

## Curriculum Vitae

John Perry Cumalat  
Department of Physics  
Campus Box 390  
University of Colorado  
Boulder, CO 80309

---

### Education:

B.A., University of California, Santa Barbara, 1970  
M.A., University of California, Santa Barbara, 1971  
Ph.D., University of California, Santa Barbara, 1977

### Appointments:

7/16-7/20 Chair, Dept. of Physics, University of Colorado  
9/14- Professor of Distinction, University of Colorado  
7/13- 6/16 Interim External Chair, Religious Studies, Univ. of Colorado  
7/10- 1/11 Acting Chair, Dept. of Physics, University of Colorado  
9/96- 9/08 Chair, Dept. of Physics, University of Colorado  
5/91- Professor, University of Colorado  
7/85- 5/91 Associate Professor, University of Colorado  
9/81- 6/85 Assistant Professor, University of Colorado  
9/81- 6/85 Outstanding Junior Investigator, D.O.E.  
6/79- 8/81 Robert R. Wilson Fellow  
10/77- 6/79 Research Associate, Fermi National Accelerator Lab.  
6/73- 9/77 Research Assistant, University of California  
6/72- 5/73 Head Teaching Assistant, Univ. of California  
9/71- 5/72 Teaching Assistant, Univ. of California

### Societies:

Sigma Xi  
American Physical Society, At-Large Member in Four Corners Section (2007-2010),  
Vice Chair (2011-2012), Chair (2012-2013), Past-Chair (2013-2014)  
American Association for the Advancement of Science  
American Association of Physics Teachers  
American Astronomical Society

Honors and Awards:

Robert R. Wilson Fellow, Department of Energy, 1979  
Elected Co-spokesman of E-687, Fermi Natl. Accelerator Lab, 1981-1995  
Outstanding Junior Investigator, Department of Energy, 1982  
Fellow, American Physical Society, 1992  
Elected Spokesman of FOCUS Expt. Fermi National Accelerator Lab, 1992-2007  
Research Faculty Fellowship, CU-Boulder Graduate School, 1995-96; 2009-10  
Best Should Teach Award, CU-Boulder Graduate Teacher Program, 2003  
Fellow, American Assoc. for Advancement of Science, 2009  
Robert L. Stearns Award, CU-Boulder Alumni Association, 2010  
BFA Excellence in Service Award, Boulder Faculty Assembly, 2013  
Professor of Distinction, College of A&S, 2014

Group Awards:

Hesburgh Award (Grad Teacher Program), TIAA-CREF, 2006  
President's Award for Outstanding Leadership (Physics Dept.), CU System, 2008  
The High Energy and Particle Physics Prize (CMS), Eur. Phys. Soc., 2013  
Award for Improving Undergraduate Education, American Physical Society, 2020

## RIGOROUSLY REVIEWED JOURNALS

- 1) "Inclusive  $\pi^0$  and  $\eta$  Photoproduction at High Transverse Momenta", A.M. Eisner, D.O. Caldwell, J.P. Cumalat, B.N. Kendall, T.P. McPharlin, R.J. Morrison, and F.V. Murphy, Phys. Rev. Letts.**33**, 865 (1974)
- 2) "Measurement of  $J/\psi(3100)$  Photoproduction in Deuterium at a Mean Energy of 55 GeV", T. Nash, A. Belousov, B. Govorkov, D.O. Caldwell, J.P. Cumalat, A.M. Eisner, R.J. Morrison, F.V. Murphy, S.J. Yellin, P.J. Davis, R.M. Egloff, G. Luste, and J.M. Prentice, Phys. Rev. Letts.**36**, 1233(1976)
- 3) "Precision Comparison of Inelastic Electron and Positron Scattering from Hydrogen", D.L. Fancher, D.O. Caldwell, J.P. Cumalat, A.M. Eisner, T.P. McPharlin, R.J. Morrison, F.V. Murphy, and S.J. Yellin, Phys. Rev. Letts.**37**, 1323 (1976)
- 4) "A Measurement of  $e^+ - e^-$  Asymmetry in Deep-Inelastic Bremsstrahlung", D.L. Fancher, D.O. Caldwell, J.P. Cumalat, A.M. Eisner, T.P. McPharlin, R.J. Morrison, F.V. Murphy, and S.J. Yellin, Phys. Rev. Letts. **38**, 800 (1977)
- 5) "Use of Optical Filters to Improve Lead Glass Shower Counter Resolution", R.J. Morrison, J.P. Cumalat, A.M. Eisner, and C. Lauer, Nuclear Instruments and Methods **143**, p311-313 (1977)
- 6) "Measurements of the Photon Total Cross Section of Protons from 18 to 185 GeV", D.O. Caldwell, J.P. Cumalat, A.M. Eisner, A. Lu, R.J. Morrison, F.V. Murphy, S.J. Yellin, P.J. Davis, R.M. Egloff, G. Luste, J.F. Martin, J.M. Prentice, and T. Nash, Phys. Rev. Letts.**40**, 1233(1978)
- 7) "Measurement of Shadowing in Photon-nucleus Total Cross Sections from 20-185 GeV", D.O. Caldwell, J.P. Cumalat, A.M. Eisner, A. Lu, R.J. Morrison, F.V. Murphy, S.J. Yellin, P.J. Davis, R.M. Egloff, G. Luste, J.F. Martin, J.M. Prentice, and T. Nash, Phys. Rev. Letts.**42**, 553(1979)
- 8) "Evidence for the High Energy Photoproduction of Charmed Mesons", M.S. Atiya, S.D. Holmes, B.C. Knapp, W. Lee, W.J. Wisniewski, P. Avery, J. Butler, G. Gladding, T. O'Halloran, J.J. Russell, A. Wattenberg, J. Wiss, M. Binkley, J.P. Cumalat, I. Gaines, M. Gormley, R.L. Loveless, and J. Peoples, Phys. Rev. Letts.**43**, 414 (1979)
- 9) "Measurements of Elastic  $\rho$ - and  $\phi$ -Meson Photoproduction Cross Sections on Protons from 30 to 180 GeV", R.M. Egloff, P.J. Davis, G. Luste, J.F. Martin, J.M. Prentice, D.O. Caldwell, J.P. Cumalat, A.M. Eisner, A. Lu, R.J. Morrison, F.V. Murphy, S.J. Yellin, and T. Nash, Phys. Rev. Letts.**43**, 657(1979)
- 10) "Measurement of  $\omega$ -Meson Photoproduction from 46 to 180 GeV", R.M. Egloff, P.J. Davis, G. Luste, J.F. Martin, J.M. Prentice, D.O. Caldwell, J.P. Cumalat, A.M. Eisner, A. Lu, R.J. Morrison, F.V. Murphy, S.J. Yellin, and T. Nash, Phys. Rev. Letts.**43**, 1545(1979)
- 11) "High Energy Photoproduction of  $\rho'(1600)$ ", M.S. Atiya, S.D. Holmes, B.C. Knapp, W. Lee, R. Seto, W.J. Wisniewski, P. Avery, J. Butler, G. Gladding, M.C. Goodman, T. O'Halloran, J.J. Russell, A. Wattenberg, J. Wiss, M. Binkley, J.P. Cumalat, I. Gaines, M. Gormley, R.L. Loveless, and J. Peoples, Phys. Rev. Letts.**43**, 1691(1979)

- 12) "Inclusive Electroproduction in the Deep-Inelastic Region", T.P. McPharlin, D.O. Caldwell, J.P. Cumalat, A.M. Eisner, D.L. Fancher, R.J. Morrison, F.V. Murphy, T.R. Risser and S.J. Yellin, Phys. Letts. **90B**, 479(1980)
- 13) "A Study of the Zweig-Okubo-Iizuka Rule in Exclusive Photoproduction Reactions", M.C. Goodman, P. Avery, J. Butler, G. Gladding, T. O'Halloran, J.J. Russell, A. Wattenberg, J. Wiss, M. Binkley, J.P. Cumalat, I. Gaines, M. Gormley, R.L. Loveless, J. Peoples, M. Atiya, S.D. Holmes, B. C. Knapp, W. Lee, and W. Wisniewski, Phys. Rev. D, Vol. **22**, Num. 3, 537 (1980)
- 14) "High Energy Photoproduction of  $D^{*+}$ ", P. Avery , J. Wiss, J. Butler, G. Gladding, M.C. Goodman, T. O'Halloran, J.J. Russell, A. Wattenberg, M. Binkley, J.P. Cumalat, I. Gaines, M. Gormley, R.L. Loveless, J. Peoples, M. Atiya, S.D. Holmes, B. C. Knapp, W. Lee, and W. Wisniewski, Phys. Rev. Letts. **44**, 1309 (1980)
- 15) "Photoproduction of Charmed Baryons", J.J. Russell, P. Avery, J. Butler, G. Gladding, M.C. Goodman, T. O'Halloran, J.J. Russell, A. Wattenberg, J. Wiss, M. Binkley, J.P. Cumalat, I. Gaines, M. Gormley, R.L. Loveless, J. Peoples, M. Atiya, S.D. Holmes, B. C. Knapp, W. Lee, and W. Wisniewski, Phys. Rev. Letts. **46**, 799 (1981)
- 16) " $J/\psi$  Photoproduction from 60-300 GeV/c ", M. Binkley, C. Bohler, J. Butler, J. Cumalat, I. Gaines, M. Gormley, D. Harding, R.L. Loveless, J. Peoples, P. callahan, G. Gladding, C. Olszewski, and A. Wattenberg, Phys. Rev. Lett. **48**, 73 (1982)
- 17) " $\Psi'$  Photoproduction at a Mean Energy of 150 GeV", M. Binkley, C. Bohler, J. Butler, J. Cumalat, I. Gaines, M. Gormley, D. Harding, R.L. Loveless, J. Peoples, P. callahan, G. Gladding, C. Olszewski, and A. Wattenberg, Phys. Rev. Lett. **50**, 302 (1984)
- 18) "A Highly Compact Multiwire Proportional Chamber System with 80  $\mu\text{m}$  Resolution", P. Coteus, J. Cumalat, M. Binkley, K. Kephart, C. Lindenmeyer, J. Peoples, and E. Erdos, Nuclear Instruments and Methods, **222**, 474-478 (1984)
- 19) "Inclusive Production of  $\Omega^-$  and  $\Omega^+$  by  $K_L^0$ -carbon Interactions in the Energy Range 80-280 GeV/c", E.P. Hartouni, M.S. Atiya, S.D. Holmes, B.C. Knapp, W. Lee, R. Seto, W.J. Wisniewski, P.Avery, J. Butler, G. Gladding, M.C. Goodman, T. O'Halloran, J.J. Russell, A. Wattenberg, J. Wiss, M. Binkley, J.P. Cumalat, I. Gaines, M. Gormley, R.L. Loveless, and J. Peoples, Phys. Rev. Letts.**54**, 628(1985)
- 20) "High-Energy Diffraction Dissociation of  $K_L^0$  into Exclusive Final States", M.J. Lamm, J.E. Wiss, P. Avery , J. Butler, G. Gladding, M.C. Goodman, T. O'Halloran, J.J. Russell, A. Wattenberg, J. Busenitz, P. Callahan, C. Olszewski, M. Binkley, J.P. Cumalat, I. Gaines, M. Gormley, J. Peoples, M. Atiya, E.P. Hartouni, S.D. Holmes, B. C. Knapp, W. Lee, R. Seto, and W. Wisniewski, Phys. Rev. **D36**, 3341-3352 (1987)
- 21) "Production of the Charmed Strange Baryon  $\Xi_c^+$  by Neutrons", P. Coteus, M. Binkley, F. Bossi, J. Butler, J. P. Cumalat, M. DiCorato, M. Diesburg, J. Enagonio, J. Filaseta, P. L. Frabetti, I. Gaines, P. Garbincius, M. Gormley, J. Haggerty, D. Harding, T. Kroc, R. Ladbury, P. Lebrun, P. F. Manfredi, J. Peoples, A. Sala, C. Shipbaugh, J. Slaughter, and J. Wiss, Phys. Rev. Lett. **59**, 1530-1533 (1987).
- 22) "Measurements of the  $\Sigma_c^0 - \Lambda_c^+$  and  $\Sigma_c^{++} - \Lambda_c^+$  Mass Differences", M. Diesburg, R. Ladbury, M. Binkley, F. Bossi, J. Butler, P. Coteus, J. P. Cumalat, M. DiCorato, J. Enagonio,

J. Filaseta, P. L. Frabetti, I. Gaines, P. Garbincius, M. Gormley, J. Haggerty, D. Harding, T. Kroc, P. Lebrun, P. F. Manfredi, J. Peoples, A. Sala, C. Shipbaugh, J. Slaughter, and J. Wiss, Phys. Rev. Lett. **59**, 2711 (1987)

23) "A Model for the Optical Response of Plastic Scintillator", G. Introzzi, S.P. Ratti, P.W. Coteus, S. Culy, J.P. Cumalat, Nuclear Instruments and Methods A269, 166 (1988)

24) "The First Observation of  $D^0 \rightarrow K^0 \bar{K}^0$ ", J. P. Cumalat, C. Shipbaugh, M. Binkley, F. Bossi, J. Butler, P. Coteus, M. DiCorato, M. Diesburg, J. Enagonio, J. Filaseta, P. L. Frabetti, I. Gaines, P. Garbincius, M. Gormley, J. Haggerty, D. Harding, T. Kroc, R. Ladbury, P. Lebrun, P. F. Manfredi, J. Peoples, A. Sala, J. Slaughter, and J. Wiss, Phys. Lett. **B210**, 253 (1988)

25) "Production of the  $D_s^\pm$  by High Energy Neutrons", C. Shipbaugh, J. Wiss, M. Binkley, J. Butler, P. Coteus, M. DiCorato, M. Diesburg, J. Enagonio, J. Filaseta, P. L. Frabetti, I. Gaines, P. Garbincius, M. Gormley, D. Harding, T. Kroc, R. Ladbury, P. Lebrun, P. F. Manfredi, J. Peoples, A. Sala, and J. Slaughter, Phys. Rev. Lett. **60**, 2117 (1988)

26) "High Energy Photoproduction of Resonances Decaying into  $\pi^+ \pi^- \pi^0$ ,  $K^+ K^-$ , and pp", J. Busenitz, C. Olszewski, P. Callahan, G. Gladding, A. Wattenberg, M. Binkley, J. Butler, J. Cumalat, I. Gaines, M. Gormley, D. Harding, R.L. Loveless, and J.P. Peoples, Phys. Rev. **D40**, 1-21 (1989)

27) "Effects of Magnetic Fields on the Light Yield of Scintillator", J.P. Cumalat, H.W.K. Cheung, J. Hassed, B.D. Smith and A.D. Bross, Nuclear Instruments and Methods in Physics Research A293(1990) 606-614

28) "Minimum Ionizing Particle Detection Using Amorphous Silicon Diodes", J. Xi, E.E. Hollingsworth, R.H. Bultrago, D. Oakley, J.P. Cumalat, U. Nauenberg, J.A. McNeil, D.F. Anderson, and V. Perez-Mendez, in Nuclear Instruments and Methods A301, 219-222 (1991), also a colorado preprint COLOHEP-230.

29) "Measurement of the  $\Lambda_c^+$  and  $D_s^+$  Lifetimes", P.L. Frabetti, C.W. Bogart, H.W.K. Cheung, P. Coteus, S. Culy, J.P. Cumalat, D. Kaplan, J.N. Butler, F. Davenport, I. Gaines, P.H. Garbincius, S. Gourlay, D.J. Harding, P. Kasper, A. Kreymer, P. Lebrun, H. Mendez, S. Bianco, M. Enorini, F. L. Fabbri, A. Spallone, A. Zallo, R. Culbertson, M. Diesburg, G. Jaross, K. Lingel, P.D. Sheldon, J.R. Wilson, J. Wiss, G. Alimonti, G. Bellini, M. Di Corato, M. Giannarchi, P. Inzani, S. Malvezzi, P.F. Manfredi, D. Menasce, L. Moroni, D. Pedrini, L. Perasso, A. Sala, S. Sala, D. Torretta, M. Vittone, J.M. Bishop, J.K. Busenitz, N.M. Cason, J.D. Cunningham, R.W. Gardner, C.J. Kennedy, E.J. Mannel, R.J. Mountain, D.L. Puseljic, R.C. Ruchti, W.D. Shephard, M.E. Zanabria, S.P. Ratti, and A. Lopez, Physics Letters B251, 639-644, (Dec. 1990)

30) "Description and Performance of the Fermilab E687 Spectrometer" P.F. Frabetti, C.W. Bogart, H.W.K. Cheung, P. Coteus, S. Culy, J.P. Cumalat, D. Kaplan, J.N. Butler, F. Davenport, I. Gaines, P.H. Garbincius, S. Gourlay, D.J. Harding, P. Kasper, A. Kreymer, P. Lebrun, H. Mendez, S. Bianco, M. Enorini, F. L. Fabbri, A. Spallone, A. Zallo, R. Culbertson, M. Diesburg, G. Jaross, K. Lingel, P.D. Sheldon, J.R. Wilson, J. Wiss, G. Alimonti, G. Bellini, M. Di Corato, M. Giannarchi, P. Inzani, S. Malvezzi, P.F. Manfredi, D. Menasce, L. Moroni, D. Pedrini, L. Perasso, A. Sala, S. Sala, D. Torretta, M. Vittone, J.M. Bishop, J.K. Busenitz, N.M. Cason, J.D. Cunningham, R.W. Gardner, C.J. Kennedy, E.J. Mannel, R.J. Mountain, D.L. Puseljic, R.C. Ruchti, W.D. Shephard, M.E.

Zanabria, S.P. Ratti, and A. Lopez, Nuclear Instruments and Methods, **A320**, 519-543, (1992)

31) "A Measurement of the  $D^0$  and  $D^+$  Lifetimes", P.L. Frabetti, C.W. Bogart, H.W.K. Cheung, S. Culy, J.P. Cumalat, J.N. Butler, F. Davenport, I. Gaines, P.H. Garbincius, S. Gourlay, D.J. Harding, P. Kasper, A. Kreymer, P. Lebrun, H. Mendez, S. Bianco, M. Enorini, F.L. Fabbri, A. Spallone, A. Zallo, R. Culbertson, G. Jaross, K. Lingel, P.D. Sheldon, J.R. Wilson, J. Wiss, G. Alimonti, G. Bellini, M. Di Corato, M. Giammarchi, P. Inzani, S. Malvezzi, P.F. Manfredi, D. Menasce, L. Moroni, D. Pedrini, L. Perasso, A. Sala, S. Sala, D. Torretta, M. Vittone, D. Buchholz, C. Castoldi, B. Gobbi, S. Park, R. Yoshida, J.M. Bishop, J.K. Busenitz, N.M. Cason, J.D. Cunningham, R.W. Gardner, C.J. Kenn E.J. Mannel, R.J. Mountain, D.L. Puseljic, R.C. Ruchti, W.D. Shephard, M.E. Zan S.P. Ratti, P.Vitulo, and A. Lopez.

Phys. Lett. **B263**, 584-590 (1991)

32) "Measurement of the decays  $D^0 \rightarrow \pi^+ \pi^+ \pi^- \pi^-$ ,  $D^0 \rightarrow K^- K^+$ , and  $D_s^+ \rightarrow \phi \pi^+ \pi^+ \pi^-$ ". P.L. Frabetti, C.W. Bogart, H.W.K. Cheung, S. Culy, J.P. Cumalat, J.N. Butler, F. Davenport, I. Gaines, P.H. Garbincius, S. Gourlay, D.J. Harding, P. Kasper, A. Kreymer, P. Lebrun, H. Mendez, S. Bianco, F.L. Fabbri, A. Spallone, A. Zallo, R. Culbertson, G. Jaross, K. Lingel, P.D. Sheldon, J.R. Wilson, J. Wiss, G. Alimonti, G. Bellini, M. Di Corato, M. Giammarchi, P. Inzani, F. Leveraro, S. Malvezzi, D. Menasce, L. Moroni, D. Pedrini, L. Perasso, A. Sala, S. Sala, D. Torretta, M. Vittone, D. Buchholz, C. Castoldi, B. Gobbi, S. Park, R. Yoshida, J.M. Bishop, J.K. Busenitz, N.M. Cason, J.D. Cunningham, R.W. Gardner, C.J. Kenn E.J. Mannel, R.J. Mountain, D.L. Puseljic, R.C. Ruchti, W.D. Shephard, M.E. Zan V. Arena, S.P. Ratti, P.Vitulo, and A. Lopez.

