

List of publications:

A Peer-reviewed scientific articles

with the TOTEM collaboration:

1. G. Antchev et al. with K. Österberg,
Proton-proton elastic scattering at the LHC energy of $\sqrt{s} = 7$ TeV
Europhys. Lett. **95** (2011) 41001.
2. G. Antchev et al. with K. Österberg,
First measurement of the total proton-proton scattering at the LHC energy of $\sqrt{s} = 7$ TeV
Europhys. Lett. **96** (2011) 21002.
3. G. Antchev et al. with K. Österberg,
Measurement of the forward charged particle pseudorapidity density in pp collisions at $\sqrt{s} = 7$ TeV with the TOTEM experiment
Europhys. Lett. **98** (2012) 31002.
4. G. Antchev et al. with K. Österberg,
Measurement of proton-proton elastic scattering and total cross-section at $\sqrt{s} = 7$ TeV
Europhys. Lett. **101** (2013) 21002.
5. G. Antchev et al. with K. Österberg,
Measurement of proton-proton inelastic scattering cross-section at $\sqrt{s} = 7$ TeV
Europhys. Lett. **101** (2013) 21003.
6. G. Antchev et al. with K. Österberg,
Luminosity-independent measurements of total, elastic and inelastic cross-sections at $\sqrt{s} = 7$ TeV
Europhys. Lett. **101** (2013) 21004.
7. G. Antchev et al. with K. Österberg,
Luminosity-Independent Measurement of the Proton-Proton Total Cross Section at $\sqrt{s} = 8$ TeV
Phys. Rev. Lett. **111** (2013) 012001.
8. G. Antchev et al. with K. Österberg,
Double Diffractive Cross-Section Measurement in the Forward Region at the LHC
Phys. Rev. Lett. **111** (2013) 262001.
9. S. Chatrchyan et al. with K. Österberg (CMS and TOTEM collaborations),
Measurement of pseudorapidity distributions of charged particles in proton-proton collisions at $\sqrt{s} = 8$ TeV by the CMS and TOTEM experiments
Eur. Phys. J. C **74** (2014) 3053.
10. G. Antchev et al. with K. Österberg,
Measurement of the forward charged particle pseudorapidity density in pp collisions at $\sqrt{s} = 8$ TeV using a displaced interaction point
Eur. Phys. J. C **75** (2015) 126.
11. G. Antchev et al. with K. Österberg,
Evidence for non-exponential elastic proton-proton differential cross-section at low $|t|$ and $\sqrt{s} = 8$ TeV by TOTEM
Nucl. Phys. B **899** (2015) 527.

