
| 119 | Search for physics beyond the standard model in events with two leptons of same sign, missing transverse momentum, and jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2017, 77, 578. | 3.9 | 57        |
| 120 | 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.                                                              | 4.7 | 29        |
| 121 | Search for new phenomena with multiple charged leptons in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2017, 77, 1.                                                                        | 3.9 | 2         |
| 122 | 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.                                                   | 3.9 | 38        |
| 123 | Measurement of the triple-differential dijet cross section in proton-proton collisions at $\sqrt{s} = 8$ TeV and constraints on parton distribution functions. European Physical Journal C, 2017, 77, 746.                  | 3.9 | 23        |
| 124 | Measurements of properties of the Higgs boson decaying into the four-lepton final state in pp collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.                                             | 4.7 | 101       |
| 125 | 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.                                                                       | 3.9 | 30        |
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