Phys. Lett. **B281**, 167-172 (1992)

33) "Study of  $D^0 \rightarrow K_S^0 \pi^+ \pi^-$  and  $D^0 \rightarrow K_S^0 K^+ K^-$  in High Energy Photoproduction" P.L. Frabetti, C.W. Bogart, H.W.K. Cheung, P. Coteus, S. Culy, J.P. Cumalat, J.N. Butler, F. Davenport, I. Gaines, P.H. Garbincius, S. Gourlay, D.J. Harding, P. Kasper, A. Kreymer, P. Lebrun, H. Mendez, S. Bianco, M. Enorini, F.L. Fabbri, A. Spallone, A. Zallo, R. Culbertson, M. Diesburg, G. Jaross, K. Lingel, P.D. Sheldon, J.R. Wilson, J. Wiss, G. Alimonti, G. Bellini, M. Di Corato, M. Giammarchi, P. Inzani, F. Leveraro, S. Malvezzi, D. Menasce, L. Moroni, D. Pedrini, L. Perasso, A. Sala, S. Sala, D. Torretta, M. Vittone, J.M. Bishop, D. Buchholz, C. Castoldi, B. Gobbi, S. Park, R. Yoshida, J.K. Busenitz, N.M. Cason, J.D. Cunningham, R.W. Gardner, C.J. Kennedy, E.J. Mannel, R.J. Mountain, D.L. Puseljic, R.C. Ruchti, W.D. Shephard, M.E. Zanabria, G. Boca, S.P. Ratti, and A. Lopez, Physics Letters **B286**, 195-200 (1992)

34) "First Observation of  $\Omega_c^0 \rightarrow \Omega^- \pi^+$ ", P. L. Frabetti, H. W. K. Cheung, J. P. Cumalat, C. Dallapiccola, J. F. Ginkel, S. V. Greene, W. E. Johns, M. S. Nehring, J. N. Butler, S. Ci-hangir, I. Gaines, L. Garren, P. H. Garbincius, S. A. Gourlay, D. J. Harding, P. Kasper, A. Kreymer, P. Lebrun, S. Shukla, S. Bianco, F. L. Fabbri, S. Sarwar, A. Zallo, R. Culbertson, R. W. Gardner, R. Greene, J. Wiss, G. Alimonti, G. Bellini, B. Caccianiga, L. Cinquini, M. Di Corato, M. Giammarchi, P. Inzani, F. Leveraro, S. Malvezzi, D. Menasce, E. Meroni, L. Moroni, D. Pedrini, L. Perasso, A. Sala, S. Sala, D. Torretta, M. Vittone, D. Buchholz, D. Claes, B. Gobbi, B. O'Reilly, J. M. Bishop, N. M. Cason, C. J. Kennedy, G. N. Kim, T. F. Lin, D. L. Puseljic, R. C. Ruchti, W. D. Shephard, J. A. Swiatek, Z. Y. Wu, V. Arena, G. Boca, C. Castoldi, R. Diaferia, G. Gianini, S. P. Ratti, C. Riccardi, P. Vitulo, A. Lopez, G. P. Grim, V. S. Paolone, P. M. Yager, J. R. Wilson, P. D. Sheldon, F. Davenport, J. F. Filasetta, G. R. Blackett, M. Pisharody, T. Handler, B. G. Cheon, J. S. Kang, K. Y. Kim, Fermilab-Pub-320-E, Physics Letters **B300**, 190 (1993)

- 35) "A Measurement of the  $\Lambda_c^+$  Lifetime", P. L. Frabetti, H. W. K. Cheung, J. P. Cumalat, C. Dallapiccola, J. F. Ginkel, S. V. Greene, W. E. Johns, M. S. Nehring, J. N. Butler, S. Cihangir, I. Gaines, L. Garren, P. H. Garbincius, S. A. Gourlay, D. J. Harding, P. Kasper, A. Kreymer, P. Lebrun, S. Shukla, S. Bianco, F. L. Fabbri, S. Sarwar, A. Zallo, R. Culbertson, R. W. Gardner, R. Greene, J. Wiss, G. Alimonti, G. Bellini, B. Caccianiga, L. Cinquini, M. Di Corato, M. Giannarchi, P. Inzani, F. Leveraro, S. Malvezzi, D. Menasce, E. Meroni, L. Moroni, D. Pedrini, L. Perasso, A. Sala, S. Sala, D. Torretta, M. Vittone, D. Buchholz, D. Claes, B. Gobbi, B. O'Reilly, J. M. Bishop, N. M. Cason, C. J. Kennedy, G. N. Kim, T. F. Lin, D. L. Puseljic, R. C. Ruchti, W. D. Shephard, J. A. Swiatek, Z. Y. Wu, V. Arena, G. Boca, C. Castoldi, R. Diaferia, G. Gianini, S. P. Ratti, C. Riccardi, P. Vitulo, A. Lopez, G. P. Grim, V. S. Paolone, P. M. Yager, J. R. Wilson, P. D. Sheldon, F. Davenport, J. F. Filasetta, G. R. Blackett, M. Pisharody, T. Handler, B. G. Cheon, J. S. Kang, K. Y. Kim, Fermilab-Pub-355-E, Physical Review Letters **70**, 1755 (1993)
- 36) "Measurement of Mass and Lifetime of the  $\Xi_c^+$ ", P. L. Frabetti, H. W. K. Cheung, J. P. Cumalat, C. Dallapiccola, J. F. Ginkel, S. V. Greene, W. E. Johns, M. S. Nehring, J. N. Butler, S. Cihangir, I. Gaines, L. Garren, P. H. Garbincius, S. A. Gourlay, D. J. Harding, P. Kasper, A. Kreymer, P. Lebrun, S. Shukla, S. Bianco, F. L. Fabbri, S. Sarwar, A. Zallo, R. Culbertson, R. W. Gardner, R. Greene, J. Wiss, G. Alimonti, G. Bellini, B. Caccianiga, L. Cinquini, M. Di Corato, M. Giannarchi, P. Inzani, F. Leveraro, S. Malvezzi, D. Menasce, E. Meroni, L. Moroni, D. Pedrini, L. Perasso, A. Sala, S. Sala, D. Torretta, M. Vittone, D. Buchholz, D. Claes, B. Gobbi, B. O'Reilly, J. M. Bishop, N. M. Cason, C. J. Kennedy, G. N. Kim, T. F. Lin, D. L. Puseljic, R. C. Ruchti, W. D. Shephard, J. A. Swiatek, Z. Y. Wu, V. Arena, G. Boca, C. Castoldi, R. Diaferia, G. Gianini, S. P. Ratti, C. Riccardi, P. Vitulo, A. Lopez, G. P. Grim, V. S. Paolone, P. M. Yager, J. R. Wilson, P. D. Sheldon, F. Davenport, J. F. Filasetta, G. R. Blackett, M. Pisharody, T. Handler, B. G. Cheon, J. S. Kang, K. Y. Kim, Fermilab -Pub- 92-352-E, Physical Review Letters **70**, 1381 (1993)
- 37) "Measurement of the Lifetime of the  $\Xi_c^0$ ", P.L. Frabetti, H.W.K. Cheung, J.P. Cumalat, C. Dallapiccola, J.F. Ginkel, S.V. Greene, W.E. Johns, M.S. Nehring, J. N. Butler, S. Cihangir, I. Gaines, L. Garren, P.H. Garbincius, S.A. Gourlay, D.J. Harding, P. Kasper, A. Kreymer, P. Lebrun, S. Shukla, S. Bianco, F.L. Fabbri, S. Sarwar, A. Zallo, R. Culbertson, R. W. Gardner, R. Greene, J. Wiss, G. Alimonti, G. Bellini, B. Caccianiga, L. Cinquini, M. Di Corato, M. Giannarchi, P. Inzani, F. Leveraro, S. Malvezzi, D. Menasce, E. Meroni, L. Moroni, D. Pedrini, L. Perasso, A. Sala, S. Sala, D. Torretta, M. Vittone, D. Buchholz, D. Claes, B. Gobbi, B. O'Reilly, J.M. Bishop, N.M. Cason, C.J. Kennedy, G.N. Kim, T.F. Lin, D.L. Puseljic, R.C. Ruchti, W.D. Shephard, J.A. Swiatek, Z.Y. Wu, V. Arena, G. Boca, C. Castoldi, R. Diaferia, G. Gianini, S.P. Ratti, C. Riccardi, P. Vitulo, A. Lopez, G.P. Grim, V.S. Paolone, P.M. Yager, J.R. Wilson, P.D. Sheldon, F. Davenport, J.F. Filasetta, G.R. Blackett, M. Pisharody, T. Handler, B.G. Cheon, J.S. Kang, K.Y. Kim, Fermilab -Pub- 92-394-E Physical Review Letters **70**, 2058 (1993)
- 38) "A Wideband Photon Beam at the Fermilab Tevatron to Study Heavy Flavors", P. L. Frabetti, C.W. Bogart, H.W.K. Cheung, J.P. Cumalat, S. Culy, W.E. Johns, J.N. Butler, S. Cihangir, R. Currier, F. Davenport, I. Gaines, P.H. Garbincius, S.A. Gourlay, D.J. Harding, R. Justice, P. Kasper, A. Kreymer, P. Lebrun, S. Shukla, S. Bianco, F.L. Fabbri, A. Spallone, A. Zallo, G. Jaross, K. Lingel, J. Wiss, G. Alimonti, G. Bellini, B. Caccianiga, W.R. Cavalletti, L. Cinquini, M. Di Corato, P.D'Angelo, M. Giannarchi, P. Inzani, F. Leveraro, S. Malvezzi, P.F. Manfredi, D. Menasce, E. Meroni, L. Moroni, D. Pedrini,

L. Perasso, F. Ragusa, A. Sala, S. Sala, D. Torretta, M. Vittone, D. Buchholz, C. Castoldi, D. Claes, B. Gobbi, S. Park, R. Yoshida, J.M. Bishop, J.K. Busenitz, N.M. Cason, J.D. Cunningham, R.W. Gardner, C.J. Kennedy, E.J. Mannel, R.J. Mountain, D.L. Puseljic, R.C. Ruchti, W.D. Shephard, Z.Y. Wu, M.E. Zanabria, V. Arena, G. Boca, R. Diaferia, S. P. Ratti, C. Riccardi, P. Vitulo, A. Lopez, H. Mendez, J. R. Wilson, Fermilab -Pub- 92-320-E, Nuclear Instruments and Methods, **A329**, p.62 (1993)

39) "A Measurement of Elastic  $J/\Psi$  Photoproduction Cross Section at Fermilab E687", V.S. Paolone, P.M. Yager, C.W. Bogart, H.W.K. Cheung, S. Culy, J.P. Cumalat, J.N. Butler, F. Davenport, I. Gaines, P.H. Garbincius, S. Gourlay, D.J. Harding, P. Kasper, A. Kreymer, P. Lebrun, H. Mendez, S. Bianco, M. Enorini, F.L. Fabbri, A. Spallone, A. Zallo, R. Culbertson, G. Jaross, K. Lingel, P.D. Sheldon, J.R. Wilson, J. Wiss, G. Alimonti, G. Bellini, M. Di Corato, M. Giannmarchi, P. Inzani, F. Leveraro, S. Malvezzi, D. Menasce, E. Meroni, L. Moroni, D. Pedrini, L. Perasso, A. Sala, S. Sala, D. Torretta, M. Vittone, D. Buchholz, C. Castoldi, D. Claes, B. Gobbi, B. O'Reilly, S. Park, R. Yoshida, J.M. Bishop, J.K. Busenitz, N.M. Cason, J.D. Cunningham, R.W. Gardner, C.J. Kennedy, E.J. Mannel, R.J. Mountain, D.L. Puseljic, R.C. Ruchti, W.D. Shephard, M.E. Zanabria, G. Boca, S.P. Ratti, P. Vitulo, A. Lopez, Phys.Lett.B 316 (1993) 197-206

40) "Analysis of the Decay Mode  $D^+ \rightarrow \bar{K}^{*0} \mu^+ \nu$ ", P.L. Frabetti, G.P. Grim, V.S. Paolone, P.M. Yager, C.W. Bogart, H.W.K. Cheung, S. Culy, J.P. Cumalat, C. Dallapiccola, J.F. Ginkel, S.V. Greene, W.E. Johns, M.S. Nehring, J.N. Butler, S. Cihangir, I. Gaines, P.H. Garbincius, L. Garren, S. Gourlay, D.J. Harding, P. Kasper, A. Kreymer, P. Lebrun, H. Mendez, S. Shukla, S. Bianco, F.L. Fabbri, S. Sarwar, A. Spallone, A. Zallo, R. Culbertson, R.W. Gardner, R. Greene, G. Jaross, K. Lingel, J. Wiss, B.G. Cheon, J.S. Kang, K.Y. Kim, G. Alimonti, G. Bellini, B. Caccianiga, L. Cinquini, M. DiCorato, M. Giannmarchi, P. Inzani, F. Leveraro, S. Malvezzi, D. Menasce, E. Meroni, L. Moroni, D. Pedrini, L. Perasso, A. Sala, S. Sala, D. Torretta, M. Vittone, F. Davenport, J.F. Filasetta, D. Buchholz, D. Claes, B. Gobbi, B. O'Reilly, S. Park, R. Yoshida, J.M. Bishop, J.K. Busenitz, N.M. Cason, J.D. Cunningham, C.J. Kennedy, G.N. Kim, T.F. Lin, E.J. Mannel, R.J. Mountain, D.L. Puseljic, R.C. Ruchti, W.D. Shephard, J.A. Swiatek, Z.Y. Wu, M.E. Zanabria, V. Arena, G. Boca, C. Castoldi, R. Diaferia, G. Gianini, S.P. Ratti, C. Riccardi, P. Vitulo, A. Lopez, J.R. Wilson, G.R. Blackett, M. Pisharody, T. Handler, P.D. Sheldon, Physics Letters **B307**, p. 262 (1993)

41) "Studies of  $D\bar{D}$  Correlations in High Energy Photoproduction", P.L. Frabetti, G.P. Grim, V.S. Paolone, P.M. Yager, C.W. Bogart, H.W.K. Cheung, S. Culy, J.P. Cumalat, C. Dallapiccola, J.F. Ginkel, S.V. Greene, W.E. Johns, M.S. Nehring, J.N. Butler, S. Cihangir, I. Gaines, P.H. Garbincius, L. Garren, S. Gourlay, D.J. Harding, P. Kasper, A. Kreymer, P. Lebrun, H. Mendez, S. Shukla, S. Bianco, F.L. Fabbri, S. Sarwar, A. Spallone, A. Zallo, R. Culbertson, R.W. Gardner, R. Greene, G. Jaross, K. Lingel, J. Wiss, B.G. Cheon, J.S. Kang, K.Y. Kim, G. Alimonti, G. Bellini, B. Caccianiga, L. Cinquini, M. DiCorato, M. Giannmarchi, P. Inzani, F. Leveraro, S. Malvezzi, D. Menasce, E. Meroni, L. Moroni, D. Pedrini, L. Perasso, A. Sala, S. Sala, D. Torretta, M. Vittone, F. Davenport, J.F. Filasetta, D. Buchholz, D. Claes, B. Gobbi, B. O'Reilly, S. Park, R. Yoshida, J.M. Bishop, J.K. Busenitz, N.M. Cason, J.D. Cunningham, C.J. Kennedy, G.N. Kim, T.F. Lin, E.J. Mannel, R.J. Mountain, D.L. Puseljic, R.C. Ruchti, W.D. Shephard, J.A. Swiatek, Z.Y. Wu, M.E. Zanabria, V. Arena, G. Boca, C. Castoldi, R. Diaferia, G. Gianini, S.P. Ratti, C. Riccardi, P. Vitulo, A. Lopez, J.R. Wilson, G.R. Blackett, M. Pisharody, T. Handler, P.D. Sheldon, Physics Letters **B308**, p.193 (1993)

- 42) " Precise Measurement of the  $D_s^+$  Meson Lifetime", P.L. Frabetti, G.P. Grim, V.S. Paolone, P.M. Yager, C.W. Bogart, H.W.K. Cheung, S. Culy, J.P. Cumalat, C. Dallapiccola, J.F. Ginkel, S.V. Greene, W.E. Johns, M.S. Nehring, J.N. Butler, S. Cihangir, I. Gaines, P.H. Garbincius, L. Garren, S. Gourlay, D.J. Harding, P. Kasper, A. Kreymer, P. Lebrun, H. Mendez, S. Shukla, S. Bianco, F.L. Fabbri, S. Sarwar, A. Spallone, A. Zallo, R. Culbertson, R.W. Gardner, R. Greene, G. Jaross, K. Lingel, J. Wiss, B.G. Cheon, J.S. Kang, K.Y. Kim, G. Alimonti, G. Bellini, B. Caccianiga, L. Cinquini, M. DiCorato, M. Giannmarchi, P. Inzani, F. Leveraro, S. Malvezzi, D. Menasce, E. Meroni, L. Moroni, D. Pedrini, L. Perasso, A. Sala, S. Sala, D. Torretta, M. Vittone, F. Davenport, J.F. Filasetta, D. Buchholz, D. Claes, B. Gobbi, B. O'Reilly, S. Park, R. Yoshida, J.M. Bishop, J.K. Busenitz, N.M. Cason, J.D. Cunningham, C.J. Kennedy, G.N. Kim, T.F. Lin, E.J. Mannel, R.J. Mountain, D.L. Puseljic, R.C. Ruchti, W.D. Shephard, J.A. Swiatek, Z.Y. Wu, M.E. Zanabria, V. Arena, G. Boca, C. Castoldi, R. Diaferia, G. Gianini, S.P. Ratti, C. Riccardi, P. Vitulo, A. Lopez, J.R. Wilson, G.R. Blackett, M. Pisharody, T. Handler, P.D. Sheldon, Physics Review Letters **71**, p.827 (1993)
- 43) "Study of  $D^0 \rightarrow K^- \mu^+ \nu$  in High Energy Photoproduction", P.L. Frabetti, C.W. Bogart, H.W.K. Cheung, S. Culy, J.P. Cumalat, W.E. Johns, J.N. Butler, F. Davenport, I. Gaines, P.H. Garbincius, S. Gourlay, D.J. Harding, P. Kasper, A. Kreymer, P. Lebrun, H. Mendez, S. Bianco, M. Enorini, F.L. Fabbri, A. Spallone, A. Zallo, R. Culbertson, G. Jaross, K. Lingel, P.D. Sheldon, J.R. Wilson, J. Wiss, G. Alimonti, D. Alliata, G. Bellini, M. DiCorato, M. Giannmarchi, D. Hazan, P. Inzani, F. Leveraro, S. Malvezzi, D. Menasce, E. Meroni, L. Moroni, D. Pedrini, L. Perasso, A. Sala, S. Sala, D. Torretta, M. Vittone, D. Buchholz, C. Castoldi, D. Claes, B. Gobbi, S. Park, R. Yoshida, J.M. Bishop, J.K. Busenitz, N.M. Cason, J.D. Cunningham, C.J. Kennedy, E.J. Mannel, R.J. Mountain, D.L. Puseljic, R.C. Ruchti, W.D. Shephard, M.E. Zanabria, V. Arena, G. Boca, S.P. Ratti, P. Vitulo, A. Lopez, , accepted Physics Letters 7-21-93
- 44) "A Measurement of  $\Gamma(D_s^+ \rightarrow \phi \mu^+ \nu) / \Gamma(D_s^+ \rightarrow \phi \pi^+)$ ", P.L. Frabetti, G.P. Grim, V.S. Paolone, P.M. Yager, H.W.K. Cheung, J.P. Cumalat, C. Dallapiccola, J.F. Ginkel, S.V. Greene, W.E. Johns, M.S. Nehring, J.N. Butler, S. Cihangir, I. Gaines, P.H. Garbincius, L. Garren, S. Gourlay, D.J. Harding, P. Kasper, A. Kreymer, P. Lebrun, S. Shukla, S. Bianco, F.L. Fabbri, S. Sarwar, A. Zallo, R. Culbertson, R.W. Gardner, R. Greene, J. Wiss, B.G. Cheon, J.S. Kang, K.Y. Kim, G. Alimonti, G. Bellini, B. Caccianiga, L. Cinquini, M. DiCorato, M. Giannmarchi, P. Inzani, F. Leveraro, S. Malvezzi, D. Menasce, E. Meroni, L. Moroni, D. Pedrini, L. Perasso, A. Sala, S. Sala, D. Torretta, M. Vittone, F. Davenport, J.F. Filasetta, D. Buchholz, D. Claes, B. Gobbi, B. O'Reilly, J.M. Bishop, N.M. Cason, C.J. Kennedy, G.N. Kim, T.F. Lin, D.L. Puseljic, R.C. Ruchti, W.D. Shephard, J.A. Swiatek, Z.Y. Wu, V. Arena, G. Boca, C. Castoldi, R. Diaferia, G. Gianini, S.P. Ratti, C. Riccardi, P. Vitulo, A. Lopez, J.R. Wilson, F. Davenport, J.F. Filasetta, G.R. Blackett, M. Pisharody, T. Handler, P.D. Sheldon, Fermilab-Pub-93/184-E and Phys. Lett. **B313** p. 253 (1993)
- 45) "Evidence of the Cabibbo-Suppressed decay  $\Lambda_c^+ \rightarrow p K^- K^+$ ", P.L. Frabetti, G.P. Grim, V.S. Paolone, P.M. Yager, H.W.K. Cheung, J.P. Cumalat, C. Dallapiccola, J.F. Ginkel, S.V. Greene, W.E. Johns, M.S. Nehring, J.N. Butler, S. Cihangir, I. Gaines, P.H. Garbincius, L. Garren, S. Gourlay, D.J. Harding, P. Kasper, A. Kreymer, P. Lebrun, S. Shukla, S. Bianco, F.L. Fabbri, S. Sarwar, A. Zallo, R. Culbertson, R.W. Gardner, R. Greene, J. Wiss, B.G. Cheon, J.S. Kang, K.Y. Kim, G. Alimonti, G. Bellini, B. Caccianiga, L. Cinquini, M. DiCorato, M. Giannmarchi, P. Inzani, F. Leveraro, S. Malvezzi, D. Menasce, E. Meroni, L. Moroni, D. Pedrini, L. Perasso, A. Sala, S. Sala, D. Torretta, M. Vittone,