12. G. Antchev et al. with K. Österberg,
Measurement of elastic pp scattering at $\sqrt{s} = 8$ TeV in the Coulomb-nuclear interference region: determination of the ρ parameter and the total cross-section
Eur. Phys. J. C **76** (2016) 661.
13. A.M. Sirunyan et al. with K. Österberg (CMS and TOTEM collaborations),
Observation of proton-tagged, central (semi)exclusive production of high-mass lepton pairs in pp collisions at 13 TeV with the CMS-TOTEM precision proton spectrometer
JHEP **07** (2018) 153.
14. G. Antchev et al. with K. Österberg,
First measurement of the elastic, inelastic and total cross-section at $\sqrt{s} = 13$ TeV by TOTEM and overview of cross-section data at LHC energies
Eur. Phys. J. C **79** (2019) 103.
15. G. Antchev et al. with K. Österberg,
First determination of the ρ parameter at $\sqrt{s} = 13$ TeV: probing the existence of a colourless C-odd three-gluon compound state
Eur. Phys. J. C **79** (2019) 785.
16. G. Antchev et al. with K. Österberg,
Elastic differential cross-section measurement at $\sqrt{s} = 13$ TeV by TOTEM
Eur. Phys. J. C **79** (2019) 861.
17. G. Antchev et al. with K. Österberg,
Elastic differential cross-section $d\sigma/dt$ at $\sqrt{s} = 2.76$ TeV and implications on the existence of a colourless C-odd three-gluon compound state
Eur. Phys. J. C **80** (2020) 91.
18. A.M. Sirunyan et al. with K. Österberg (CMS and TOTEM collaborations),
Measurement of single-diffractive dijet production in proton-proton collisions at $\sqrt{s} = 8$ TeV with the CMS and TOTEM experiments
Eur. Phys. J. C **80** (2020) 1164.
19. A.M. Sirunyan et al. with K. Österberg (CMS and TOTEM collaborations),
Hard color-singlet exchange in dijet events with proton-proton collisions at $\sqrt{s} = 13$ TeV
Phys. Rev. D **104** (2021) 032009.
20. V.M. Abazov et al. with K. Österberg (D0 and TOTEM collaborations),
Odderon Exchange from Elastic Scattering Differences between pp and $p\bar{p}$ Data at 1.96 TeV and from pp Forward Scattering Measurements
Phys. Rev. Lett. **127** (2021) 062003.
21. A. Tumasyan et al. with K. Österberg (CMS and TOTEM collaborations),
First Search for Exclusive Diphoton Production at High Mass with Tagged Protons in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV
Phys. Rev. Lett. **127** (2022) 062003.
22. G. Antchev et al. with K. Österberg,
Characterisation of the dip-bump structure observed in proton-proton elastic scattering at $\sqrt{s} = 8$ TeV
Eur. Phys. J. C **82** (2022) 263.
23. A. Tumasyan et al. with K. Österberg (CMS and TOTEM collaborations),
Proton reconstruction with the CMS-TOTEM Precision Proton Spectrometer
JINST **18** (2023) P09009.

24. A. Tumasyan et al. with K. Österberg (CMS and TOTEM collaborations),
Search for high-mass exclusive $\gamma\gamma \rightarrow WW$ and $\gamma\gamma \rightarrow ZZ$ production in proton-proton collisions at $\sqrt{s} = 13$ TeV
JHEP 07 (2023) 229.
25. A. Tumasyan et al. with K. Österberg (CMS and TOTEM collaborations),
A search for new physics in central exclusive production using the missing mass technique with the CMS detector and the CMS-TOTEM precision proton spectrometer
Eur. Phys. J. C 83 (2023) 827.
26. A. Tumasyan et al. with K. Österberg (CMS and TOTEM collaborations),
Search for central exclusive production of top quark pairs in proton-proton collisions at $\sqrt{s} = 13$ TeV with tagged protons
JHEP 06 (2024) 187.
27. A. Hayrapetyan et al. with K. Österberg (CMS and TOTEM collaborations),
Nonresonant central exclusive production of charged-hadron pairs in proton-proton collisions at $\sqrt{s} = 13$ TeV
Phys. Rev. D 109 (2024) 112013.
28. A. Tumasyan et al. with K. Österberg (CMS and TOTEM collaborations),
Search for high-mass exclusive diphoton production with tagged protons in proton-proton collisions at $\sqrt{s} = 13$ TeV
Phys. Rev. D 110 (2024) 012010.
29. A. Hayrapetyan et al. with K. Österberg (CMS and TOTEM collaborations),
Proton reconstruction with the TOTEM Roman pot detectors for high- β^* LHC data
JINST 20 (2025) P04012.

with the CMS collaboration:

30. A.M. Sirunyan et al. with K. Osterberg,
Search for Higgs and Z boson decays to J/Ψ or Υ pairs in the four-muon final state in proton-proton collisions at $\sqrt{s} = 13$ TeV
Phys. Lett. B 797 (2019) 134811.
31. A.M. Sirunyan et al. with K. Osterberg,
Search for long-lived particles using nonprompt jets and missing transverse momentum with proton-proton collisions at $\sqrt{s} = 13$ TeV
Phys. Lett. B 797 (2019) 134876.
32. A.M. Sirunyan et al. with K. Osterberg,
Searches resonances decaying to a pair of Higgs bosons in the $b\bar{b}q\bar{q}'l\nu$ final state in proton-proton collisions at $\sqrt{s} = 13$ TeV
JHEP 10 (2019) 125.
33. A.M. Sirunyan et al. with K. Osterberg,
Search for a Light Charged Higgs Boson Decaying to a W boson and a CP -Odd Higgs Boson in Final States with $e\mu\mu$ or $\mu\mu\mu$ in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV
Phys. Rev. Lett. 123 (2019) 131802.
34. A.M. Sirunyan et al. with K. Osterberg,
Measurement of the top quark Yukawa coupling from $t\bar{t}$ kinematic distributions in the lepton+jets final state in proton-proton collisions at $\sqrt{s} = 13$ TeV
Phys. Rev. D 100 (2019) 072007.

35. A.M. Sirunyan et al. with K. Osterberg,
Search for MSSM Higgs bosons decaying to $\mu^+\mu^-$ in proton-proton collisions at $\sqrt{s} = 13$ TeV
Phys. Lett. B **798** (2019) **134992**.
36. A.M. Sirunyan et al. with K. Osterberg,
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
Eur. Phys. J. C **79** (2019) **893**.
37. A.M. Sirunyan et al. with K. Osterberg,
Search for dark photons in decays of Higgs bosons produced in association with Z bosons in proton-proton collisions at $\sqrt{s} = 13$ TeV
JHEP **10** (2019) **139**.
38. A.M. Sirunyan et al. with K. Osterberg,
Searches for the production of $W^\pm W^\pm W^\pm$ events at $\sqrt{s} = 13$ TeV
Phys. Rev. D **100** (2019) **012004**.
39. A.M. Sirunyan et al. with K. Osterberg,
Search for supersymmetry in proton-proton collisions at 13 TeV in final states with jets and missing transverse momentum
JHEP **10** (2019) **244**.
40. A.M. Sirunyan et al. with K. Osterberg,
Combination of CMS searches for heavy resonances decaying to pairs of bosons or leptons
Phys. Lett. B **798** (2019) **134952**.
41. A.M. Sirunyan et al. with K. Osterberg,
Search for pair production of vector-like quarks in the fully hadronic final state
Phys. Rev. D **100** (2019) **072001**.
42. A.M. Sirunyan et al. with K. Osterberg,
Search for supersymmetry using Higgs boson to diphoton decays at $\sqrt{s} = 13$ TeV
JHEP **11** (2019) **109**.
43. A.M. Sirunyan et al. with K. Osterberg,
Study of the $B^+ \rightarrow J/\Psi \bar{\Lambda} p$ decay in proton-proton collisions at $\sqrt{s} = 8$ TeV
JHEP **12** (2019) **100**.
44. A.M. Sirunyan et al. with K. Osterberg,
Search for Physics beyond the Standard Model in Events with Overlapping Photons and Jets
Phys. Rev. Lett. **123** (2019) **131802**.
45. A.M. Sirunyan et al. with K. Osterberg,
Search for long-lived particles using delayed photons in proton-proton collisions at $\sqrt{s} = 13$ TeV
Phys. Rev. D **100** (2019) **112003**.
46. A.M. Sirunyan et al. with K. Osterberg,
Search for the production of four top quarks in the single-lepton and opposite-sign dilepton final states in proton-proton collisions at $\sqrt{s} = 13$ TeV
JHEP **11** (2019) **082**.
47. A.M. Sirunyan et al. with K. Osterberg,
Production of Λ_c^+ baryons in proton-proton and lead-lead collisions at $\sqrt{s_{NN}} = 5.02$ TeV
Phys. Lett. B **803** (2020) **135328**.