F. Davenport, J.F. Filasetta, D. Buchholz, D. Claes, B. Gobbi, B. O'Reilly, J.M. Bishop, N.M. Cason, C.J. Kennedy, G.N. Kim, T.F. Lin, D.L. Puseljic, R.C. Ruchti, W.D. Shephard, J.A. Swiatek, Z.Y. Wu, V. Arena, G. Boca, C. Castoldi, R. Diaferia, G. Gianini, S.P. Ratti, C. Riccardi, P. Vitulo, A. Lopez, J.R. Wilson, F. Davenport, J.F. Filasetta, G.R. Blackett, M. Pisharody, T. Handler, P.D. Sheldon, Fermilab-Pub-93/183-E and Phys. Lett. **B314** p. 477 (1993)

46) "Measurement of the Masses and Widths of L=1 Charmed Mesons", P.L. Frabetti, G.P. Grim, V.S. Paolone, P.M. Yager, H.W.K. Cheung, J.P. Cumalat, C. Dallapiccola, J.F. Ginkel, S.V. Greene, W.E. Johns, M.S. Nehring, J.N. Butler, S. Cihangir, I. Gaines, P.H. Garbincius, L. Garren, S. Gourlay, D.J. Harding, P. Kasper, A. Kreymer, P. Lebrun, S. Shukla, S. Bianco, F.L. Fabbri, S. Sarwar, A. Zallo, R. Culbertson, R.W. Gardner, R. Greene, J. Wiss, B.G. Cheon, J.S. Kang, K.Y. Kim, G. Alimonti, G. Bellini, B. Caccianiga, L. Cinquini, M. DiCorato, M. Giannmarchi, P. Inzani, F. Leveraro, S. Malvezzi, D. Menasce, E. Meroni, L. Moroni, D. Pedrini, L. Perasso, A. Sala, S. Sala, D. Torretta, M. Vittone, F. Davenport, J.F. Filasetta, D. Buchholz, D. Claes, B. Gobbi, B. O'Reilly, J.M. Bishop, N.M. Cason, C.J. Kennedy, G.N. Kim, T.F. Lin, D.L. Puseljic, R.C. Ruchti, W.D. Shephard, J.A. Swiatek, Z.Y. Wu, V. Arena, G. Boca, C. Castoldi, R. Diaferia, G. Gianini, S.P. Ratti, C. Riccardi, P. Vitulo, A. Lopez, J.R. Wilson, F. Davenport, J.F. Filasetta, G.R. Blackett, M. Pisharody, T. Handler, P.D. Sheldon, Fermilab-Pub-93/249-E and Phys. Rev. Lett. **72**, 324 (1994)

47) "An observation of an Excited State of the  $\Lambda_c^+$  Baryon", P.L. Frabetti, G.P. Grim, V.S. Paolone, P.M. Yager, H.W.K. Cheung, J.P. Cumalat, C. Dallapiccola, J.F. Ginkel, S.V. Greene, W.E. Johns, M.S. Nehring, J.N. Butler, S. Cihangir, I. Gaines, P.H. Garbincius, L. Garren, S. Gourlay, D.J. Harding, P. Kasper, A. Kreymer, P. Lebrun, S. Shukla, S. Bianco, F.L. Fabbri, S. Sarwar, A. Zallo, R. Culbertson, R.W. Gardner, R. Greene, J. Wiss, B.G. Cheon, J.S. Kang, K.Y. Kim, G. Alimonti, G. Bellini, B. Caccianiga, L. Cinquini, M. DiCorato, M. Giannmarchi, P. Inzani, F. Leveraro, S. Malvezzi, D. Menasce, E. Meroni, L. Moroni, D. Pedrini, L. Perasso, A. Sala, S. Sala, D. Torretta, M. Vittone, F. Davenport, J.F. Filasetta, D. Buchholz, D. Claes, B. Gobbi, B. O'Reilly, J.M. Bishop, N.M. Cason, C.J. Kennedy, G.N. Kim, T.F. Lin, D.L. Puseljic, R.C. Ruchti, W.D. Shephard, J.A. Swiatek, Z.Y. Wu, V. Arena, G. Boca, C. Castoldi, R. Diaferia, G. Gianini, S.P. Ratti, C. Riccardi, P. Vitulo, A. Lopez, J.R. Wilson, F. Davenport, J.F. Filasetta, G.R. Blackett, M. Pisharody, T. Handler, P.D. Sheldon, Fermilab-Pub-93/323-E and Phys. Rev. Lett. **72**, 961 (1994)

48) "A Measurement of the Cabibbo-Suppressed Decays  $D^0 \rightarrow \pi^- \pi^+$  and  $D^0 \rightarrow K^- K^+$ ", P.L. Frabetti, G.P. Grim, V.S. Paolone, P.M. Yager, H.W.K. Cheung, J.P. Cumalat, C. Dallapiccola, J.F. Ginkel, S.V. Greene, W.E. Johns, M.S. Nehring, J.N. Butler, S. Cihangir, I. Gaines, P.H. Garbincius, L. Garren, S. Gourlay, D.J. Harding, P. Kasper, A. Kreymer, P. Lebrun, S. Shukla, S. Bianco, F.L. Fabbri, S. Sarwar, A. Zallo, R. Culbertson, R.W. Gardner, R. Greene, J. Wiss, B.G. Cheon, J.S. Kang, K.Y. Kim, G. Alimonti, G. Bellini, B. Caccianiga, L. Cinquini, M. DiCorato, M. Giannmarchi, P. Inzani, F. Leveraro, S. Malvezzi, D. Menasce, E. Meroni, L. Moroni, D. Pedrini, L. Perasso, A. Sala, S. Sala, D. Torretta, M. Vittone, F. Davenport, J.F. Filasetta, D. Buchholz, D. Claes, B. Gobbi, B. O'Reilly, J.M. Bishop, N.M. Cason, C.J. Kennedy, G.N. Kim, T.F. Lin, D.L. Puseljic, R.C. Ruchti, W.D. Shephard, J.A. Swiatek, Z.Y. Wu, V. Arena, G. Boca, C. Castoldi, R. Diaferia, G. Gianini, S.P. Ratti, C. Riccardi, P. Vitulo, A. Lopez, J.R. Wilson, F. Davenport, J.F. Filasetta, G.R. Blackett, M. Pisharody, T. Handler, P.D. Sheldon, Fermilab-Pub-93/361-E and Phys. Lett. **B321**, 295 (1994)

- 49) "Precise Measurements of the  $D^o$  and  $D^+$  Meson Lifetimes", P.L. Frabetti, G.P. Grim, V.S. Paolone, P.M. Yager, H.W.K. Cheung, J.P. Cumalat, C. Dallapiccola, J.F. Ginkel, S.V. Greene, W.E. Johns, M.S. Nehring, J.N. Butler, S. Cihangir, I. Gaines, P.H. Garbincius, L. Garren, S. Gourlay, D.J. Harding, P. Kasper, A. Kreymer, P. Lebrun, S. Shukla, S. Bianco, F.L. Fabbri, S. Sarwar, A. Zallo, R. Culbertson, R.W. Gardner, R. Greene, J. Wiss, B.G. Cheon, J.S. Kang, K.Y. Kim, G. Alimonti, G. Bellini, B. Caccianiga, L. Cinquini, M. DiCorato, M. Giammarchi, P. Inzani, F. Leveraro, S. Malvezzi, D. Menasce, E. Meroni, L. Moroni, D. Pedrini, L. Perasso, A. Sala, S. Sala, D. Torretta, M. Vittone, F. Davenport, J.F. Filasetta, D. Buchholz, D. Claes, B. Gobbi, B. O'Reilly, J.M. Bishop, N.M. Cason, C.J. Kennedy, G.N. Kim, T.F. Lin, D.L. Puseljic, R.C. Ruchti, W.D. Shephard, J.A. Swiatek, Z.Y. Wu, V. Arena, G. Boca, C. Castoldi, R. Diaferia, G. Gianini, S.P. Ratti, C. Riccardi, P. Vitulo, A. Lopez, J.R. Wilson, F. Davenport, J.F. Filasetta, G.R. Blackett, M. Pisharody, T. Handler, P.D. Sheldon, Fermilab-Pub-93/332-E and Phys. Lett. **B323**, 459 (1994)
- 50) "Measurement of the Form Factors for the Decay  $D_s^+ \rightarrow \phi\mu^+\nu$ ", P.L. Frabetti, G.P. Grim, V.S. Paolone, P.M. Yager, H.W.K. Cheung, J.P. Cumalat, C. Dallapiccola, J.F. Ginkel, S.V. Greene, W.E. Johns, M.S. Nehring, J.N. Butler, S. Cihangir, I. Gaines, P.H. Garbincius, L. Garren, S. Gourlay, D.J. Harding, P. Kasper, A. Kreymer, P. Lebrun, S. Shukla, S. Bianco, F.L. Fabbri, S. Sarwar, A. Zallo, R. Culbertson, R.W. Gardner, R. Greene, J. Wiss, B.G. Cheon, J.S. Kang, K.Y. Kim, G. Alimonti, G. Bellini, B. Caccianiga, L. Cinquini, M. DiCorato, M. Giammarchi, P. Inzani, F. Leveraro, S. Malvezzi, D. Menasce, E. Meroni, L. Moroni, D. Pedrini, L. Perasso, A. Sala, S. Sala, D. Torretta, M. Vittone, F. Davenport, J.F. Filasetta, D. Buchholz, D. Claes, B. Gobbi, B. O'Reilly, J.M. Bishop, N.M. Cason, C.J. Kennedy, G.N. Kim, T.F. Lin, D.L. Puseljic, R.C. Ruchti, W.D. Shephard, J.A. Swiatek, Z.Y. Wu, V. Arena, G. Boca, C. Castoldi, R. Diaferia, G. Gianini, S.P. Ratti, C. Riccardi, P. Vitulo, A. Lopez, J.R. Wilson, F. Davenport, J.F. Filasetta, G.R. Blackett, M. Pisharody, T. Handler, P.D. Sheldon, Fermilab-Pub-94/049-E and Physics Letters **B328**, 184
- 51) "Analysis of Three  $D \rightarrow K\pi\pi$  Dalitz Plots", P.L. Frabetti, G.P. Grim, V.S. Paolone, P.M. Yager, H.W.K. Cheung, J.P. Cumalat, C. Dallapiccola, J.F. Ginkel, S.V. Greene, W.E. Johns, M.S. Nehring, J.N. Butler, S. Cihangir, I. Gaines, P.H. Garbincius, L. Garren, S. Gourlay, D.J. Harding, P. Kasper, A. Kreymer, P. Lebrun, S. Shukla, S. Bianco, F.L. Fabbri, S. Sarwar, A. Zallo, R. Culbertson, R.W. Gardner, R. Greene, J. Wiss, B.G. Cheon, J.S. Kang, K.Y. Kim, G. Alimonti, G. Bellini, B. Caccianiga, L. Cinquini, M. DiCorato, M. Giammarchi, P. Inzani, F. Leveraro, S. Malvezzi, D. Menasce, E. Meroni, L. Moroni, D. Pedrini, L. Perasso, A. Sala, S. Sala, D. Torretta, M. Vittone, F. Davenport, J.F. Filasetta, D. Buchholz, D. Claes, B. Gobbi, B. O'Reilly, J.M. Bishop, N.M. Cason, C.J. Kennedy, G.N. Kim, T.F. Lin, D.L. Puseljic, R.C. Ruchti, W.D. Shephard, J.A. Swiatek, Z.Y. Wu, V. Arena, G. Boca, C. Castoldi, R. Diaferia, G. Gianini, S.P. Ratti, C. Riccardi, P. Vitulo, A. Lopez, J.R. Wilson, F. Davenport, J.F. Filasetta, G.R. Blackett, M. Pisharody, T. Handler, P.D. Sheldon, Fermilab-Pub-94/076-E and Physics Letters **B331**, 217
- 52) "Search for CP Violation in Charm Meson Decay", P.L. Frabetti, G.P. Grim, V.S. Paolone, P.M. Yager, H.W.K. Cheung, J.P. Cumalat, C. Dallapiccola, J.F. Ginkel, S.V. Greene, W.E. Johns, M.S. Nehring, J.N. Butler, S. Cihangir, I. Gaines, P.H. Garbincius, L. Garren, S. Gourlay, D.J. Harding, P. Kasper, A. Kreymer, P. Lebrun, S. Shukla, S. Bianco, F.L. Fabbri, S. Sarwar, A. Zallo, R. Culbertson, R.W. Gardner, R. Greene,

J. Wiss, B.G. Cheon, J.S. Kang, K.Y. Kim, G. Alimonti, G. Bellini, B. Caccianiga, L. Cinquini, M. DiCorato, M. Giannarchi, P. Inzani, F. Leveraro, S. Malvezzi, D. Menasce, E. Meroni, L. Moroni, D. Pedrini, L. Perasso, A. Sala, S. Sala, D. Torretta, M. Vittone, F. Davenport, J.F. Filasetta, D. Buchholz, D. Claes, B. Gobbi, B. O'Reilly, J.M. Bishop, N.M. Cason, C.J. Kennedy, G.N. Kim, T.F. Lin, D.L. Puseljic, R.C. Ruchti, W.D. Shephard, J.A. Swiatek, Z.Y. Wu, V. Arena, G. Boca, C. Castoldi, R. Diaferia, G. Gianini, S.P. Ratti, C. Riccardi, P. Vitulo, A. Lopez, J.R. Wilson, F. Davenport, J.F. Filasetta, G.R. Blackett, M. Pisharody, T. Handler, P.D. Sheldon, Fermilab-Pub-94/071-E and published Physics Rev. D50, 2953 (1994)

53) "FIRST OBSERVATION OF THE  $\Sigma^-\pi^+\pi^+$  DECAY MODE OF THE  $\Lambda_c$  BARYON AND ITS BRANCHING RATIO RELATIVE TO THE  $\Sigma^+\pi^+\pi^-$  MODE", P.L. Frabetti, G.P. Grim, V.S. Paolone, P.M. Yager, H.W.K. Cheung, J.P. Cumalat, C. Dallapiccola, J.F. Ginkel, S.V. Greene, W.E. Johns, M.S. Nehring, J.N. Butler, S. Cihangir, I. Gaines, P.H. Garbincius, L. Garren, S. Gourlay, D.J. Harding, P. Kasper, A. Kreymer, P. Lebrun, S. Shukla, S. Bianco, F.L. Fabbri, S. Sarwar, A. Zallo, R. Culbertson, R.W. Gardner, R. Greene, J. Wiss, B.G. Cheon, J.S. Kang, K.Y. Kim, G. Alimonti, G. Bellini, B. Caccianiga, L. Cinquini, M. DiCorato, M. Giannarchi, P. Inzani, F. Leveraro, S. Malvezzi, D. Menasce, E. Meroni, L. Moroni, D. Pedrini, L. Perasso, A. Sala, S. Sala, D. Torretta, M. Vittone, F. Davenport, J.F. Filasetta, D. Buchholz, D. Claes, B. Gobbi, B. O'Reilly, J.M. Bishop, N.M. Cason, C.J. Kennedy, G.N. Kim, T.F. Lin, D.L. Puseljic, R.C. Ruchti, W.D. Shephard, J.A. Swiatek, Z.Y. Wu, V. Arena, G. Boca, C. Castoldi, R. Diaferia, G. Gianini, S.P. Ratti, C. Riccardi, P. Vitulo, A. Lopez, J.R. Wilson, F. Davenport, J.F. Filasetta, G.R. Blackett, M. Pisharody, T. Handler, P.D. Sheldon, Fermilab-Pub-94/079-E and published Phys. Lett. **B328** (1994) 193

54) "Observation and Mass Measurement of  $\Omega_c^0 \rightarrow \Sigma^+ K^- K^- \pi^+$ ", P.L. Frabetti, G.P. Grim, V.S. Paolone, P.M. Yager, C.W. Bogart, H.W.K. Cheung, S. Culy, J.P. Cumalat, C. Dallapiccola, J.F. Ginkel, S.V. Greene, W.E. Johns, M.S. Nehring, J.N. Butler, S. Cihangir, I. Gaines, P.H. Garbincius, L. Garren, S. Gourlay, D.J. Harding, P. Kasper, A. Kreymer, P. Lebrun, H. Mendez, S. Shukla, S. Bianco, F.L. Fabbri, S. Sarwar, A. Spallone, A. Zallo, R. Culbertson, R.W. Gardner, R. Greene, G. Jaross, K. Lingel, J. Wiss, B.G. Cheon, J.S. Kang, K.Y. Kim, G. Alimonti, G. Bellini, B. Caccianiga, L. Cinquini, M. DiCorato, M. Giannarchi, P. Inzani, F. Leveraro, S. Malvezzi, D. Menasce, E. Meroni, L. Moroni, D. Pedrini, L. Perasso, A. Sala, S. Sala, D. Torretta, M. Vittone, F. Davenport, J.F. Filasetta, D. Buchholz, D. Claes, B. Gobbi, B. O'Reilly, S. Park, R. Yoshida, J.M. Bishop, J.K. Busenitz, N.M. Cason, J.D. Cunningham, C.J. Kennedy, G.N. Kim, T.F. Lin, E.J. Mannel, R.J. Mountain, D.L. Puseljic, R.C. Ruchti, W.D. Shephard, J.A. Swiatek, Z.Y. Wu, M.E. Zanabria, V. Arena, G. Boca, C. Castoldi, R. Diaferia, G. Gianini, S.P. Ratti, C. Riccardi, L. Viola, P. Vitulo, A. Lopez, J.R. Wilson, G.R. Blackett, M. Pisharody, T. Handler, P.D. Sheldon, Fermilab Preprint 94/248 and published in Physics Letters **B338**, 106 (1994)

55) "Branching Ratios of the decays  $D^0 \rightarrow 2K_s^0$  and  $D^0 \rightarrow K_s^0 K_s^0 K_s^0$ ", P.L. Frabetti, H.W.K. Cheung, J.P. Cumalat, C. Dallapiccola, J.F. Ginkel, S.V. Greene, W.E. Johns, M.S. Nehring, J.N. Butler, S. Cihangir, I. Gaines, L. Garren, P.H. Garbincius, S.A. Gourlay, D.J. Harding, P. Kasper, A. Kreymer, P. Lebrun, S. Shukla, S. Bianco, F.L. Fabbri, S. Sarwar, A. Zallo, R. Culbertson, R.W. Gardner, R. Greene, J. Wiss, G. Alimonti, G. Bellini, B. Caccianiga, L. Cinquini, M. Di Corato, M. Giannarchi, P. Inzani, F. Leveraro, S. Malvezzi, D. Menasce, E. Meroni, L. Moroni, D. Pedrini, L. Perasso, A. Sala, S. Sala, D. Torretta, M. Vittone, D. Buchholz, D. Claes, B. Gobbi, B. O'Reilly,

J.M. Bishop, N.M. Cason, C.J. Kennedy, G.N. Kim, T.F. Lin, D.L. Puseljic, R.C. Ruchti, W.D. Shephard, J.A. Swiatek, Z.Y. Wu, V. Arena, G. Boca, C. Castoldi, G. Gianini, S.P. Ratti, C. Riccardi, L. Viola, P. Vitulo, A. Lopez, G.P. Grim, V.S. Paolone, P.M. Yager, J.R. Wilson, P.D. Sheldon, F. Davenport, J.F. Filasetta, G.R. Blackett, M. Pisharody, T. Handler, B.G. Cheon, J.S. Kang, K.Y. Kim, Fermilab Preprint 94/272 and Physics Letters **B**340, 254 (1994)

56) "Charm Meson Decay into the Final States  $K_s^0 K^+$  and  $K_s^0 K^{*+}$ ", P.L. Frabetti, G.P. Grim, V.S. Paolone, P.M. Yager, H.W.K. Cheung, J.P. Cumalat, C. Dallapiccola, J.F. Ginkel, S.V. Greene, W.E. Johns, M.S. Nehring, J.N. Butler, S. Cihangir, I. Gaines, P.H. Garbincius, L. Garren, S. Gourlay, D.J. Harding, P. Kasper, A. Kreymer, P. Lebrun, S. Shukla, S. Bianco, F.L. Fabbri, S. Sarwar, A. Zallo, R. Culbertson, R.W. Gardner, R. Greene, J. Wiss, B.G. Cheon, J.S. Kang, K.Y. Kim, G. Alimonti, G. Bellini, B. Caccianiga, L. Cinquini, M. DiCorato, M. Giannotti, P. Inzani, F. Leveraro, S. Malvezzi, D. Menasce, E. Meroni, L. Moroni, D. Pedrini, L. Perasso, A. Sala, S. Sala, D. Torretta, M. Vittone, F. Davenport, J.F. Filasetta, D. Buchholz, D. Claes, B. Gobbi, B. O'Reilly, J.M. Bishop, N.M. Cason, C.J. Kennedy, G.N. Kim, T.F. Lin, D.L. Puseljic, R.C. Ruchti, W.D. Shephard, J.A. Swiatek, Z.Y. Wu, V. Arena, G. Boca, C. Castoldi, R. Diaferia, G. Gianini, S.P. Ratti, C. Riccardi, P. Vitulo, A. Lopez, J.R. Wilson, F. Davenport, J.F. Filasetta, G.R. Blackett, M. Pisharody, T. Handler, P.D. Sheldon, Fermilab-Pub-94/417-E and published in Phys. Lett. **B**346, 199(1995)

57) "Analysis of the  $D^+$ ,  $D_s^+ \rightarrow K^+ K^- \pi^+$  Dalitz Plots", P.L. Frabetti, G.P. Grim, V.S. Paolone, P.M. Yager, H.W.K. Cheung, J.P. Cumalat, C. Dallapiccola, J.F. Ginkel, S.V. Greene, W.E. Johns, M.S. Nehring, J.N. Butler, S. Cihangir, I. Gaines, P.H. Garbincius, L. Garren, S. Gourlay, D.J. Harding, P. Kasper, A. Kreymer, P. Lebrun, S. Shukla, S. Bianco, F.L. Fabbri, S. Sarwar, A. Zallo, R. Culbertson, R.W. Gardner, R. Greene, J. Wiss, B.G. Cheon, J.S. Kang, K.Y. Kim, G. Alimonti, G. Bellini, B. Caccianiga, L. Cinquini, M. DiCorato, M. Giannotti, P. Inzani, F. Leveraro, S. Malvezzi, D. Menasce, E. Meroni, L. Moroni, D. Pedrini, L. Perasso, A. Sala, S. Sala, D. Torretta, M. Vittone, F. Davenport, J.F. Filasetta, D. Buchholz, D. Claes, B. Gobbi, B. O'Reilly, J.M. Bishop, N.M. Cason, C.J. Kennedy, G.N. Kim, T.F. Lin, D.L. Puseljic, R.C. Ruchti, W.D. Shephard, J.A. Swiatek, Z.Y. Wu, V. Arena, G. Boca, C. Castoldi, R. Diaferia, G. Gianini, S.P. Ratti, C. Riccardi, P. Vitulo, A. Lopez, J.R. Wilson, F. Davenport, J.F. Filasetta, G.R. Blackett, M. Pisharody, T. Handler, P.D. Sheldon, Fermilab-Pub-95/032-E and published in Phys. Lett. **B**351, 591(1995)

58) "Study of charged four-body decays of the  $D^0$  meson", P.L. Frabetti, G.P. Grim, V.S. Paolone, P.M. Yager, H.W.K. Cheung, J.P. Cumalat, C. Dallapiccola, J.F. Ginkel, S.V. Greene, W.E. Johns, M.S. Nehring, J.N. Butler, S. Cihangir, I. Gaines, P.H. Garbincius, L. Garren, S. Gourlay, D.J. Harding, P. Kasper, A. Kreymer, P. Lebrun, S. Shukla, S. Bianco, F.L. Fabbri, S. Sarwar, A. Zallo, R. Culbertson, R.W. Gardner, R. Greene, J. Wiss, B.G. Cheon, J.S. Kang, K.Y. Kim, G. Alimonti, G. Bellini, B. Caccianiga, L. Cinquini, M. DiCorato, M. Giannotti, P. Inzani, F. Leveraro, S. Malvezzi, D. Menasce, E. Meroni, L. Moroni, D. Pedrini, L. Perasso, A. Sala, S. Sala, D. Torretta, M. Vittone, F. Davenport, J.F. Filasetta, D. Buchholz, D. Claes, B. Gobbi, B. O'Reilly, J.M. Bishop, N.M. Cason, C.J. Kennedy, G.N. Kim, T.F. Lin, D.L. Puseljic, R.C. Ruchti, W.D. Shephard, J.A. Swiatek, Z.Y. Wu, V. Arena, G. Boca, C. Castoldi, R. Diaferia, G. Gianini, S.P. Ratti, C. Riccardi, P. Vitulo, A. Lopez, J.R. Wilson, F. Davenport, J.F. Filasetta, G.R. Blackett, M. Pisharody, T. Handler, P.D. Sheldon, Fermilab-Pub-95/114-E and published in Phys. Lett. **B**354, 486(1995)

- 59) "First measurement of the lifetime of the  $\Omega_c^0$ ", P.L. Frabetti, H.W.K. Cheung, J.P. Cumalat, C. Dallapiccola, J.F. Ginkel, S.V. Greene, W.E. Johns, M.S. Nehring, J.N. Butler, S. Cihangir, I. Gaines, P.H. Garbincius, L. Garren, S. Gourlay, D.J. Harding, P. Kasper, A. Kreymer, P. Lebrun, S. Shukla, M. Vittone, S. Bianco, F.L. Fabbri, S. Sarwar, A. Zallo, R. Culbertson, R.W. Gardner, R. Greene, J. Wiss, G. Alimonti, G. Bellini, B. Caccianiga, L. Cinquini, M. DiCorato, M. Giannarchi, P. Inzani, F. Leveraro, S. Malvezzi, D. Menasce, E. Meroni, L. Moroni, D. Pedrini, L. Perasso, A. Sala, S. Sala, D. Torretta, F. Davenport, J.F. Filasetta, D. Buchholz, D. Claes, B. Gobbi, B. O'Reilly, J.M. Bishop, N.M. Cason, C.J. Kennedy, G.N. Kim, T.F. Lin, D.L. Puseljic, R.C. Ruchti, W.D. Shephard, J.A. Swiatek, Z.Y. Wu, V. Arena, G. Boca, C. Castoldi, R. Diaferia, G. Gianini, S.P. Ratti, C. Riccardi, L. Viola, P. Vitulo, A. Lopez, G.P. Grim, V.S. Paolone, P.M. Yager, J.R. Wilson, P.D. Sheldon, F. Davenport, J.F. Filasetta, G.R. Blackett, K. Danyo, M. Pisharody, T. Handler, B.G. Cheon, J.S. Kang, K.Y. Kim, Fermilab-Pub-95/163-E and published in Phys. Lett. **B357**, 678(1995)
- 60) "Doubly and singly Cabibbo suppressed charm decays into the  $K^+\pi^-\pi^+$  final state", P.L. Frabetti, H.W.K. Cheung, J.P. Cumalat, C. Dallapiccola, J.F. Ginkel, S.V. Greene, W.E. Johns, M.S. Nehring, J.N. Butler, S. Cihangir, I. Gaines, P.H. Garbincius, L. Garren, S. Gourlay, D.J. Harding, P. Kasper, A. Kreymer, P. Lebrun, S. Shukla, M. Vittone, S. Bianco, F.L. Fabbri, S. Sarwar, A. Zallo, R. Culbertson, R.W. Gardner, R. Greene, J. Wiss, G. Alimonti, G. Bellini, B. Caccianiga, L. Cinquini, M. DiCorato, M. Giannarchi, P. Inzani, F. Leveraro, S. Malvezzi, D. Menasce, E. Meroni, L. Moroni, D. Pedrini, L. Perasso, A. Sala, S. Sala, D. Torretta, F. Davenport, J.F. Filasetta, D. Buchholz, D. Claes, B. Gobbi, B. O'Reilly, J.M. Bishop, N.M. Cason, C.J. Kennedy, G.N. Kim, T.F. Lin, D.L. Puseljic, R.C. Ruchti, W.D. Shephard, J.A. Swiatek, Z.Y. Wu, V. Arena, G. Boca, C. Castoldi, R. Diaferia, G. Gianini, S.P. Ratti, C. Riccardi, L. Viola, P. Vitulo, A. Lopez, G.P. Grim, V.S. Paolone, P.M. Yager, J.R. Wilson, P.D. Sheldon, F. Davenport, J.F. Filasetta, G.R. Blackett, M. Pisharody, T. Handler, B.G. Cheon, J.S. Kang, K.Y. Kim, Fermilab-Pub-95/262-E and published in Phys. Lett. **B359**, 403(1995)
- 61) "Search for the Decay of  $D^+$  and  $D_s^+$  Mesons to Three Charged Kaons", P.L. Frabetti, H.W.K. Cheung, J.P. Cumalat, C. Dallapiccola, J.F. Ginkel, S.V. Greene, W.E. Johns, M.S. Nehring, J.N. Butler, S. Cihangir, I. Gaines, P.H. Garbincius, L. Garren, S. Gourlay, D.J. Harding, P. Kasper, A. Kreymer, P. Lebrun, S. Shukla, M. Vittone, S. Bianco, F.L. Fabbri, S. Sarwar, A. Zallo, R. Culbertson, R.W. Gardner, R. Greene, J. Wiss, G. Alimonti, G. Bellini, B. Caccianiga, L. Cinquini, M. DiCorato, M. Giannarchi, P. Inzani, F. Leveraro, S. Malvezzi, D. Menasce, E. Meroni, L. Moroni, D. Pedrini, L. Perasso, A. Sala, S. Sala, D. Torretta, F. Davenport, J.F. Filasetta, D. Buchholz, D. Claes, B. Gobbi, B. O'Reilly, J.M. Bishop, N.M. Cason, C.J. Kennedy, G.N. Kim, T.F. Lin, D.L. Puseljic, R.C. Ruchti, W.D. Shephard, J.A. Swiatek, Z.Y. Wu, V. Arena, G. Boca, C. Castoldi, R. Diaferia, G. Gianini, S.P. Ratti, C. Riccardi, L. Viola, P. Vitulo, A. Lopez, G.P. Grim, V.S. Paolone, P.M. Yager, J.R. Wilson, P.D. Sheldon, F. Davenport, J.F. Filasetta, G.R. Blackett, M. Pisharody, T. Handler, B.G. Cheon, J.S. Kang, K.Y. Kim, Fermilab-Pub-95/318-E and published in Phys. Lett. **B363**, 259(1995)
- 62) "Analysis of the Decay Mode  $D^0 \rightarrow K^-\mu^+\nu_\mu$ ", P.L. Frabetti, H.W.K. Cheung, J.P. Cumalat, C. Dallapiccola, J.F. Ginkel, S.V. Greene, W.E. Johns, M.S. Nehring, J.N. Butler, S. Cihangir, I. Gaines, P.H. Garbincius, L. Garren, S. Gourlay, D.J. Harding, P. Kasper, A. Kreymer, P. Lebrun, S. Shukla, M. Vittone, S. Bianco, F.L. Fabbri, S. Sarwar, A. Zallo, R. Culbertson, R.W. Gardner, R. Greene, J. Wiss, G. Alimonti,

G. Bellini, B. Caccianiga, L. Cinquini, M. DiCorato, M. Giannarchi, P. Inzani, F. Leveraro, S. Malvezzi, D. Menasce, E. Meroni, L. Moroni, D. Pedrini, L. Perasso, A. Sala, S. Sala, D. Torretta, F. Davenport, J.F. Filasetta, D. Buchholz, D. Claes, B. Gobbi, B. O'Reilly, J.M. Bishop, N.M. Cason, C.J. Kennedy, G.N. Kim, T.F. Lin, D.L. Puseljic, R.C. Ruchti, W.D. Shephard, J.A. Swiatek, Z.Y. Wu, V. Arena, G. Boca, C. Castoldi, R. Diaferia, G. Gianini, S.P. Ratti, C. Riccardi, L. Viola, P. Vitulo, A. Lopez, G.P. Grim, V.S. Paolone, P.M. Yager, J.R. Wilson, P.D. Sheldon, F. Davenport, J.F. Filasetta, G.R. Blackett, M. Pisharody, T. Handler, B.G. Cheon, J.S. Kang, K.Y. Kim, Fermilab-Pub-95/338-E and published in Phys. Lett. **B364**, 127(1995)

63) "Measurement of Photoproduction Cross Sections for Charmed Baryons Decaying to  $\Lambda_c^+$ ", P.L. Frabetti, H.W.K. Cheung, J.P. Cumalat, C. Dallapiccola, J.F. Ginkel, S.V. Greene, W.E. Johns, M.S. Nehring, J.N. Butler, S. Cihangir, I. Gaines, P.H. Garbincius, L. Garren, S. Gourlay, D.J. Harding, P. Kasper, A. Kreymer, P. Lebrun, S. Shukla, M. Vittone, S. Bianco, F.L. Fabbri, S. Sarwar, A. Zallo, R. Culbertson, R.W. Gardner, R. Greene, J. Wiss, G. Alimonti, G. Bellini, B. Caccianiga, L. Cinquini, M. DiCorato, M. Giannarchi, P. Inzani, F. Leveraro, S. Malvezzi, D. Menasce, E. Meroni, L. Moroni, D. Pedrini, L. Perasso, A. Sala, S. Sala, D. Torretta, F. Davenport, J.F. Filasetta, D. Buchholz, D. Claes, B. Gobbi, B. O'Reilly, J.M. Bishop, N.M. Cason, C.J. Kennedy, G.N. Kim, T.F. Lin, D.L. Puseljic, R.C. Ruchti, W.D. Shephard, J.A. Swiatek, Z.Y. Wu, V. Arena, G. Boca, C. Castoldi, R. Diaferia, G. Gianini, S.P. Ratti, C. Riccardi, L. Viola, P. Vitulo, A. Lopez, G.P. Grim, V.S. Paolone, P.M. Yager, J.R. Wilson, P.D. Sheldon, F. Davenport, J.F. Filasetta, G.R. Blackett, M. Pisharody, T. Handler, B.G. Cheon, J.S. Kang, K.Y. Kim, Fermilab-Pub-95/319-E and published in Phys. Lett. **B365**, 461(1996)

64) "Charm-Anticharm Asymmetries in High Energy Photoproduction", P.L. Frabetti, H.W.K. Cheung, J.P. Cumalat, C. Dallapiccola, J.F. Ginkel, S.V. Greene, W.E. Johns, M.S. Nehring, J.N. Butler, S. Cihangir, I. Gaines, P.H. Garbincius, L. Garren, S. Gourlay, D.J. Harding, P. Kasper, A. Kreymer, P. Lebrun, S. Shukla, M. Vittone, S. Bianco, F.L. Fabbri, S. Sarwar, A. Zallo, R. Culbertson, R.W. Gardner, R. Greene, J. Wiss, G. Alimonti, G. Bellini, B. Caccianiga, L. Cinquini, M. DiCorato, M. Giannarchi, P. Inzani, F. Leveraro, S. Malvezzi, D. Menasce, E. Meroni, L. Moroni, D. Pedrini, L. Perasso, A. Sala, S. Sala, D. Torretta, F. Davenport, J.F. Filasetta, D. Buchholz, D. Claes, B. Gobbi, B. O'Reilly, J.M. Bishop, N.M. Cason, C.J. Kennedy, G.N. Kim, T.F. Lin, D.L. Puseljic, R.C. Ruchti, W.D. Shephard, J.A. Swiatek, Z.Y. Wu, V. Arena, G. Boca, C. Castoldi, R. Diaferia, G. Gianini, S.P. Ratti, C. Riccardi, L. Viola, P. Vitulo, A. Lopez, G.P. Grim, V.S. Paolone, P.M. Yager, J.R. Wilson, P.D. Sheldon, F. Davenport, J.F. Filasetta, G.R. Blackett, K. Danyo, M. Pisharody, T. Handler, B.G. Cheon, J.S. Kang, K.Y. Kim, Fermilab-Pub-95/410-E and published in Phys. Lett. **B370**, 222(1996)

65) "Analysis of the Cabibbo Suppressed Decay  $D^+ \rightarrow \pi^- \ell^+ \nu$ ", P.L. Frabetti, H.W.K. Cheung, J.P. Cumalat, C. Dallapiccola, J.F. Ginkel, S.V. Greene, W.E. Johns, M.S. Nehring, J.N. Butler, S. Cihangir, I. Gaines, P.H. Garbincius, L. Garren, S. Gourlay, D.J. Harding, P. Kasper, A. Kreymer, P. Lebrun, S. Shukla, M. Vittone, S. Bianco, F.L. Fabbri, S. Sarwar, A. Zallo, R. Culbertson, R.W. Gardner, R. Greene, J. Wiss, G. Alimonti, G. Bellini, B. Caccianiga, L. Cinquini, M. DiCorato, M. Giannarchi, P. Inzani, F. Leveraro, S. Malvezzi, D. Menasce, E. Meroni, L. Moroni, D. Pedrini, L. Perasso, A. Sala, S. Sala, D. Torretta, F. Davenport, J.F. Filasetta, D. Buchholz, D. Claes, B. Gobbi, B. O'Reilly, J.M. Bishop, N.M. Cason, C.J. Kennedy, G.N. Kim, T.F. Lin, D.L. Puseljic, R.C. Ruchti, W.D. Shephard, J.A. Swiatek, Z.Y. Wu, V. Arena, G. Boca, C. Castoldi, R. Diaferia, G. Gianini, S.P. Ratti, C. Riccardi, L. Viola, P. Vitulo, A. Lopez, G.P. Grim,

V.S. Paolone, P.M. Yager, J.R. Wilson, P.D. Sheldon, F. Davenport, J.F. Filasetta, G.R. Blackett, M. Pisharody, T. Handler, B.G. Cheon, J.S. Kang, K.Y. Kim, , published in Physics Letters **B382** (1996) 312

66) "Observation of the vector meson Cabibbo Suppresed Decay  $D^+ \rightarrow \rho^0 \mu^+ \nu$ ", P.L. Frabetti, H.W.K. Cheung, J.P. Cumalat, C.Dallapiccola, J.F. Ginkel, S.V. Greene, W.E. Johns, M.S. Nehring, J.N. Butler, S. Cihangir, I. Gaines, P.H. Garbincius, L. Garren, S. Gourlay, D.J. Harding, P. Kasper, A. Kreymer, P. Lebrun, S. Shukla, M. Vittone, S. Bianco, F.L. Fabbri, S. Sarwar, A. Zallo, R. Culbertson, R.W. Gardner, R. Greene, J. Wiss, G. Alimonti, G. Bellini, B. Caccianiga, L. Cinquini, M. DiCorato, M. Giannmarchi, P. Inzani, F. Leveraro, S. Malvezzi, D. Menasce, E. Meroni, L. Moroni, D. Pedrini, L. Perasso, A. Sala, S. Sala, D. Torretta, F. Davenport, J.F. Filasetta, D. Buchholz, D. Claes, B. Gobbi, B. O'Reilly, J.M. Bishop, N.M. Cason, C.J. Kennedy, G.N. Kim, T.F. Lin, D.L. Puseljic, R.C. Ruchti, W.D. Shephard, J.A. Swiatek, Z.Y. Wu, V. Arena, G. Boca, C. Castoldi, R. Diaferia, G. Gianini, S.P. Ratti, C. Riccardi, L. Viola, P. Vitulo, A. Lopez, G.P. Grim, V.S. Paolone, P.M. Yager, J.R. Wilson, P.D. Sheldon, F. Davenport, J.F. Filasetta, G.R. Blackett, M. Pisharody, T. Handler, B.G. Cheon, J.S. Kang, K.Y. Kim, , published in Physics Letters **B391** (1997) 235

67) "Search for Rare and Forbidden Semileptonic Decays of the Charmed Meson  $D^+$ ", P.L. Frabetti, H.W.K. Cheung, J.P. Cumalat, C. Dallapiccola, J.F. Ginkel, S.V. Greene, W.E. Johns, M.S. Nehring, J.N. Butler, S. Cihangir, I. Gaines, P.H. Garbincius, L. Garren, S. Gourlay, D.J. Harding, P. Kasper, A. Kreymer, P. Lebrun, S. Shukla, M. Vittone, S. Bianco, F.L. Fabbri, S. Sarwar, A. Zallo, R. Culbertson, R.W. Gardner, R. Greene, J. Wiss, G. Alimonti, G. Bellini, B. Caccianiga, L. Cinquini, M. DiCorato, M. Giannmarchi, P. Inzani, F. Leveraro, S. Malvezzi, D. Menasce, E. Meroni, L. Moroni, D. Pedrini, L. Perasso, A. Sala, S. Sala, D. Torretta, F. Davenport, J.F. Filasetta, D. Buchholz, D. Claes, B. Gobbi, B. O'Reilly, J.M. Bishop, N.M. Cason, C.J. Kennedy, G.N. Kim, T.F. Lin, D.L. Puseljic, R.C. Ruchti, W.D. Shephard, J.A. Swiatek, Z.Y. Wu, V. Arena, G. Boca, C. Castoldi, R. Diaferia, G. Gianini, S.P. Ratti, C. Riccardi, L. Viola, P. Vitulo, A. Lopez, G.P. Grim, V.S. Paolone, P.M. Yager, J.R. Wilson, P.D. Sheldon, F. Davenport, J.F. Filasetta, G.R. Blackett, M. Pisharody, T. Handler, B.G. Cheon, J.S. Kang, K.Y. Kim, , published Physics Letters **B401**, p131-138, 1997