48. A.M. Sirunyan et al. with K. Osterberg,
Search for Low-Mass Quark-Antiquark Resonances Produced in Association with a Photon
at $\sqrt{s} = 13$ TeV
Phys. Rev. Lett. **123** (2019) 231803.
49. A.M. Sirunyan et al. with K. Osterberg,
Search for low mass vector resonances decaying into quark-antiquark pairs in proton-proton
collisions at $\sqrt{s} = 13$ TeV
Phys. Rev. D **100** (2019) 112007.
50. A.M. Sirunyan et al. with K. Osterberg,
Measurements of differential Z boson production cross sections in proton-proton collisions
at $\sqrt{s} = 13$ TeV
JHEP **12** (2019) 061.
51. A.M. Sirunyan et al. with K. Osterberg,
Search for a charged Higgs boson decaying into top and bottom quarks in events with
electrons or muons in proton-proton collisions at $\sqrt{s} = 13$ TeV
JHEP **01** (2020) 096.
52. A.M. Sirunyan et al. with K. Osterberg,
Observation of the $\Lambda_b^0 \rightarrow J/\Psi \Lambda \phi$ decay in proton-proton collisions at $\sqrt{s} = 13$ TeV
Phys. Lett. B **802** (2020) 135203.
53. A.M. Sirunyan et al. with K. Osterberg,
Search for anomalous triple gauge couplings in WW and WZ production in lepton + jet
events in proton-proton collisions at $\sqrt{s} = 13$ TeV
JHEP **12** (2019) 062.
54. A.M. Sirunyan et al. with K. Osterberg,
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
Eur. Phys. J. C **80** (2020) 75.
55. A.M. Sirunyan et al. with K. Osterberg,
Combined search for supersymmetry with photons in proton-proton collisions at $\sqrt{s} = 13$
TeV
Phys. Lett. B **801** (2020) 135183.
56. A.M. Sirunyan et al. with K. Osterberg,
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
Eur. Phys. J. C **80** (2020) 3.
57. A.M. Sirunyan et al. with K. Osterberg,
Search for dark matter particles produced in association with a Higgs boson in proton-
proton collisions at $\sqrt{s} = 13$ TeV
JHEP **03** (2020) 025.
58. A.M. Sirunyan et al. with K. Osterberg,
Search for direct pair production of supersymmetric partners to the τ lepton in proton-
proton collisions at $\sqrt{s} = 13$ TeV
Eur. Phys. J. C **80** (2020) 189.
59. A.M. Sirunyan et al. with K. Osterberg,
Measurement of the $t\bar{t}b\bar{b}$ production cross section in the all-jet final state in pp collisions
at $\sqrt{s} = 13$ TeV
Phys. Lett. B **803** (2020) 135285.

60. A.M. Sirunyan et al. with K. Osterberg,
Evidence for WW production from double-parton interactions in proton-proton collisions at $\sqrt{s} = 13$ TeV
Eur. Phys. J. C **80** (2020) 41.
61. A.M. Sirunyan et al. with K. Osterberg,
Search for top squark pair production in a final state with two tau leptons in proton-proton collisions at $\sqrt{s} = 13$ TeV
JHEP **02** (2020) 015.
62. A.M. Sirunyan et al. with K. Osterberg,
Running of the top quark mass from proton-proton collisions at $\sqrt{s} = 13$ TeV
Phys. Lett. B **803** (2020) 135263.
63. A.M. Sirunyan et al. with K. Osterberg,
Measurement of the top quark pair production cross section in dilepton final states containing one τ lepton in pp collisions at $\sqrt{s} = 13$ TeV
JHEP **02** (2020) 191.
64. A.M. Sirunyan et al. with K. Osterberg,
Search for Supersymmetry with a Compressed Mass Spectrum in Events with a Soft τ Lepton, a Highly Energetic Jet, and Large Missing Transverse Momentum in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV
Phys. Rev. Lett. **124** (2020) 041803.
65. A.M. Sirunyan et al. with K. Osterberg,
Search for a heavy Higgs boson decaying to a pair of W bosons in proton-proton collisions at $\sqrt{s} = 13$ TeV
JHEP **03** (2020) 034.
66. A.M. Sirunyan et al. with K. Osterberg,
Study of excited Λ_b^0 states decaying to $\Lambda_b^0 \pi^+ \pi^-$ in proton-proton collisions at $\sqrt{s} = 13$ TeV
Phys. Lett. B **802** (2020) 135345.
67. A.M. Sirunyan et al. with K. Osterberg,
A multi-dimensional search for new heavy resonances decaying to boosted WW, WZ, or ZZ boson pairs in the dijet final state at 13 TeV
Eur. Phys. J. C **80** (2020) 237.
68. A.M. Sirunyan et al. with K. Osterberg,
Measurement of differential cross sections and charge ratios for t -channel single top quark production in proton-proton collisions at $\sqrt{s} = 13$ TeV
Eur. Phys. J. C **80** (2020) 370.
69. A.M. Sirunyan et al. with K. Osterberg,
Search for heavy Higgs bosons decaying to a top quark pair in proton-proton collisions at $\sqrt{s} = 13$ TeV
JHEP **04** (2020) 171.
70. A.M. Sirunyan et al. with K. Osterberg,
Calibration of the CMS hadron calorimeters using proton-proton collision data at $\sqrt{s} = 13$ TeV
JINST **15** (2020) P05002.
71. A.M. Sirunyan et al. with K. Osterberg,
Mixed higher-order anisotropic flow and nonlinear response coefficients of charged particles in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ and 5.02 TeV
Eur. Phys. J. C **80** (2020) 534.

72. A.M. Sirunyan et al. with K. Osterberg,
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
JHEP 03 (2020) 065.
73. A.M. Sirunyan et al. with K. Osterberg,
Study of J/Ψ meson production from jet fragmentation in pp collisions at $\sqrt{s} = 8$ TeV
Phys. Lett. B 804 (2020) 135409.
74. A.M. Sirunyan et al. with K. Osterberg,
A search for the standard model Higgs boson decaying to charm quarks
JHEP 03 (2020) 131.
75. A.M. Sirunyan et al. with K. Osterberg,
Search for new neutral Higgs bosons through the $H \rightarrow ZA \rightarrow l^+l^-b\bar{b}$ process in pp collisions at $\sqrt{s} = 13$ TeV
JHEP 03 (2020) 055.
76. A.M. Sirunyan et al. with K. Osterberg,
Measurement of properties of $B_s^0 \rightarrow \mu^+\mu$ decays and search for $B^0 \rightarrow \mu^+\mu$ with the CMS experiment
JHEP 04 (2020) 188.
77. A.M. Sirunyan et al. with K. Osterberg,
Measurement of the Jet Mass Distribution and Top Quark Mass in Hadronic Decays of Boosted Top Quarks in pp Collisions at $\sqrt{s} = 13$ TeV
Phys. Rev. Lett. 124 (2020) 202001.
78. A.M. Sirunyan et al. with K. Osterberg,
Search for high mass dijet resonances with a new background prediction method in proton-proton collisions at $\sqrt{s} = 13$ TeV
JHEP 05 (2020) 033.
79. A.M. Sirunyan et al. with K. Osterberg,
Search for physics beyond the standard model in multilepton final states in proton-proton collisions at $\sqrt{s} = 13$ TeV
JHEP 03 (2020) 051.
80. A.M. Sirunyan et al. with K. Osterberg,
Search for dijet resonances using events with three jets in proton-proton collisions at $\sqrt{s} = 13$ TeV
Phys. Lett. B 805 (2020) 135448.
81. A.M. Sirunyan et al. with K. Osterberg,
Search for supersymmetry in pp collisions at $\sqrt{s} = 13$ TeV with 137 fb^{-1} in final states with a single lepton using the sum of masses of large-radius jets
Phys. Rev. D 101 (2020) 052010.
82. A.M. Sirunyan et al. with K. Osterberg,
Search for lepton flavour violating decays of a neutral heavy Higgs boson to $\mu\tau$ and $e\tau$ in proton-proton collisions at $\sqrt{s} = 13$ TeV
JHEP 03 (2020) 103.
83. A.M. Sirunyan et al. with K. Osterberg,
Performance of the reconstruction and identification of high-momentum muons in proton-proton collisions at $\sqrt{s} = 13$ TeV
JINST 15 (2020) P02027.