68) "Five body decays of the  $D^+$  and  $D_s^+$ ", P.L. Frabetti, H.W.K. Cheung, J.P. Cumalat, C. Dallapiccola, J.F. Ginkel, S.V. Greene, W.E. Johns, M.S. Nehring, J.N. Butler, S. Cihangir, I. Gaines, P.H. Garbincius, L. Garren, S. Gourlay, D.J. Harding, P. Kasper, A. Kreymer, P. Lebrun, S. Shukla, M. Vittone, S. Bianco, F.L. Fabbri, S. Sarwar, A. Zallo, R. Culbertson, R.W. Gardner, R. Greene, J. Wiss, G. Alimonti, G. Bellini, B. Caccianiga, L. Cinquini, M. DiCorato, M. Giannmarchi, P. Inzani, F. Leveraro, S. Malvezzi, D. Menasce, E. Meroni, L. Moroni, D. Pedrini, L. Perasso, A. Sala, S. Sala, D. Torretta, F. Davenport, J.F. Filasetta, D. Buchholz, D. Claes, B. Gobbi, B. O'Reilly, J.M. Bishop, N.M. Cason, C.J. Kennedy, G.N. Kim, T.F. Lin, D.L. Puseljic, R.C. Ruchti, W.D. Shephard, J.A. Swiatek, Z.Y. Wu, V. Arena, G. Boca, C. Castoldi, R. Diaferia, G. Gianini, S.P. Ratti, C. Riccardi, L. Viola, P. Vitulo, A. Lopez, G.P. Grim, V.S. Paolone, P.M. Yager, J.R. Wilson, P.D. Sheldon, F. Davenport, J.F. Filasetta, G.R. Blackett, M. Pisharody, T. Handler, B.G. Cheon, J.S. Kang, K.Y. Kim, published in Physics Letters **B398**, p239-244, 1997

69) "Three Pi Dalitz Analysis", P.L. Frabetti, H.W.K. Cheung, J.P. Cumalat, C. Dallapiccola, J.F. Ginkel, S.V. Greene, W.E. Johns, M.S. Nehring, J.N. Butler, S. Cihangir,

I. Gaines, P.H. Garbincius, L. Garren, S. Gourlay, D.J. Harding, P. Kasper, A. Kreymer, P. Lebrun, S. Shukla, M. Vittone, S. Bianco, F.L. Fabbri, S. Sarwar, A. Zallo, R. Culbertson, R.W. Gardner, R. Greene, J. Wiss, G. Alimonti, G. Bellini, B. Caccianiga, L. Cinquini, M. DiCorato, M. Giannarchi, P. Inzani, F. Leveraro, S. Malvezzi, D. Menasce, E. Meroni, L. Moroni, D. Pedrini, L. Perasso, A. Sala, S. Sala, D. Torretta, F. Davenport, J.F. Filasetta, D. Buchholz, D. Claes, B. Gobbi, B. O'Reilly, J.M. Bishop, N.M. Cason, C.J. Kennedy, G.N. Kim, T.F. Lin, D.L. Puseljic, R.C. Ruchti, W.D. Shephard, J.A. Swiatek, Z.Y. Wu, V. Arena, G. Boca, C. Castoldi, R. Diaferia, G. Gianini, S.P. Ratti, C. Riccardi, L. Viola, P. Vitulo, A. Lopez, G.P. Grim, V.S. Paolone, P.M. Yager, J.R. Wilson, P.D. Sheldon, F. Davenport, J.F. Filasetta, G.R. Blackett, M. Pisharody, T. Handler, B.G. Cheon, J.S. Kang, K.Y. Kim, published in Physics Letters B407, p79-91, 1997

70) "NEW RESULTS ON HEAVY FLAVOR PHOTOPRODUCTION FROM THE E687 EXPERIMENT AT FNAL", P.L. Frabetti, H.W.K. Cheung, J.P. Cumalat, C. Dallapiccola, J.F. Ginkel, S.V. Greene, W.E. Johns, M.S. Nehring, J.N. Butler, S. Cihangir, I. Gaines, P.H. Garbincius, L. Garren, S. Gourlay, D.J. Harding, P. Kasper, A. Kreymer, P. Lebrun, S. Shukla, M. Vittone, S. Bianco, F.L. Fabbri, S. Sarwar, A. Zallo, R. Culbertson, R.W. Gardner, R. Greene, J. Wiss, G. Alimonti, G. Bellini, B. Caccianiga, L. Cinquini, M. DiCorato, M. Giannarchi, P. Inzani, F. Leveraro, S. Malvezzi, D. Menasce, E. Meroni, L. Moroni, D. Pedrini, L. Perasso, A. Sala, S. Sala, D. Torretta, F. Davenport, J.F. Filasetta, D. Buchholz, D. Claes, B. Gobbi, B. O'Reilly, J.M. Bishop, N.M. Cason, C.J. Kennedy, G.N. Kim, T.F. Lin, D.L. Puseljic, R.C. Ruchti, W.D. Shephard, J.A. Swiatek, Z.Y. Wu, V. Arena, G. Boca, C. Castoldi, R. Diaferia, G. Gianini, S.P. Ratti, C. Riccardi, L. Viola, P. Vitulo, A. Lopez, G.P. Grim, V.S. Paolone, P.M. Yager, J.R. Wilson, P.D. Sheldon, F. Davenport, J.F. Filasetta, G.R. Blackett, M. Pisharody, T. Handler, B.G. Cheon, J.S. Kang, K.Y. Kim, Nuovo Cim. 107A (1994) 2025-2043.

71) "A New Measurement of the Lifetime of the  $\Xi_c^+$ ", P.L. Frabetti, H.W.K. Cheung, J.P. Cumalat, C. Dallapiccola, J.F. Ginkel, S.V. Greene, W.E. Johns, M.S. Nehring, J.N. Butler, S. Cihangir, I. Gaines, P.H. Garbincius, L. Garren, S. Gourlay, D.J. Harding, P. Kasper, A. Kreymer, P. Lebrun, S. Shukla, M. Vittone, S. Bianco, F.L. Fabbri, S. Sarwar, A. Zallo, R. Culbertson, R.W. Gardner, R. Greene, J. Wiss, G. Alimonti, G. Bellini, B. Caccianiga, L. Cinquini, M. DiCorato, M. Giannarchi, P. Inzani, F. Leveraro, S. Malvezzi, D. Menasce, E. Meroni, L. Moroni, D. Pedrini, L. Perasso, A. Sala, S. Sala, D. Torretta, F. Davenport, J.F. Filasetta, D. Buchholz, D. Claes, B. Gobbi, B. O'Reilly, J.M. Bishop, N.M. Cason, C.J. Kennedy, G.N. Kim, T.F. Lin, D.L. Puseljic, R.C. Ruchti, W.D. Shephard, J.A. Swiatek, Z.Y. Wu, V. Arena, G. Boca, C. Castoldi, R. Diaferia, G. Gianini, S.P. Ratti, C. Riccardi, L. Viola, P. Vitulo, A. Lopez, G.P. Grim, V.S. Paolone, P.M. Yager, J.R. Wilson, P.D. Sheldon, F. Davenport, J.F. Filasetta, G.R. Blackett, M. Pisharody, T. Handler, B.G. Cheon, J.S. Kang, K.Y. Kim, Physics Letters B427, 1998, p.211.

72) "Observation of a Narrow State Decaying to  $\Xi_c^0\pi^+$ ", P.L. Frabetti, H.W.K. Cheung, J.P. Cumalat, C. Dallapiccola, J.F. Ginkel, S.V. Greene, W.E. Johns, M.S. Nehring, J.N. Butler, S. Cihangir, I. Gaines, P.H. Garbincius, L. Garren, S. Gourlay, D.J. Harding, P. Kasper, A. Kreymer, P. Lebrun, S. Shukla, M. Vittone, S. Bianco, F.L. Fabbri, S. Sarwar, A. Zallo, R. Culbertson, R.W. Gardner, R. Greene, J. Wiss, G. Alimonti, G. Bellini, B. Caccianiga, L. Cinquini, M. DiCorato, M. Giannarchi, P. Inzani, F. Leveraro, S. Malvezzi, D. Menasce, E. Meroni, L. Moroni, D. Pedrini, L. Perasso, A. Sala, S. Sala, D. Torretta, F. Davenport, J.F. Filasetta, D. Buchholz, D. Claes, B. Gobbi, B. O'Reilly, J.M. Bishop, N.M. Cason, C.J. Kennedy, G.N. Kim, T.F. Lin, D.L. Puseljic, R.C. Ruchti,

W.D. Shephard, J.A. Swiatek, Z.Y. Wu, V. Arena, G. Boca, C. Castoldi, R. Diaferia, G. Giannini, S.P. Ratti, C. Riccardi, L. Viola, P. Vitulo, A. Lopez, G.P. Grim, V.S. Paolone, P.M. Yager, J.R. Wilson, P.D. Sheldon, F. Davenport, J.F. Filasetta, G.R. Blackett, M. Pisharody, T. Handler, B.G. Cheon, J.S. Kang, K.Y. Kim, Physics Letters B426(98)403.

73) "A Measurement of Lifetime Differences in the Neutral D-meson System", FOCUS Collaboration, Physics Letters B485(2000)62-70.

74) "Measurements of the  $\Sigma_c^0$  and  $\Sigma_c^{++}$  Mass Splittings", FOCUS Collaboration, Physics Letters B488(2000)218.

75) "Search for CP Violations in  $D^0$  and  $D^+$  Decays", FOCUS Collaboration, Physics Letters B491(2000)232.

76) "A Study of the Decay  $D^0 \rightarrow K^+ \pi^-$ ", FOCUS Collaboration, Phys. Rev. Lett. **86**, 2955 (2001).

77) "Measurement of Relative Branching Ratio  $\text{BR}(\Xi_c^+ \rightarrow p K^- \pi^+)/\text{BR}(\Xi_c^+ \rightarrow \Xi^- \pi^+ \pi^+)$ ", FOCUS Collaboration, Physics Letters B512(2001)277.

78) "A Measurement of the Branching Ratios of  $D^+$  and  $D_s^+$  Hadronic Decays to Four Body Final States Containing a  $K_s^0$ ", FOCUS Collaboration, Phys. Rev. Lett. **87**, 16 (2001).

79) "Evidence for a narrow dip structure at 1.9-GeV/c<sup>2</sup> in  $3\pi^+ 3\pi^-$  Diffractive Photoproduction", FOCUS Collaboration, Physics Letters B514(2001)240.

80) "Cerenkov Particle Identification in FOCUS", FOCUS Collaboration, Nuclear Instruments and Methods A484 (2002) 270-286.

81) "Search for CP Violation in the decays  $D^+ \rightarrow K_s^0 \pi^+$  and  $D^+ \rightarrow K_s^0 K^+$ ", FOCUS Collaboration, Phys. Rev. Lett. **88**, 416 (2002).

82) "Reconstruction of Vees, Kinks,  $\Xi^-$ 's, and  $\Omega^-$ 's in the FOCUS Spectrometer", FOCUS Collaboration, Nuclear Instruments and Methods A484 (2002) 174-193.

83) "A New Measurement of the  $\Xi_c^+$  Lifetime", FOCUS Collaboration, Phys. Letters B523 (2001) 53.

84) "Measurement of the Natural Widths of the  $\Sigma_c^0$  and  $\Sigma_c^{++}$  Baryons", FOCUS Collaboration, Phys. Letters B525 (2002) 205-210.

85) "A High Statistics Measurement of the  $\Lambda_c^+$  Lifetime", FOCUS Collaboration, Phys. Letters B525 (2002) 211.

86) "Evidence for Interference Phenomena in the decay  $D^+ \rightarrow K^- \pi^+ \mu^+ \nu$ ", FOCUS Collaboration, Phys. Letters B535 (2002) 43-51.

87) "New Measurements of the  $D^0$  and  $D^+$  Lifetimes", FOCUS Collaboration, Phys. Letters B537 (2002) 192.

88) "The Target Silicon Detector for the FOCUS Spectrometer", FOCUS Collaboration, Nuclear Instruments and Methods, A516 (2004) 364.

- 89) "Measurements of the Relative Branching Ratios of  $\Lambda_c^+$  Decays in States Containing a  $\Sigma$ ", FOCUS Collaboration, Phys. Lett. B540 (2002) 25.
- 90) "A New Measurement of the  $\Xi_c^0$  Lifetime", FOCUS Collaboration, Phys. Lett. B541 (2002) 211.
- 91) "Measurement of the  $D^+$  and  $D_s^+$  Decays into  $K^+K^-K^+$ ", FOCUS Collaboration, Phys. Lett. B541 (2002) 227.
- 92) "New Measurements of the  $D^+ \rightarrow \bar{K}^{*0}\mu^+\nu$  Form Factor Ratios", FOCUS Collaboration, Phys. Letters B544 (2002) 89-96.
- 93) "Observation of a 1750 Mev/c<sup>2</sup> Enhancement in the Diffractive Photoproduction of  $K^+K^-$ ", FOCUS Collaboration, Phys. Letters B545 (2002) 50-56.
- 94) "Charm System Tests of CPT and Lorenz Invariance with FOCUS", FOCUS Collaboration, Phys. Letters B556 (2003) 7-13.
- 95) "Study of Hadronic Five-body Decays of Charmed Mesons", FOCUS Collaboration, Phys. Lett. B561 (2003) 225-232.
- 96) "Study of the Cabibbo Suppressed Decay Modes  $D^0 \rightarrow \pi^-\pi^+$  and  $D^0 \rightarrow K^-K^+$ ", FOCUS Collaboration, Phys. Lett. B555 (2003) 167-173.
- 97) "Measurement of the  $\Omega_c^0$  Lifetime", FOCUS Collaboration, Phys. Lett. B561 (2003) 41-48.
- 98) "Studies of Correlations Between D and anti-D Mesons in High Energy Photoproduction", FOCUS Collaboration, Phys. Letters B566 (2003) 51-60.
- 99) "Measurements of  $\Xi_c^+$  Branching Ratios", FOCUS Collaboration, Phys. Letters B571 (2003) 139-147.
- 100) "Search for Rare and Forbidden Three Body Dimuon Decays of the Charmed Mesons  $D^+$  and  $D_s^+$ ", FOCUS Collaboration, Phys. Lett. B572 (2003) 21-31.
- 101) "Study of the Decay Mode  $D^0 \rightarrow K^-K^-K^+\pi^+$ ", FOCUS Collaboration, Phys. Lett. B575 (2003) 190-197.
- 102) "On the Narrow Dip Structure at 1.9 GeV/c<sup>2</sup> in Diffractive Photoproduction", FOCUS Collaboration, Phys. Letters B578 (2004) 290-296.
- 103) "Study of Hadronic Five Body Decays of Charmed Mesons Involving a  $K_S^0$ ", FOCUS Collaboration, Phys. Letters B586 (2004) 191-197.
- 104) "Charm - antiCharm Baryon Production Asymmetries in Photon Nucleon Interactions", FOCUS Collaboration, Phys. Lett. B581 (2004) 39-48.
- 105) "Dalitz Plot Analysis of  $D_S^+$  and  $D^+$  Decay to  $\pi^+\pi^-\pi^+$  using K-matrix Formalism", FOCUS Collaboration, Phys. Lett. B585 (2004) 200-212.
- 106) "Measurements of Masses and Widths of Excited Charm Mesons  $D(2)^*$  and Evidence for Broad States" FOCUS Collaboration, Phys. Letters B586 (2004) 11-20.

- 107) "New Measurements of the  $D_S^+ \rightarrow \phi\mu^+\nu$  Form-factor Ratios", FOCUS Collaboration, Phys. Letters B586 (2004) 183-190.
- 108) "Measurements of Six Body Hadronic Decays of the  $D^0$  Charmed Mesons", FOCUS Collaboration, Phys. Letters B586 (2004) 21-26.
- 109) "Measurement of the Ratio of the Vector to Pseudoscalar Charm Semileptonic Decay Rate  $\Gamma(D^+ \rightarrow K^{*0}\mu^+\nu)/\Gamma(D^+ \rightarrow K^0\mu^+\nu)$ ", FOCUS Collaboration, Phys. Letters B598 (2004) 33-41.
- 110) "Study of the Doubly and Singly Cabibbo Suppressed Decays  $D^+ \rightarrow K^+\pi^+\pi^-$  and  $D_S^+ \rightarrow K^+\pi^+\pi^-$ ", FOCUS Collaboration, Phys. Lett. B601 (2004) 10-19.
- 111) "Measurements of the  $q^2$  dependence of the  $D^0 \rightarrow K^-\mu^+\nu$  and  $D^0 \rightarrow \pi^-\mu^+\nu$  Form Factors", FOCUS Collaboration, Phys. Lett. B607 (2005) 233-242.
- 112) "Analysis of the Semileptonic Decay  $D^0 \rightarrow \bar{K}^0\pi^-\mu^+\nu$ ", FOCUS Collaboration, Phys. Letters B607 (2005) 67-77.
- 113) "Measurement of the Branching Ratio of the Decay  $D^0 \rightarrow \pi^-\mu^+\nu$  Relative to  $D^0 \rightarrow K^-\mu^+\nu$ ", FOCUS Collaboration, Phys. Letters B607 (2005) 51-58.
- 114) "Study of  $D^0 \rightarrow K_S^0 K_S^0 K_S^0 X$  Decay Channels", FOCUS Collaboration, Phys. Letters B607 (2005) 59-66.
- 115) "Study of  $D^0 \rightarrow K^+K^-\pi^+\pi^-$ ", FOCUS Collaboration, Phys. Lett. B610 (2005) 225-234.
- 116) "Measurement of the Doubly Cabibbo Suppressed Decay  $D^0 \rightarrow K^+\pi^-$  and a Search for Charm Mixing", FOCUS Collaboration, Phys. Lett. B618 (2005) 23-33.
- 117) "Application of Genetic Programming to High Energy Physics Event Selection", FOCUS Collaboration, Nuclear Instruments and Methods A551 (2005) 504-527.
- 118) "Hadronic Mass Spectrum Analysis of  $D^+ \rightarrow K^-\pi^+\mu^+\nu$  Decay and Measurement of the  $K^{*0}(892)$  Mass and Width", FOCUS Collaboration, Phys. Letters B621 (2005) 72-80.
- 119) "A Measurement of the  $D_S^+$  Lifetime", FOCUS Collaboration, Phys. Rev. Lett. 95 (2005) 0522003.
- 120) "Study of  $\Lambda_c^+$  Cabibbo Favored Decays Containing a  $\Lambda$  Baryon in the Final State", FOCUS Collaboration, Phys. Letters B624 (2005) 22-30.
- 121) "Search for T Violation in Charm Meson Decays", FOCUS Collaboration, Phys. Letters B622 (2005) 239-248.
- 122) "Search for a Strongly Decaying Neutral Charmed Pentaquark", FOCUS Collaboration, Phys. Letters B622 (2005) 229-238.
- 123) "Search for  $\Lambda_c^+ \rightarrow pK^+\pi^-$  and  $D_S^+ \rightarrow K^+K^+\pi^-$  using Genetic Programming Event Selection", FOCUS Collaboration, Phys. Lett. B624 (2005) 166-172.

- 124) “A Non-parametric Approach to the  $D^+ \rightarrow \bar{K}^{*0}\mu^+\nu$  Form-Factors”, FOCUS Collaboration, Phys. Lett. B633 (2006) 183-189.
- 125) “Study of the Decay Asymmetry Parameter and CP Violation Parameter in the  $\Lambda_c^+ \rightarrow \Lambda\pi^+$  Decay”, FOCUS Collaboration, Phys. Lett. B634 (2006) 165-172.
- 126) “Charm Meson Decays to  $K_S^0 K_S^0 X$  at FOCUS”, J.P. Cumalat, Int. J. Mod. Phys. A20 (2005) 3692-3694p
- 127) “New Measurement of  $\text{BR}(D^+ \rightarrow \rho^0\mu^+\nu)/\text{BR}(D^+ \rightarrow \bar{K}^{*0}\mu^+\nu)$  Branching Ratio”, FOCUS Collaboration, Phys. Lett. B637 (2006) 32-38.
- 128) “Search for a Pentaquark Decaying to  $pK_S^0$ ”, FOCUS Collaboration, Phys. Lett. B639 (2006) 604-611.
- 129) “A Non-parametric Approach to Measuring the  $K\pi$  Amplitudes in the  $D^+ \rightarrow K^+K^-\pi^+$  Decay”, FOCUS Collaboration, Phys. Lett. B648 (2007) 156-163.
- 130) “Study of the  $D^0 \rightarrow \pi^-\pi^+\pi^-\pi^+$  Decay”, FOCUS Collaboration, Phys. Rev. D75:052003, 2007.
- 131) “Dalitz Plot Analysis of  $D^+ \rightarrow K^-\pi^+\pi^+$  decay in the FOCUS experiment”, FOCUS Collaboration, Phys. Lett. B653 (2007) 1-11.
- 132) “CMS technical design report, volume II: Physics performance.” CMS Collaboration (G.L. Bayatian et al.). J.Phys.G34:995-1579, (2007) 585pp.
- 133) “CMS physics technical design report: Addendum on high density QCD with heavy ions.” CMS Collaboration (David G. d’Enterria, (Ed.) et al.) J.Phys.G34:2307-2455 (2007) 169pp.
- 134) “Search for a Pentaquark Decaying to  $\Xi^-\pi^-$ ”, FOCUS Collaboration, Phys. Lett. B661 (2008) 14-21.
- 135) “Study of Cabibbo Suppressed Decays of the  $D_s^+$  Charmed Strange Meson including a  $K_S^0$ ”, FOCUS Collaboration, Phys. Lett. B660 (2008) 147-153.
- 136) “The CMS experiment at the CERN LHC”, CMS Collaboration, JINST 3:S08004 (2008) 361 pages.
- 137) “The  $K^-\pi^+$  S-wave from the  $D^+ \rightarrow K^-\pi^+\pi^+$  Decay”, FOCUS Collaboration (J.M. Link et al.) Phys.Lett.B681:14-21,(2009)
- 138) “Alignment of the CMS Silicon Tracker during Commissioning with Cosmic Rays”, CMS Collaboration, JINST 5:T03009,2010. 39pp.
- 139) “Performance and Operation of the CMS Electromagnetic Calorimeter”, CMS Collaboration, JINST 5:T03010,2010.
- 140) “Precise Mapping of the Magnetic Field in the CMS Barrel Yoke using Cosmic Rays”, CMS Collaboration, JINST 5:T03021,2010, 35pp.

- 141) “Alignment of the CMS Muon System with Cosmic-Ray and Beam-Halo Muons”, CMS Collaboration, JINST 5:T03020,2010, 41pp.
- 142) “Time Reconstruction and Performance of the CMS Electromagnetic Calorimeter”, CMS Collaboration, JINST 5:T03011,2010, 27pp.
- 143) “Performance Study of the CMS Barrel Resistive Plate Chambers with Cosmic Rays”, CMS Collaboration, JINST 5:T03017,2010, 33pp.
- 144) “Aligning the CMS Muon Chambers with the Muon Alignment System during an Extended Cosmic Ray Run”, CMS Collaboration, JINST 5:T03019,2010, 35pp.
- 145) “CMS Data Processing Workflows during an Extended Cosmic Ray Run”, CMS Collaboration, JINST 5:T03006,2010, 43pp.
- 146) “Commissioning of the CMS Experiment and the Cosmic Run at Four Tesla”, CMS Collaboration, JINST 5:T03001,2010, 37pp.
- 147) “Performance of the CMS Drift Tube Chambers with Cosmic Rays”, CMS Collaboration, JINST 5:T03015,2010, 45pp.
- 148) “Performance of CMS Hadron Calorimeter Timing and Synchronization using Test Beam, Cosmic Ray, and LHC Beam Data”, CMS Collaboration, JINST 5:T03013,2010, 31pp.
- 149) “Identification and Filtering of Uncharacteristic Noise in the CMS Hadron Calorimeter”, CMS Collaboration, JINST 5:T03014,2010, 39pp.
- 150) “Commissioning of the CMS High-Level Trigger with Cosmic Rays”, CMS Collaboration, JINST 5:T03005,2010, 31pp.
- 151) “Performance of the CMS Drift-Tube Local Trigger with Cosmic Rays”, CMS Collaboration, JINST 5:T03003,2010, 31pp.
- 152) “Calibration of the CMS Drift Tube Chambers and Measurement of the Drift Velocity with Cosmic Rays”, CMS Collaboration, JINST 5:T03016,2010, 37pp.
- 153) “Fine Synchronization of the CMS Muon Drift-Tube Local Trigger using Cosmic Rays”, CMS Collaboration, JINST 5:T03004,2010, 33pp.
- 154) “Performance of the CMS Hadron Calorimeter with Cosmic Ray Muons and LHC Beam Data”, CMS Collaboration, JINST 5:T03012,2010, 35pp.
- 155) “Performance of the CMS Cathode Strip Chambers with Cosmic Rays”, CMS Collaboration, JINST 5:T03018,2010, 39pp.
- 156) “Performance of CMS Muon Reconstruction in Cosmic-Ray Events”, CMS Collaboration, JINST 5:T03022,2010, 47pp.
- 157) “Commissioning and Performance of the CMS Silicon Strip Tracker with Cosmic Ray Muons”, CMS Collaboration, JINST 5:T03008,2010, 45pp.

- 158) "Measurement of the Muon Stopping Power in Lead Tungstate", CMS Collaboration, JINST 5:P03007,2010, 39pp.
- 159) "Performance of the CMS Level-1 Trigger during Commissioning with Cosmic Ray Muons", CMS Collaboration, JINST 5:T03002,2010, 49pp.
- 160) "Commissioning and Performance of the CMS Pixel Tracker with Cosmic Ray Muons", CMS Collaboration, JINST 5:T03007,2010, 37pp.
- 161) "First Measurement of the Underlying Event Activity at the LHC with  $\sqrt{s} = 0.9$  TeV", CMS Collaboration, Eur.Phys.J.C70:555-572,2010, 30pp.
- 162) "CMS Tracking Performance Results from early LHC Operation", CMS Collaboration, Eur.Phys.J.C70:1165-1192,2010, 44pp.
- 163) "Transverse momentum and pseudorapidity distributions of charged hadrons in pp collisions at  $\sqrt{s} = 0.9$  and 2.36 TeV", CMS Collaboration, JHEP 1002:041,2010.
- 164) "First Measurement of Bose-Einstein Correlations in Proton-Proton Collisions at  $\sqrt{s} = 0.9$  and 2.36 TeV at the LHC", CMS Collaboration, Phys.Rev.Lett.105:032001,2010, 24pp.
- 165) "Transverse-momentum and pseudorapidity distributions of charged hadrons in pp collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, Phys.Rev.Lett.105:022002,2010, 26pp.
- 166) "Measurement of the charge ratio of atmospheric muons with the CMS detector", CMS Collaboration, Phys.Lett.B692:83-104,2010, 32pp.
- 167) "Observation of Long-Range Near-Side Angular Correlations in Proton-Proton Collisions at the LHC", CMS Collaboration, JHEP 1009:091,2010.
- 168) "Search for Dijet Resonances in 7 TeV pp Collisions at CMS", CMS Collaboration, Phys.Rev.Lett.105:211801,2010, 24pp.
- 169) "Search for Quark Compositeness with the Dijet Centrality Ratio in pp Collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, Phys.Rev.Lett.105:262001,2010.
- 170) "First Measurement of the Cross Section for Top-Quark Pair Production in Proton-Proton Collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, Phys.Lett.B695:424-443,2011.
- 171) "Prompt and non-prompt J/psi production in pp collisions at  $\sqrt{s}= 7$  TeV", CMS Collaboration (V. Khachatryan et al.), Eur.Phys.J.C71:1575,2011.
- 172) "Charged particle multiplicities in pp interactions at  $\sqrt{s} = 0.9$ , 2.36, and 7 TeV", CMS Collaboration, JHEP 1101:079,2011.
- 173) "Search for Stopped Gluinos in pp collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, Phys.Rev.Lett.106:011801,2011.
- 174) "Measurement of the Isolated Prompt Photon Production Cross Section in pp Collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, Phys.Rev.Lett.106:082001,2011.

- 175) "Measurements of Inclusive W and Z Cross Sections in pp Collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, JHEP 1101:080,2011.
- 176) "Search for Microscopic Black Hole Signatures at the Large Hadron Collider", CMS Collaboration, Phys.Lett.B697:434-453,2011.
- 177) "Search for Pair Production of First-Generation Scalar Leptoquarks in pp Collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, Phys.Rev.Lett.106:201802,2011.
- 178) "Search for Pair Production of Second-Generation Scalar Leptoquarks in pp Collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, Phys.Rev.Lett.106:201803,2011.
- 179) "Measurement of the Inclusive Upsilon production cross section in pp collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, Phys.Rev.D83:112004,2011.
- 180) "Search for a heavy gauge boson W' in the final state with an electron and large missing transverse energy in pp collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, Phys.Lett.B698:21-39,2011
- 181) "Measurement of the B<sup>+</sup> Production Cross Section in pp Collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, Phys.Rev.Lett.106:112001,2011.
- 182) "Search for Supersymmetry in pp Collisions at 7 TeV in Events with Jets and Missing Transverse Energy", CMS Collaboration, Phys.Lett.B698:196-218,2011.
- 183) "Search for Heavy Stable Charged Particles in pp collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, JHEP 1103:024, 2011.
- 184) "Dijet Azimuthal Decorrelations in pp Collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, Phys.Rev.Lett. 106 (2011) 122003
- 185) "Diamond Detectors", M. Mikuz et al. 2010, 8pp, Published in PoS VERTEX2010:024,2010.
- 186) "Measurement of the lepton charge asymmetry in inclusive W production in pp collisions at  $\sqrt{s} = 7$  TeV". CMS Collaboration, JHEP 1104:050,2011.
- 187) "Search for Physics Beyond the Standard Model in Opposite-Sign Dilepton Events at  $\sqrt{s} = 7$  TeV", CMS Collaboration, JHEP 1106:026, 2011
- 188) "Search for Resonances in the Dilepton Mass Distribution in pp Collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, JHEP 1105:093,2011.
- 189) "Search for Supersymmetry in pp Collisions at  $\sqrt{s} = 7$  TeV in Events with Two Photons and Missing Transverse Energy", CMS Collaboration, Phys. Rev. Lett.106:211802, 2011
- 190) "Search for a W' boson decaying to a muon and a neutrino in pp collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, Phys.Lett.B701:160-179,2011.
- 191) "Study of Z boson production in PbPb collisions at nucleon-nucleon centre of mass energy = 2.76 TeV", CMS Collaboration, Phys.Rev.Lett.106:212301,2011

- 192) "Measurement of W+W- Production and Search for the Higgs Boson in pp Collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, Phys.Lett.B699:25-47,2011.
- 193) "Search for a Heavy Bottom-like Quark in  $pp$  Collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, Phys.Lett.B701:204-223,2011.
- 194) "Strange Particle Production in  $pp$  Collisions at  $\sqrt{s} = 0.9$  and 7 TeV", CMS Collaboration, JHEP 1105:064,2011.
- 195) "Measurement of B anti-B Angular Correlations based on Secondary Vertex Reconstruction at  $\sqrt{s} = 7$  TeV", CMS Collaboration, JHEP 1103:136,2011.
- 196) "Measurement of Dijet Angular Distributions and Search for Quark Compositeness in  $pp$  Collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, Phys.Rev.Lett.106:201804,2011.
- 197) "Observation and studies of jet quenching in PbPb collisions at nucleon-nucleon center-of-mass energy = 2.76 TeV", CMS Collaboration, Phys.Rev.C84:024906,2011
- 198) "First Measurement of Hadronic Event Shapes in  $pp$  Collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, Phys.Lett.B699:48-67,2011.
- 199) "Dijet Azimuthal Decorrelations in  $pp$  Collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, Phys.Rev.Lett.106:122003,2011
- 200) "Measurement of Bose-Einstein Correlations in  $pp$  Collisions at  $\sqrt{s} = 0.9$  and 7 TeV", CMS Collaboration, JHEP 1105:029,2011.
- 201) "Inclusive b-hadron production cross section with muons in  $pp$  collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, JHEP 1103:090,2011.
- 202) "Search for Large Extra Dimensions in the Diphoton Final State at the Large Hadron Collider", CMS Collaboration, JHEP 1105:085,2011.
- 203) "Measurement of the Inclusive Z Cross Section via Decays to Tau Pairs in  $pp$  Collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration (Serguei Chatrchyan et al.), JHEP 1108:117,2011.
- 204) "Search for Neutral MSSM Higgs Bosons Decaying to Tau Pairs in  $pp$  Collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, Phys.Rev.Lett.106:231801,2011.
- 205) "Measurement of the differential dijet production cross section in proton-proton collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, Phys.Lett.B700:187-206,2011.
- 206) "Measurement of the B0 production cross section in  $pp$  Collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, Phys.Rev.Lett.106:252001,2011.
- 207) "Search for new physics with same-sign isolated dilepton events with jets and missing transverse energy at the LHC", CMS Collaboration, JHEP 1106:077,2011.
- 208) "Charged particle transverse momentum spectra in  $pp$  collisions at  $\sqrt{s} = 0.9$  and 7 TeV", CMS Collaboration, JHEP 1108:086,2011.
- 209) "Measurement of the Polarization of W Bosons with Large Transverse Momenta in W+Jets Events at the LHC", CMS Collaboration, Phys.Rev.Lett.107:021802,2011.

- 210) "Long-range and short-range dihadron angular correlations in central PbPb collisions at a nucleon-nucleon center of mass energy of 2.76 TeV", CMS Collaboration, JHEP 1107:076,2011.
- 211) "Measurement of  $W\gamma$  and  $Z\gamma$  production in  $pp$  collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, Phys.Lett.B701:535-555,2011.
- 212) "Search for supersymmetry in events with a lepton, a photon, and large missing transverse energy in  $pp$  collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, JHEP 1106:093,2011.
- 213) "Indications of Suppression of excited  $\Upsilon$  states in PbPb collisions at  $\sqrt{s_{NN}} = 2.76$  TeV", CMS Collaboration, Phys.Rev.Lett.107:052302,2011
- 214) "Search for First Generation Scalar Leptoquarks in the  $e\nu jj$  channel in  $pp$  collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, Phys.Lett.B703:246-266,2011.
- 215) "Measurement of the  $t\bar{t}$  production cross section and the top quark mass in the dilepton channel in  $pp$  collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, JHEP 1107:049,2011.
- 216) "Measurement of the Inclusive Jet Cross Section in  $pp$  Collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, Phys.Rev.Lett.107:132001,2011.
- 217) "Measurement of the Ratio of the 3-jet to 2-jet Cross Sections in  $pp$  Collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, Phys.Lett.B702:336-354,2011.
- 218) "Measurement of the Top-antitop Production Cross Section in  $pp$  Collisions at  $\sqrt{s} = 7$  TeV using the Kinematic Properties of Events with Leptons and Jets", CMS Collaboration, Eur.Phys.J.C71:1721,2011.
- 219) "Search for Physics Beyond the Standard Model Using Multilepton Signatures in  $pp$  Collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, Phys.Lett.B704:411-433,2011.
- 220) "Search for Same-Sign Top-Quark Pair Production at  $\sqrt{s} = 7$  TeV and Limits on Flavour Changing Neutral Currents in the Top Sector", CMS Collaboration, JHEP 1108:005,2011.
- 221) "Search for Light Resonances Decaying into Pairs of Muons as a Signal of New Physics", CMS Collaboration, JHEP 1107:098,2011.
- 222) "Measurement of the t-channel single top quark production cross section in  $pp$  collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, Phys.Rev.Lett.107:091802,2011.
- 223) "Search for Supersymmetry in Events with b Jets and Missing Transverse Momentum at the LHC", CMS Collaboration, JHEP 1107:113,2011.
- 224) "Measurement of the Strange B Meson Production Cross Section with  $J/\Psi$  phi Decays in  $pp$  Collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, Phys.Rev.D84:052008,2011.
- 225) "Search for New Physics with Jets and Missing Transverse Momentum in  $pp$  collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, JHEP 1108:155,2011.
- 226) "Search for New Physics with a Mono-Jet and Missing Transverse Energy in  $pp$  Collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, Phys.Rev.Lett.107:201804, 2011

- 227) "Missing transverse energy performance of the CMS detector", CMS Collaboration, JINST 6:P09001,2011.
- 228) "Measurement of the Underlying Event Activity at the LHC with  $\sqrt{s} = 7$  TeV and Comparison with  $\sqrt{s} = 0.9$  TeV", CMS Collaboration, JHEP 1109:109,2011.
- 229) "Inclusive search for squarks and gluinos in pp collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, Phys.Rev.D85:012004, 2012
- 230) "Indications of suppression of excited  $\Upsilon$  states in PbPb collisions at  $\sqrt{S_{NN}} = 2.76$  TeV", CMS Collaboration (Serguei Chatrchyan et al.), Phys.Rev.Lett.107:052302,2011.
- 231) "A search for excited leptons in pp Collisions at  $\sqrt{s} = 7$  TeV", By CMS Collaboration (Serguei Chatrchyan et al.), Phys.Lett.B704:143-162,2011.
- 232) "Search for supersymmetry in pp collisions at  $\sqrt{s} = 7$  TeV in events with a single lepton, jets, and missing transverse momentum", CMS Collaboration (Serguei Chatrchyan et al.), JHEP 1108:156,2011.
- 233) "Search for Three-Jet Resonances in pp Collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration (Serguei Chatrchyan et al.), Phys.Rev.Lett.107:101801,2011.
- 234) "Determination of Jet Energy Calibration and Transverse Momentum Resolution in CMS", CMS Collaboration, JINST 6:P11002,2011.
- 235) "Search for Resonances in the Dijet Mass Spectrum from 7 TeV pp Collisions at CMS", CMS Collaboration, Phys.Lett.B704:123-142,2011.
- 236) "Measurement of the Inclusive W and Z Production Cross Sections in pp Collisions at  $\sqrt{s} = 7$  TeV with the CMS experiment", CMS Collaboration, JHEP 1110:132,2011.
- 237) "Dependence on pseudorapidity and centrality of charged hadron production in PbPb collisions at a nucleon-nucleon centre-of-mass energy of 2.76 TeV", CMS Collaboration, JHEP 1108:141,2011.
- 238) "Search for B(s) and B to dimuon decays in pp collisions at 7 TeV", CMS Collaboration, Phys.Rev.Lett.107:191802,2011
- 239) "Measurement of the Drell-Yan Cross Section in pp Collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, JHEP 1110:007,2011.
- 240) "Measurement of the Differential Cross Section for Isolated Prompt Photon Production in pp Collisions at 7 TeV", CMS Collaboration, Phys.Rev.D84:052011,2011.
- 241) "Measurement of the  $t\bar{t}$  Production Cross Section in pp Collisions at 7 TeV in Lepton + Jets Events Using b-quark Jet Identification", CMS Collaboration, Phys. Rev. Lett:2217804,2011.
- 242) "Search for Supersymmetry at the LHC in Events with Jets and Missing Transverse Energy", CMS Collaboration, Phys.Rev.Lett:107:221804,2011
- 243) "Search for a Vector-like Quark with Charge 2/3 in t + Z Events from pp Collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, Phys.Rev.Lett:107:271802,2011

- 244) "Forward Energy Flow, Central Charged-Particle Multiplicities, and Pseudorapidity Gaps in W and Z Boson Events from pp Collisions at 7 TeV", CMS Collaboration, Eur. Phys. J. C72 (2012) 1839
- 245) "Measurement of energy flow at large pseudorapidities in pp collisions at  $\sqrt{s} = 0.9$  and 7 TeV", CMS Collaboration, JHEP 1111:148,201
- 246) "Measurement of the weak mixing angle with the Drell-Yan process in proton-proton collisions at the LHC", CMS Collaboration, Phys.Rev.D84:112002,2011.
- 247) "Jet Production Rates in Association with W and Z Bosons in pp Collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, JHEP 1201:010,2012
- 248) "Measurement of the Rapidity and Transverse Momentum Distributions of Z Bosons in pp Collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, Phys. Rev. D85 (2012) 032002
- 249) "Measurement of the Production Cross Section for Pairs of Isolated Photons in pp collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, JHEP 1201 (2012) 133
- 250) "J/psi and psi(2S) production in pp collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, JHEP 1202 (2012) 011
- 251) "Exclusive photon-photon production of muon pairs in proton-proton collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, JHEP 1201 (2012) 052
- 252) "Search for signatures of extra dimensions in the diphoton mass spectrum at the Large Hadron Collider", CMS Collaboration, Phys. Rev. Lett. 108 (2012) 111801
- 253) "Measurement of the charge asymmetry in top-quark pair production in proton-proton collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, Phys. Lett. B709 (2012) 28-49
- 254) "Measurement of isolated photon production in pp and PbPb collisions at  $\sqrt{s_{NN}} = 2.76$  TeV", CMS Collaboration, Phys. Lett. B710 (2012) 256-277
- 255) "Centrality Dependence of dihadron correlations and azimuthal anisotropy harmonics in PbPb collisions at  $\sqrt{s_{NN}} = 2.76$  TeV", CMS Collaboration, Eur. Phys. J. C72 (2012) 2012
- 256) "Suppression of non-prompt J/psi, prompt J/psi, and Y(1S) in PbPb collisions at  $\sqrt{s_{NN}} = 2.76$  TeV", CMS Collaboration, JHEP 1205 (2012) 063
- 257) "Measurement of the inclusive production cross sections for forward jets and for dijet events with one forward and one central jet in pp collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, JHEP 1206 (2012) 036
- 258) "Search for a Higgs boson in the decay channel H to ZZ(\*) to q qbar l- l+ in pp collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, JHEP 1204 (2012) 036
- 259) "Search for the standard model Higgs boson decaying into two photons in pp collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, Phys.Lett. B710 (2012) 403-425
- 260) "Combined results of searches for the standard model Higgs boson in pp collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, Phys.Lett. B710 (2012) 26-48