84. A.M. Sirunyan et al. with K. Osterberg,
Search for a Narrow Resonance Lighter than 200 GeV Decaying to a Pair of Muons in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV
Phys. Rev. Lett. **124** (2020) 131802.
85. A.M. Sirunyan et al. with K. Osterberg,
Measurement of the χ_{c1} versus χ_{c2} Polarizations in Proton-Proton Collisions at $\sqrt{s} = 8$ TeV
Phys. Rev. Lett. **124** (2020) 162002.
86. A.M. Sirunyan et al. with K. Osterberg,
A measurement of the Higgs boson mass in the diphoton decay channel
Phys. Lett. B **805** (2020) 135425.
87. A.M. Sirunyan et al. with K. Osterberg,
Measurement of the cross section for electroweak production of a Z boson, a photon and two jets in proton-proton collisions at $\sqrt{s} = 13$ TeV and constraints on anomalous quartic couplings
JHEP **06** (2020) 076.
88. A.M. Sirunyan et al. with K. Osterberg,
Determination of the strong coupling constant $\alpha_S(m_Z)$ from measurements of inclusive $W^\pm$ and Z boson production cross sections in proton-proton collisions at $\sqrt{s} = 7$ and 8 TeV
JHEP **06** (2020) 018.
89. A.M. Sirunyan et al. with K. Osterberg,
Search for direct top squark pair production in events with one lepton, jets, and missing transverse momentum at 13 TeV with the CMS experiment
JHEP **05** (2020) 023.
90. A.M. Sirunyan et al. with K. Osterberg,
Measurement of the top quark forward-backward production asymmetry and the anomalous chromoelectric and chromomagnetic moments in pp collisions at $\sqrt{s} = 13$ TeV
JHEP **06** (2020) 146.
91. A.M. Sirunyan et al. with K. Osterberg,
Pileup mitigation at CMS in 13 TeV data
JINST **15** (2020) P09018.
92. A.M. Sirunyan et al. with K. Osterberg,
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
JHEP **05** (2020) 052.
93. A.M. Sirunyan et al. with K. Osterberg,
Measurements of dose-rate effects in the radiation damage of plastic scintillator tiles using silicon photomultipliers
JINST **15** (2020) P06009.
94. A.M. Sirunyan et al. with K. Osterberg,
Measurement of the associated production of a Z boson with charm or bottom quark jets in proton-proton collisions at $\sqrt{s} = 13$ TeV
Phys. Rev. D **102** (2020) 032007.
95. A.M. Sirunyan et al. with K. Osterberg,
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
JHEP **07** (2020) 126.