- 261) "Search for the standard model Higgs boson decaying to a W pair in the fully leptonic final state in pp collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, Phys.Lett. B710 (2012) 91-113
- 262) "Search for the standard model Higgs boson in the decay channel H to ZZ to 4 leptons in pp collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, Phys.Rev.Lett. 108 (2012) 111804
- 263) "Study of high-pT charged particle suppression in PbPb compared to pp collisions at  $\sqrt{s_{NN}} = 2.76$  TeV", CMS Collaboration, Eur.Phys.J. C72 (2012) 1945
- 264) "Search for the standard model Higgs boson in the H to ZZ to ll $\tau\tau$  decay channel in pp collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, JHEP 1203 (2012) 081
- 265) "Search for the standard model Higgs boson in the H to ZZ to 2l 2 neutrinos channel in pp collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, JHEP 1203 (2012) 040
- 266) "Search for large extra dimensions in dimuon and dielectron events in pp collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, Phys.Lett. B711 (2012) 15-34
- 267) "Search for neutral Higgs bosons decaying to  $\tau$  pairs in pp collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, Phys.Lett. B713 (2012) 68-90
- 268) "Search for the standard model Higgs boson decaying to bottom quarks in pp collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, Phys.Lett. B710 (2012) 284-306
- 269) "Inclusive b-jet production in pp collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, JHEP 1204 (2012) 084
- 270) "Jet momentum dependence of jet quenching in PbPb collisions at  $\sqrt{s_{NN}} = 2.76$  TeV", CMS Collaboration, Phys.Lett. B712 (2012) 176-197
- 271) "Search for quark compositeness in dijet angular distributions from pp collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, JHEP 1205 (2012) 055
- 272) "Search for microscopic black holes in pp collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, JHEP 1204 (2012) 061
- 273) "Measurement of the cross section for production of bb-bar X, decaying to muons in pp collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, JHEP 1206 (2012) 110
- 274) "Search for  $B_s^0 \rightarrow \mu^+ \mu^-$  and  $B^0 \rightarrow \mu^+ \mu^-$  decays", CMS Collaboration, JHEP 1204 (2012) 033
- 275) "Measurement of the top quark pair production cross section in pp collisions at  $\sqrt{s} = 7$  TeV in dilepton final states containing a  $\tau$ ", CMS Collaboration, Phys.Rev. D85 (2012) 112007
- 276) "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", CMS Collaboration, Eur.Phys.J. C72 (2012) 2216

- 277) "Search for Dark Matter and Large Extra Dimensions in pp Collisions Yielding a Photon and Missing Transverse Energy", CMS Collaboration, Phys.Rev.Lett. 108 (2012) 261803
- 278) "Search for heavy bottom-like quarks in 4.9 inverse femtobarns of pp collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, JHEP 1205 (2012) 123
- 279) "Measurement of the underlying event in the Drell-Yan process in proton-proton collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, Eur.Phys.J. C72 (2012) 2080
- 280) "Measurement of the elliptic anisotropy of charged particles produced in PbPb collisions at nucleon-nucleon center-of-mass energy = 2.76 TeV", CMS Collaboration, Phys. Rev. C87 (2013) 014902
- 281) "Measurement of the Z/gamma\*+b-jet cross section in pp collisions at 7 TeV", CMS Collaboration, JHEP 1206 (2012) 126
- 282) "Azimuthal anisotropy of charged particles at high transverse momenta in PbPb collisions at  $\sqrt{s_{NN}} = 2.76$  TeV", CMS Collaboration, Phys.Rev.Lett. 109 (2012) 022301
- 283) "Measurement of the mass difference between top and antitop quarks", CMS Collaboration, JHEP 1206 (2012) 109
- 284) "Shape, transverse size, and charged hadron multiplicity of jets in pp collisions at 7 TeV", CMS Collaboration, JHEP 1206 (2012) 160
- 285) "Search for physics beyond the standard model in events with a Z boson, jets, and missing transverse energy in pp collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, Phys.Lett. B716 (2012) 260-284
- 286) "Observation of a new  $\Xi(b)$  baryon", CMS Collaboration, Phys.Rev.Lett. 108 (2012) 252002
- 287) "Studies of jet quenching using isolated-photon+jet correlations in PbPb and pp collisions at  $\sqrt{s_{NN}} = 2.76$  TeV", CMS Collaboration, Phys.Lett. B718 (2013) 773-794
- 288) "Search for heavy long-lived charged particles in pp collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, Phys.Lett. B713 (2012) 408-433
- 289) "Measurement of the Lambda-b cross section and the  $\Lambda^-(b)$  to Lambdab ratio with Lambdab to J/Psi  $\Lambda^0$  decays in pp collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, Phys.Lett. B714 (2012) 136-157
- 290) "Measurement of the pseudorapidity and centrality dependence of the transverse energy density in PbPb collisions at  $\sqrt{s_{NN}} = 2.76$  TeV", CMS Collaboration, Phys. Rev. Lett. 109 (2012) 152303
- 291) "Search for new physics in events with same-sign dileptons and b-tagged jets in pp collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, JHEP 1208 (2012) 110
- 292) "Measurement of jet fragmentation into charged particles in pp and PbPb collisions at  $\sqrt{s_{NN}} = 2.76$  TeV", CMS Collaboration, JHEP 1210 (2012) 087

- 293) "Study of W boson production in PbPb and pp collisions at  $\sqrt{s_{NN}} = 2.76$  TeV", CMS Collaboration, Phys.Lett. B715 (2012) 66-87
- 294) "Search for a W' or Techni-rho Decaying into WZ in pp Collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, Phys.Rev.Lett. 109 (2012) 141801
- 295) "Search for high mass resonances decaying into  $\tau$  lepton pairs in pp collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, Phys.Lett. B716 (2012) 82-102
- 296) "Measurement of the electron charge asymmetry in inclusive W production in pp collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, Phys.Rev.Lett. 109 (2012) 111806
- 297) "Search for charge-asymmetric production of W' bosons in top pair + jet events from pp collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, Phys.Lett. B717 (2012) 351-370
- 298) "Search for new physics in events with opposite-sign leptons, jets, and missing transverse energy in pp collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, Phys.Lett. B718 (2013) 815-840
- 299) "Search for high mass resonances decaying into  $\tau$ - lepton pairs in pp collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, Phys.Lett. B716 (2012) 82-102
- 300) "Search for dark matter and large extra dimensions in monojet events in pp collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, JHEP 1209 (2012) 094
- 301) "Search for a light pseudoscalar Higgs boson in the dimuon decay channel in pp collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, Phys.Rev.Lett. 109 (2012) 121801
- 302) "Search for new physics with long-lived particles decaying to photons and missing energy in pp collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, JHEP 1211 (2012) 172
- 303) "Search for a fermiophobic Higgs boson in pp collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, JHEP 1209 (2012) 111
- 304) "Search for new physics in the multijet and missing transverse momentum final state in proton-proton collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, Phys.Rev.Lett. 109 (2012) 171803
- 305) "A search for a doubly-charged Higgs boson in pp collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, Eur.Phys.J. C72 (2012) 2189
- 306) "Forward-backward asymmetry of Drell-Yan lepton pairs in pp collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, Phys.Lett. B718 (2013) 752-772
- 307) "Study of the inclusive production of charged pions, kaons, and protons in pp collisions at  $\sqrt{s} = 0.9$ , 2.76, and 7 TeV", CMS Collaboration, Eur.Phys.J. C72 (2012) 2164
- 308) "Search for pair production of first- and second-generation scalar leptoquarks in pp collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, Phys.Rev. D86 (2012) 052013
- 309) "Search for heavy Majorana neutrinos in  $\mu^+\mu^+[\mu^-\mu^-]$  and  $e^+e^+[e^-e^-]$  events in pp collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, Phys.Lett. B717 (2012) 109-128

- 310) “Observation of a new boson at a mass of 125 GeV with the CMS experiment at the LHC”, CMS Collaboration, Phys.Lett. B716 (2012) 30-61
- 311) “Search for a W’ boson decaying to a bottom quark and a top quark in pp collisions at  $\sqrt{s} = 7$  TeV”, CMS Collaboration, Phys.Lett. B718 (2013) 1229-1251
- 312) “Search for flavor changing neutral currents in top quark decays in pp collisions at 7 TeV”, CMS Collaboration, Phys.Lett. B718 (2013) 1252-1272
- 313) “Measurement of the azimuthal anisotropy of neutral pions in PbPb collisions at  $\sqrt{s_{NN}} = 2.76$  TeV”, CMS Collaboration, Phys.Rev.Lett. 110 (2013) 042301
- 314) “Measurement of the tt-bar production cross section in the dilepton channel in pp collisions at  $\sqrt{s} = 7$  TeV”, CMS Collaboration, JHEP 1211 (2012) 067
- 315) “Observation of sequential Upsilon suppression in PbPb collisions”, CMS Collaboration, Phys.Rev.Lett. 109 (2012) 222301
- 316) “Search for three-jet resonances in pp collisions at  $\sqrt{s} = 7$  TeV”, CMS Collaboration, Phys.Lett. B718 (2012) 329-347
- 317) “Study of the dijet mass spectrum in pp  $\rightarrow$  W<sup>+</sup> jet events at  $\sqrt{s} = 7$  TeV”, CMS Collaboration, Phys.Rev.Lett. 109 (2012) 251801
- 318) “Search for supersymmetry in events with b-quark jets and missing transverse energy in pp collisions at 7 TeV”, CMS Collaboration, Phys.Rev. D86 (2012) 072010
- 319) “Search for pair produced fourth-generation up-type quarks in pp collisions at  $\sqrt{s} = 7$  TeV with a lepton in the final state”, CMS Collaboration, Phys.Lett. B718 (2012) 307-328
- 320) “Combined search for the quarks of a sequential fourth generation”, CMS Collaboration, Phys.Rev. D86 (2012) 112003
- 321) “Search for exclusive or semi-exclusive photon pair production and observation of exclusive and semi-exclusive electron pair production in pp collisions at  $\sqrt{s} = 7$  TeV”, CMS Collaboration, JHEP 1211 (2012) 080
- 322) “Observation of a diffractive contribution to dijet production in proton-proton collisions at  $\sqrt{s} = 7$  TeV”, CMS Collaboration, Phys.Rev. D87 (2013) 012006
- 323) “Measurement of the top-quark mass in tt-bar events with lepton+jets final states in pp collisions at  $\sqrt{s} = 7$  TeV”, CMS Collaboration, JHEP 1212 (2012) 105
- 324) “Measurement of the top-quark mass in tt-bar events with dilepton final states in pp collisions at  $\sqrt{s} = 7$  TeV”, CMS Collaboration, Eur.Phys.J. C72 (2012) 2202
- 325) “Search for new physics in events with same-sign dileptons and b jets in pp collisions at  $\sqrt{s} = 8$  TeV”, CMS Collaboration, JHEP 1303 (2013) 037, Erratum-ibid. 1307 (2013) 041
- 326) “Inclusive search for supersymmetry using the razor variables in pp collisions at  $\sqrt{s} = 7$  TeV”, CMS Collaboration, Phys.Rev.Lett. 111 (2013) 081802

- 327) "Measurement of the ttbar production cross section in pp collisions at  $\sqrt{s} = 7$  TeV with lepton + jets final states", CMS Collaboration, Phys.Lett. B720 (2013) 83-104
- 328) "Measurements of differential jet cross sections in proton-proton collisions at  $\sqrt{s} = 7$  TeV with the CMS detector", CMS Collaboration, Phys.Rev. D87 (2013) 112002
- 329) "On the mass and spin-parity of the Higgs boson candidate via its decays to Z boson pairs", CMS Collaboration, Phys.Rev.Lett. 110 (2013) 081803
- 330) "Search for supersymmetry in pp collisions at  $\sqrt{s} = 7$  TeV in events with a single lepton, jets, and missing transverse momentum", CMS Collaboration, Eur.Phys.J. C73 (2013) 2404
- 331) "Search for supersymmetry in events with opposite-sign dileptons and missing transverse energy using an artificial neural network", CMS Collaboration, Phys.Rev.D87 (2013) 072001
- 332) "Event shapes and azimuthal correlations in Z + jets events in pp collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, Phys.Lett. B722 (2013) 238-261
- 333) "Interpretation of searches for supersymmetry with simplified models", CMS Collaboration, Phys.Rev. D88 (2013) 052017
- 334) "Search for a Higgs boson decaying into two photons in the CMS detector", CMS Collaboration, Pramana 79 (2012) 1341-1344
- 335) "Search for the Standard Model Higgs boson in the decay channel  $H \rightarrow 4l$  at CMS", CMS Collaboration, Pramana 79 (2012) 1321-1324
- 336) "W/Z + jet(s) production in p p collisions at  $\sqrt{s} = 7$ -TeV", CMS Collaboration, Pramana 79 (2012) 1285-1288
- 337) "Search for the Standard Model Higgs boson in the decay channel  $H \rightarrow ZZ(*) \rightarrow 4l$  at CMS", CMS Collaboration, Pramana 79 (2012) 1321-1324
- 338) "Measurement of single top production in p p collisions at 7-TeV with the CMS detector", CMS Collaboration, Pramana 79 (2012) 1223-1226
- 339) "Anomalous APD signals in the CMS Electromagnetic Calorimeter", CMS Collaboration, Nucl.Instrum.Meth. A695 (2012) 293-295
- 340) "CMS Tier-0: Preparing for the future", CMS Collaboration, J.Phys.Conf.Ser. 396 (2012) 022025
- 341) "Alignment procedures for the CMS silicon tracker", CMS Collaboration, J. Phys. Conf. Ser. 396 (2012) 022005
- 342) "Search for physics beyond the standard model in events with tau leptons, jets, and large transverse momentum imbalance in pp collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, Eur.Phys.J C73 (2013) 2493
- 343) "Xroottd monitoring for the CMS experiment", CMS Collaboration, J.Phys.Conf.Ser. 396 (2012) 042058

- 344) "CMS experience with online and offline databases", CMS Collaboration, J. Phys. Conf. Ser. 396 (2012) 052059
- 345) "Measurement of differential top-quark pair production cross sections in pp collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, Eur.Phys.J. C73 (2013) 2339
- 346) "Search in leptonic channels for heavy resonances decaying to long-lived neutral particles", CMS Collaboration, JHEP 1302 (2013) 085
- 347) "Search for supersymmetry in final states with a single lepton, b-quark jets, and missing transverse energy in proton-proton collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, Phys.Rev. D87 (2013) 5, 052006
- 348) "Search for Z' resonances decaying to tt-bar in dilepton+jets final states in pp collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, Phys.Rev. D87 (2013) 072002
- 349) "Identification of b-quark jets with the CMS experiment", CMS Collaboration, JINST 8 (2013) P04013
- 350) "Search for new physics in events with photons, jets, and missing transverse energy in pp collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, JHEP 1303 (2013) 111
- 351) "Measurement of the ZZ production cross section and search for anomalous couplings in 2 l2l' final states in pp collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, JHEP 1301 (2013) 063
- 352) "Search for exotic resonances decaying into WZ/ZZ in pp collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, JHEP 1302 (2013) 036
- 353) "Search for long-lived particles decaying to photons and missing energy in proton-proton collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, Phys.Lett. B722 (2013) 273-294
- 354) "Search for heavy resonances in the W/Z-tagged dijet mass spectrum in pp collisions at 7 TeV", CMS Collaboration, Phys.Lett. B723 (2013) 280-301
- 355) "Search for contact interactions in opposite-sign dimuon events in pp collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, Phys.Rev. D87 (2013) 3, 032001
- 356) "Search for heavy narrow dilepton resonances in pp collisions at  $\sqrt{s} = 7$  TeV and  $\sqrt{s} = 8$  TeV", CMS Collaboration, Phys.Lett. B720 (2013) 63-82
- 357) "Search for new physics in events with same-sign dileptons and b jets in pp collisions at  $\sqrt{s} = 8$  TeV", CMS Collaboration, JHEP 1303 (2013) 037, Erratum-ibid. 1307 (2013) 041
- 358) "Inclusive search for supersymmetry using the razor variables in pp collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, Phys.Rev.Lett. 111 (2013) 081802
- 359) "Measurement of the tt-bar production cross section in pp collisions at  $\sqrt{s} = 7$  TeV with lepton + jets final states", CMS Collaboration, Phys.Lett. B720 (2013) 83-104
- 360) "Measurements of differential jet cross sections in proton-proton collisions at  $\sqrt{s} = 7$  TeV with the CMS detector", CMS Collaboration, Phys.Rev. D87 (2013) 112002

- 361) “On the mass and spin-parity of the Higgs boson candidate via its decays to Z boson pairs”, CMS Collaboration, Phys.Rev.Lett. 110 (2013) 081803
- 362) “Search for supersymmetry in pp collisions at  $\sqrt{s} = 7$  TeV in events with a single lepton, jets, and missing transverse momentum”, CMS Collaboration, Eur.Phys.J. C73 (2013) 2404
- 363) “Search for supersymmetry in events with opposite-sign dileptons and missing transverse energy using an artificial neural network”, CMS Collaboration, Phys.Rev. D87 (2013) 072001
- 364) “Event shapes and azimuthal correlations in Z + jets events in pp collisions at  $\sqrt{s} = 7$  TeV”, CMS Collaboration, Phys.Lett. B722 (2013) 238-261
- 365) “Measurement of W+W- and ZZ production cross sections in pp collisions at  $\sqrt{s} = 8$  TeV”, CMS Collaboration, Phys.Lett. B721 (2013) 190-211
- 366) “Search for contact interactions using the inclusive jet pT spectrum in pp collisions at  $\sqrt{s} = 7$  TeV”, CMS Collaboration, Phys.Rev. D87 (2013) 052017
- 367) “Measurement of the top-antitop production cross section in the tau + jets channel in pp collisions at  $\sqrt{s} = 7$  TeV”, CMS Collaboration, Eur.Phys.J. C73 (2013) 2386
- 368) “Measurement of the ttbar production cross section in the all-jet final state in pp collisions at  $\sqrt{s} = 7$  TeV”, CMS Collaboration, JHEP 1305 (2013) 065
- 369) “Search for pair-produced dijet resonances in four-jet final states in pp collisions at  $\sqrt{s} = 7$  TeV”, CMS Collaboration, Phys.Rev.Lett. 110 (2013) 141802
- 370) “Searches for Higgs bosons in pp collisions at  $\sqrt{s} = 7$  and 8 TeV in the context of four-generation and fermiophobic models”, CMS Collaboration, Phys.Lett. B725 (2013) 36-59
- 371) “Study of the underlying event at forward rapidity in pp collisions at  $\sqrt{s} = 0.9$ , 2.76, and 7 TeV”, CMS Collaboration, JHEP 1304 (2013) 072
- 372) “Search for new physics in final states with a lepton and missing transverse energy in pp collisions at the LHC” CMS Collaboration, Phys.Rev. D87 (2013) 7, 072005
- 373) “Search for a Higgs boson decaying into a b-quark pair and produced in association with b quarks in proton-proton collisions at 7 TeV”, CMS Collaboration, Phys.Lett. B722 (2013) 207-232
- 374) “Measurement of the X(3872) production cross section via decays to  $J/\psi\pi\pi$  in pp collisions at  $\sqrt{s} = 7$  TeV”, CMS Collaboration, JHEP 1304 (2013) 154
- 375) “Search for narrow resonances using the dijet mass spectrum in pp collisions at  $\sqrt{s} = 8$  TeV”, CMS Collaboration, Phys.Rev. D87 (2013) 114015
- 376) “Measurement of the  $\Upsilon(1S)$ ,  $\Upsilon(2S)$  and  $\Upsilon(3S)$  polarizations in pp collisions at  $\sqrt{s} = 7$  TeV”, CMS Collaboration, Phys. Rev.110 (2013) 081802