96. A.M. Sirunyan et al. with K. Osterberg,
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 $\sqrt{s} = 13$ TeV
Eur. Phys. J. C **80** (2020) **752**.
97. A.M. Sirunyan et al. with K. Osterberg,
Search for disappearing tracks in proton-proton collisions at $\sqrt{s} = 13$ TeV
Phys. Lett. B **806** (2020) **135502**.
98. A.M. Sirunyan et al. with K. Osterberg,
Measurement of the $\Upsilon(1S)$ pair production cross section and search for resonances decaying to $\Upsilon(1S)\mu^+\mu^-$ in proton-proton collisions at $\sqrt{s} = 13$ TeV
Phys. Lett. B **805** (2020) **135578**.
99. A.M. Sirunyan et al. with K. Osterberg,
Study of central exclusive $\pi^+\pi^-$ production in proton-proton collisions at $\sqrt{s} = 5.02$ and 13 TeV
Eur. Phys. J. C **80** (2020) **718**.
100. A.M. Sirunyan et al. with K. Osterberg,
Dependence of inclusive jet production on the anti- k_T distance parameter in pp collisions at $\sqrt{s} = 13$ TeV
JHEP **12** (2020) **082**.
101. A.M. Sirunyan et al. with K. Osterberg,
Measurement of the cross section for $t\bar{t}$ production with additional jets and b jets in pp collisions at $\sqrt{s} = 13$ TeV
JHEP **07** (2020) **125**.
102. A.M. Sirunyan et al. with K. Osterberg,
Measurement of quark- and gluon-like jet fractions using jet charge in PbPb and pp collisions at 5.02 TeV
JHEP **07** (2020) **115**.
103. A.M. Sirunyan et al. with K. Osterberg,
Measurements of $t\bar{t}H$ Production and the CP Structure of the Yukawa Interaction between the Higgs Boson and Top Quark in the Diphoton Decay Channel
Phys. Rev. Lett. **125** (2020) **061801**.
104. A.M. Sirunyan et al. with K. Osterberg,
Identification of heavy, energetic, hadronically decaying particles using machine-learning techniques
JINST **15** (2020) **P06005**.
105. A.M. Sirunyan et al. with K. Osterberg,
Measurement of CKM matrix elements in single top quark t -channel production in proton-proton collisions at $\sqrt{s} = 13$ TeV
Phys. Lett. B **808** (2020) **135609**.
106. A.M. Sirunyan et al. with K. Osterberg,
Measurements of production cross sections of WZ and same-sign WW boson pairs in association with two jets in proton-proton collisions at $\sqrt{s} = 13$ TeV
Phys. Lett. B **809** (2020) **135710**.
107. G. Aad et al. with K. Osterberg (ATLAS and CMS collaborations),
Combination of the W boson polarization measurements in top quark decays using ATLAS and CMS data at $\sqrt{s} = 8$ TeV
JHEP **08** (2020) **051**.

108. A.M. Sirunyan et al. with K. Osterberg,
The production of isolated photons in PbPb and pp collisions at $\sqrt{s_{NN}} = 5.02$ TeV
JHEP 07 (2020) 116.
109. A.M. Sirunyan et al. with K. Osterberg,
Search for a light pseudoscalar Higgs boson in the boosted $\mu\mu\tau\tau$ final state in proton-proton collisions at $\sqrt{s} = 13$ TeV
JHEP 08 (2020) 139.
110. A.M. Sirunyan et al. with K. Osterberg,
Search for resonant pair production of Higgs bosons in the $bbZZ$ channel in proton-proton collisions at $\sqrt{s} = 13$ TeV
Phys. Rev. D 102 (2020) 032003.
111. A.M. Sirunyan et al. with K. Osterberg,
Search for supersymmetry in proton-proton collisions at $\sqrt{s} = 13$ TeV in events with high-momentum Z bosons and missing transverse momentum
JHEP 09 (2020) 149.
112. A.M. Sirunyan et al. with K. Osterberg,
Search for a light charged Higgs boson in the $H^\pm \rightarrow cs$ channel in proton-proton collisions at $\sqrt{s} = 13$ TeV
Phys. Rev. D 102 (2020) 072001.
113. A.M. Sirunyan et al. with K. Osterberg,
Observation of the $B_s^0 \rightarrow X(3872)\phi$ decay
Phys. Rev. Lett. 125 (2020) 152001.
114. A.M. Sirunyan et al. with K. Osterberg,
Measurement of b jet shapes in proton-proton collisions at $\sqrt{s} = 5.02$ TeV
JHEP 05 (2021) 054.
115. A.M. Sirunyan et al. with K. Osterberg,
Performance of the CMS Level-1 trigger in proton-proton collisions at $\sqrt{s} = 13$ TeV
JINST 15 (2020) P10017.
116. A.M. Sirunyan et al. with K. Osterberg,
Measurement of the azimuthal anisotropy of $\Upsilon(1S)$ and $\Upsilon(2S)$ mesons in PbPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV
Phys. Lett. B 819 (2021) 136385.
117. A.M. Sirunyan et al. with K. Osterberg,
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