- 377) "Evidence for associated production of a single top quark and W boson in pp collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, Phys. Rev.Lett.110 (2013) 022003
- 378) "Search for a narrow spin-2 resonance decaying to a pair of Z vector bosons in the semileptonic final state", CMS Collaboration, Phys.Lett. B718 (2013) 1208-1228
- 379) "Measurement of the relative prompt production rate of  $\chi(c2)$  and  $\chi(c1)$  in pp collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, Eur.Phys.J. C72 (2012) 2251
- 380) "Search for heavy lepton partners of neutrinos in proton-proton collisions in the context of the type III seesaw mechanism", CMS Collaboration, Phys.Lett. B718 (2012) 348-368
- 381) "Search for heavy neutrinos and W[R] bosons with right-handed couplings in a left-right symmetric model in pp collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, Phys.Rev.Lett. 109 (2012) 261802
- 382) "Observation of Z decays to four leptons with the CMS detector at the LHC", CMS Collaboration, JHEP 1212 (2012) 034
- 383) "Search for third-generation leptoquarks and scalar bottom quarks in pp collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, JHEP 1212 (2012) 055
- 384) "Search for fractionally charged particles in pp collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, Phys.Rev. D87 (2013) 092008
- 385) "Search for narrow resonances and quantum black holes in inclusive and b-tagged dijet mass spectra from pp collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, JHEP 1301 (2013) 013
- 386) "Search for excited leptons in pp collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, Phys.Lett. B720 (2013) 309-329
- 387) "Observation of long-range near-side angular correlations in proton-lead collisions at the LHC", CMS Collaboration, Phys.Lett. B718 (2013) 795-814
- 388) "Measurement of the inelastic proton-proton cross section at  $\sqrt{s} = 7$  TeV", CMS Collaboration, Phys.Lett. B722 (2013) 5-27
- 389) "Measurement of the sum of WW and WZ production with W+dijet events in pp collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, Eur.Phys.J. C73 (2013) 2283
- 390) "Search for supersymmetry in final states with missing transverse energy and 0, 1, 2, or at least 3 b-quark jets in 7 TeV pp collisions using the variable alphaT", CMS Collaboration, JHEP 1301 (2013) 077
- 391) "Search for anomalous production of highly boosted Z bosons decaying to dimuons in pp collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, Phys.Lett. B722 (2013) 28-47
- 392) "Search for supersymmetry in events with photons and low missing transverse energy in pp collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, Phys.Lett. B719 (2013) 42-61

- 393) "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", CMS Collaboration, JHEP 1301 (2013) 154
- 394) "Diamond Sensors in HEP", RD42 Collaboration, PoS ICHEP2012 (2013) 524
- 395) "Testbeam and laboratory test results of irradiated 3D CMS pixel detectors", Sensor Testbeam Group, Nucl.Instrum.Meth. A732 (2013) 52-56
- 396) "Search for the standard model Higgs boson produced in association with a top-quark pair in pp collisions at the LHC", CMS Collaboration, JHEP 1305 (2013) 145
- 397) "Measurement of the  $\Upsilon(1S)$ ,  $\Upsilon(2S)$  and  $\Upsilon(3S)$  cross sections in pp collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, Phys.Lett. B727 (2013) 101-125
- 398) "Search for a standard-model-like Higgs boson with a mass in the range 145 to 1000 GeV at the LHC", CMS Collaboration, Eur.Phys.J. C73 (2013) 2469
- 399) "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", CMS Collaboration, Eur.Phys.J. C73 (2013) 2604
- 400) "Search for gluino mediated bottom- and top-squark production in multijet final states in pp collisions at 8 TeV", CMS Collaboration, Phys.Lett. B725 (2013) 243-270
- 401) "Measurement of the  $W^+W^-$  Cross section in pp Collisions at  $\sqrt{s} = 7$  TeV and Limits on Anomalous  $WW\gamma$  and  $WWZ$  couplings", CMS Collaboration, Eur.Phys.J. C73 (2013) 2610
- 402) "Search for a Higgs boson decaying into a Z and a photon in pp collisions at  $\sqrt{s} = 7$  and 8 TeV", CMS Collaboration, Phys.Lett. B726 (2013) 587-609
- 403) "Measurement of the prompt  $J/\psi$  and  $\psi(2S)$  polarizations in pp collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, Phys.Lett. B727 (2013) 381-402
- 404) "Angular analysis and branching fraction measurement of the decay  $B^0 \rightarrow K^{*0}\mu^+\mu^-$ ", CMS Collaboration, Phys.Lett. B727 (2013) 77-100
- 405) "Search for a new bottomonium state decaying to  $\Upsilon(1S)\pi^+\pi^-$  in pp collisions at  $\sqrt{s} = 8$  TeV", CMS Collaboration, Phys.Lett. B727 (2013) 57-76
- 406) "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", CMS Collaboration, JHEP 1312 (2013) 039
- 407) "Jet and underlying event properties as a function of charged-particle multiplicity in proton-proton collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, Eur.Phys.J. C73 (2013) 2674
- 408) "Measurement of the differential and double-differential Drell-Yan cross sections in proton-proton collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, JHEP 1312 (2013) 030
- 409) "Search for pair production of third-generation leptoquarks and top squarks in pp collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, Phys.Rev.Lett. 110 (2013) 081801

- 410) "Measurement of associated production of vector bosons and top quark-antiquark pairs at  $\sqrt{s} = 7$  TeV", CMS Collaboration, Phys.Rev.Lett. 110 (2013) 172002
- 411) "Studies of jet mass in dijet and W/Z + jet events", CMS Collaboration, JHEP 1305 (2013) 090
- 412) "Tracking performance of a single crystal and a polycrystalline diamond pixel detector", Testbeam Sensor Group in CMS, JINST 8 (2013) P06006
- 413) "Measurement of masses in the ttbar system by kinematic endpoints in pp collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, Eur.Phys.J. C73 (2013) 2494
- 414) "Observation of a new boson with mass near 125 GeV in pp collisions at  $\sqrt{s} = 7$  and 8 TeV", CMS Collaboration, JHEP 1306 (2013) 081
- 415) "Search for microscopic black holes in pp collisions at  $\sqrt{s} = 8$  TeV", CMS Collaboration, JHEP 1307 (2013) 178
- 416) "Measurement of the  $\Lambda_b^0$  lifetime in pp collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, JHEP 07 (2013) 163
- 417) "Determination of the top-quark pole mass and strong coupling constant from the t t-bar production cross section in pp collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration Phys.Lett. B728 (2014) 496-517, Erratum-ibid. B728 (2014) 526-528 418) "Study of the production of charged pions, kaons, and protons in pPb collisions at  $\sqrt{s_{NN}} = 5.02$  TeV", CMS Collaboration, Eur.Phys.J. C74 (2014) 6, 2847
- 419) "Measurement of the top-quark mass in all-jets ttbar events in pp collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, Eur.Phys.J. C74 (2014) 4, 2758
- 420) "Study of exclusive two-photon production of  $W^+W^-$  in pp collisions at  $\sqrt{s} = 7$  TeV and constraints on anomalous quartic gauge couplings", CMS Collaboration, JHEP 1307 (2013) 116
- 421) "Searches for long-lived charged particles in pp collisions at  $\sqrt{s} = 7$  and 8 TeV", CMS Collaboration, JHEP 1307 (2013) 122
- 422) "Multiplicity and transverse momentum dependence of two- and four-particle correlations in pPb and PbPb collisions", CMS Collaboration, Phys.Lett. B724 (2013) 213-240
- 423) "Measurement of the  $W\gamma$  and  $Z\gamma$  inclusive cross sections in pp collisions at  $\sqrt{s} = 7$  TeV and limits on anomalous triple gauge boson couplings", CMS Collaboration, Phys.Rev. D89 (2014) 9, 092005
- 424) "Search for supersymmetry in hadronic final states with missing transverse energy using the variables AlphaT and b-quark multiplicity in pp collisions at 8 TeV", CMS Collaboration, Eur.Phys.J. C73 (2013) 2568
- 425) "Measurement of neutral strange particle production in the underlying event in proton-proton collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, Phys.Rev. D88 (2013) 052001

- 426) "Measurement of the B(s) to mu+ mu- branching fraction and search for B0 to  $\mu^+\mu^-$  with the CMS Experiment", CMS Collaboration, Phys.Rev.Lett. 111 (2013) 101804
- 427) "Energy calibration and resolution of the CMS electromagnetic calorimeter in pp collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, JINST 8 (2013) P09009
- 428) "Observation of a peaking structure in the  $J/\psi\phi$  mass spectrum from  $B^\pm J/\psi\phi K^\pm$  decays", CMS Collaboration, Phys.Lett. B734 (2014) 261-281
- 429) "Measurement of the hadronic activity in events with a Z and two jets and extraction of the cross section for the electroweak production of a Z with two jets in pp collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, JHEP 1310 (2013) 101
- 430) "Measurement of the W-boson helicity in top-quark decays from ttbar production in lepton+jets events in pp collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, JHEP 1310 (2013) 167
- 431) "Measurement of the production cross section for  $Z\gamma \rightarrow \nu\bar{\nu}\gamma$  in pp collisions at  $\sqrt{s} = 7$  TeV and limits on ZZ $\gamma$  and Z $\gamma\gamma$  triple gauge boson couplings", CMS Collaboration, JHEP 1310 (2013) 164
- 432) "Modification of jet shapes in PbPb collisions at  $\sqrt{s_{NN}} = 2.76$  TeV", CMS Collaboration, Phys.Lett. B730 (2014) 243-263
- 433) "Measurement of associated W + charm production in pp collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, JHEP 1402 (2014) 013
- 434) "Search for baryon number violation in top quark decays", CMS Collaboration, Phys.Lett. B731 (2014) 173-196
- 435) "Search for the standard model Higgs boson produced in association with a W or a Z boson and decaying to bottom quarks", CMS Collaboration, Phys.Rev. D89 (2014) 1, 012003
- 436) "Measurement of higher-order harmonic azimuthal anisotropy in PbPb collisions at a nucleon-nucleon center-of-mass energy of 2.76 TeV", CMS Collaboration, Phys.Rev. C89 (2014) 4, 044906
- 437) "Search for a non-standard-model Higgs boson decaying to a pair of new light bosons in four-muon final states", CMS Collaboration, Phys.Lett. B726 (2013) 564-586
- 438) "The performance of the CMS muon detector in proton-proton collisions at  $\sqrt{s} = 7$  TeV at the LHC", CMS Collaboration, JINST 8 (2013) P11002
- 439) "Searches for light- and heavy-flavour three-jet resonances in pp collisions at  $\sqrt{s} = 8$  TeV", CMS Collaboration, Phys.Lett. B730 (2014) 193-214
- 440) "Search for top-squark pair production in the single-lepton final state in pp collisions at  $\sqrt{s} = 8$  TeV", CMS Collaboration, Eur.Phys.J. C73 (2013) 2677
- 441) "Measurements of ttbar spin correlations and top-quark polarization using dilepton final states in pp collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, Phys.Rev.Lett. 112 (2014) 18, 182001

- 442) "Search for supersymmetry in pp collisions at  $\sqrt{s} = 8$  TeV in events with a single lepton, large jet multiplicity, and multiple b jets", CMS Collaboration, Phys.Lett. B733 (2014) 328-353
- 443) "Search for pair production of excited top quarks in the lepton+jets final state", CMS Collaboration, JHEP 1406 (2014) 125
- 444) "Probing color coherence effects in pp collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, Eur.Phys.J. C74 (2014) 6, 2901
- 445) "Measurement of the triple-differential cross section for photon+jets production in proton-proton collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, JHEP 1406 (2014) 009
- 446) "Search for new physics in events with same-sign dileptons and jets in pp collisions at  $\sqrt{s} = 8$  TeV", CMS Collaboration, JHEP 1401 (2014) 163, Erratum-ibid. 1501 (2015) 014
- 447) "Inclusive search for a vector-like T quark with charge 2/3 in pp collisions at  $\sqrt{s} = 8$  TeV", CMS Collaboration, Phys.Lett. B729 (2014) 149-171
- 448) "Measurement of Higgs boson production and properties in the WW decay channel with leptonic final states", CMS Collaboration, JHEP 1401 (2014) 096
- 449) "Studies of azimuthal dihadron correlations in ultra-central PbPb collisions at  $\sqrt{s_{NN}} = 2.76$  TeV", CMS Collaboration, JHEP 1402 (2014) 088
- 450) "Search for top-quark partners with charge 5/3 in the same-sign dilepton final state", CMS Collaboration, Phys.Rev.Lett. 112 (2014) 17, 171801
- 451) "Search for top squark and higgsino production using diphoton Higgs boson decays", CMS Collaboration, Phys.Rev.Lett. 112 (2014) 161802
- 452) "Search for flavor-changing neutral currents in top-quark decays  $t \rightarrow Zq$  in pp collisions at  $\sqrt{s} = 8$  TeV", CMS Collaboration, Phys.Rev.Lett. 112 (2014) 17, 171802
- 453) "Evidence of b-jet quenching in PbPb collisions at  $\sqrt{s_{NN}} = 2.76$  TeV", CMS Collaboration, Phys.Rev.Lett. 113 (2014) 13, 132301
- 454) "Measurement of the properties of a Higgs boson in the four-lepton final state", CMS Collaboration, Phys.Rev. D89 (2014) 9, 092007
- 455) "Study of double parton scattering using W + 2-jet events in proton-proton collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, JHEP 1403 (2014) 032
- 456) "Measurement of the muon charge asymmetry in inclusive  $pp \rightarrow W + X$  production at  $\sqrt{s} = 7$  TeV and an improved determination of light parton distribution functions", CMS Collaboration, Phys.Rev. D90 (2014) 3, 032004
- 457) "Event activity dependence of Y(nS) production in  $\sqrt{s_{NN}} = 5.02$  TeV pPb and  $\sqrt{s_{NN}} = 2.76$  TeV pp collisions", CMS Collaboration, JHEP 1404 (2014) 103
- 458) "Measurement of four-jet production in proton-proton collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, Phys.Rev. D89 (2014) 9, 092010

- 459) "Measurement of the production cross section for a W boson and two b jets in pp collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, Phys.Lett. B735 (2014) 204-225
- 460) "Measurement of the ttbar production cross section in the dilepton channel in pp collisions at  $\sqrt{s} = 8$  TeV", CMS Collaboration, JHEP 1402 (2014) 024, Erratum-ibid. 1402 (2014) 102
- 461) "Observation of the associated production of a single top quark and a W boson in pp collisions at  $\sqrt{s} = 8$  TeV", CMS Collaboration, Phys.Rev.Lett. 112 (2014) 23, 231802
- 462) "Studies of dijet pseudorapidity distributions and transverse momentum balance in pPb collisions at  $\sqrt{s_{NN}} = 5.02$  TeV", CMS Collaboration, Eur.Phys.J. C74 (2014) 7, 2951
- 463) "Evidence for the 125 GeV Higgs boson decaying to a pair of tau leptons", CMS Collaboration, JHEP 1405 (2014) 104
- 464) "Planning the Future of U.S. Particle Physics (Snowmass 2013): Chapter 8: Instrumentation Frontier", Instrumentation Group, FERMILAB-CONF-14-019-CH08, submitted for publication e-Print: arXiv:1401.6116
- 465) "Evidence for the direct decay of the 125 GeV Higgs boson to fermions", CMS Collaboration, Nature Phys. 10 (2014) 557-560.
- 466) "Measurement of the production cross sections for a Z boson and one or more b jets in pp collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, JHEP 1406 (2014) 120
- 467) "Search for  $W' \rightarrow tb$  decays in the lepton + jets final state in pp collisions at  $\sqrt{s} = 8$  TeV", CMS Collaboration, JHEP 1405 (2014) 108
- 468) "Measurements of the ttbar charge asymmetry using the dilepton decay channel in pp collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, JHEP 1404 (2014) 191
- 469) "Search for new physics in the multijet and missing transverse momentum final state in proton-proton collisions at  $\sqrt{s} = 8$  TeV", CMS Collaboration, JHEP 1406 (2014) 055
- 470) "Testbeam and Laboratory Characterization of CMS 3D Pixel Sensors", M.Bubna et al, JINST 9 (2014) C07019
- 471) "Alignment of the CMS tracker with LHC and cosmic ray data", CMS Collaboration, JINST 9 (2014) P06009
- 472) "Measurement of WZ and ZZ production in pp collisions at  $\sqrt{s} = 8$  TeV in final states with b-tagged jets", CMS Collaboration, Eur.Phys.J. C74 (2014) 8, 2973
- 473) "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", CMS Collaboration, JHEP 1406 (2014) 090
- 474) "Search for invisible decays of Higgs bosons in the vector boson fusion and associated ZH production modes", CMS Collaboration, Eur.Phys.J. C74 (2014) 8, 2980
- 475) "Measurement of the ratio  $B(t \rightarrow Wb)/B(t \rightarrow Wq)$  in pp collisions at  $\sqrt{s} = 8$  TeV", CMS Collaboration, Phys.Lett. B736 (2014) 33

- 476) "Measurement of jet multiplicity distributions in ttbar production in pp collisions at  $\sqrt{s} = 7 \text{ TeV}$ ", CMS Collaboration, Eur.Phys.J. C74 (2014) 8, 3014
- 477) "Search for  $WW\gamma$  and  $WZ\gamma$  production and constraints on anomalous quartic gauge couplings in pp collisions at  $\sqrt{s} = 8 \text{ TeV}$ ", CMS Collaboration, Phys.Rev. D90 (2014) 3, 032008
- 478) "Search for anomalous production of events with three or more leptons in pp collisions at  $\sqrt{s} = 8 \text{ TeV}$ ", CMS Collaboration, Phys.Rev. D90 (2014) 3, 032006
- 479) "Measurement of pseudorapidity distributions of charged particles in proton-proton collisions at  $\sqrt{s} = 8 \text{ TeV}$  by the CMS and TOTEM experiments", CMS and TOTEM Collaborations, Eur.Phys.J. C74 (2014) 10, 3053
- 480) "Search for massive resonances in dijet systems containing jets tagged as W or Z boson decays in pp collisions at  $\sqrt{s} = 8 \text{ TeV}$ ", CMS Collaboration, JHEP 1408 (2014) 173
- 481) "Search for massive resonances decaying into pairs of boosted bosons in semi-leptonic final states at  $\sqrt{s} = 8 \text{ TeV}$ ", CMS Collaboration, JHEP 1408 (2014) 174
- 482) "Constraints on the Higgs boson width from off-shell production and decay to Z-boson pairs", CMS Collaboration, Phys.Lett. B736 (2014) 64
- 483) "Search for top-squark pairs decaying into Higgs or Z bosons in pp collisions at  $\sqrt{s} = 8 \text{ TeV}$ ", CMS Collaboration, Phys.Lett. B736 (2014) 64
- 484) "Search for supersymmetry with razor variables in pp collisions at  $\sqrt{s} = 7 \text{ TeV}$ ", CMS Collaboration, Phys.Rev. D90 (2014) 11, 112001
- 485) "Description and performance of track and primary-vertex reconstruction with the CMS tracker", CMS Collaboration, JINST 9 (2014) 10, P10009
- 486) "Measurement of differential cross sections for the production of a pair of isolated photons in pp collisions at  $\sqrt{s} = 7 \text{ TeV}$ ", CMS Collaboration, Eur.Phys.J. C74 (2014) 11, 3129
- 487) "Searches for electroweak production of charginos, neutralinos, and sleptons decaying to leptons and W, Z, and Higgs bosons in pp collisions at 8 TeV", CMS Collaboration, Eur.Phys.J. C74 (2014) 11, 3036
- 488) "Search for jet extinction in the inclusive jet-pt spectrum from proton-proton collisions at  $\sqrt{s} = 8 \text{ TeV}$ ", CMS Collaboration, Phys.Rev. D90 (2014) 3, 032005
- 489) "Measurement of the pp  $\rightarrow ZZ$  production cross section and constraints on anomalous triple gauge couplings in four-lepton final states at  $\sqrt{s} = 8 \text{ TeV}$ ", CMS Collaboration, Phys.Lett. B736 (2014) 64
- 490) "Measurement of the ratio of inclusive jet cross sections using the anti-kT algorithm with radius parameters R=0.5 and 0.7 in pp collisions at  $\sqrt{s} = 7 \text{ TeV}$ ", CMS Collaboration, Phys.Rev. D90 (2014) 7, 072006
- 491) "Measurement of prompt  $J/\psi$  pair production in pp collisions at  $\sqrt{s} = 7 \text{ TeV}$ ", CMS Collaboration, JHEP 1409 (2014) 094

- 492) "Measurement of jet fragmentation in PbPb and pp collisions at  $\sqrt{s_{NN}} = 2.76$  TeV", CMS Collaboration, Phys.Rev. C90 (2014) 2, 024908
- 493) "Pre- and post-irradiation performance of FBK 3D silicon pixel detectors for CMS", A. Krzywda et al, Nucl. Instrum. Meth. A763 (2014) 404-411
- 494) "Search for excited quarks in the  $\gamma +$ jet final state in proton-proton collisions at  $\sqrt{s} = 8$  TeV", CMS Collaboration, Phys.Lett. B738 (2014) 274-293
- 495) "Differential cross section measurements for the production of a W boson in association with jets in proton-proton collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, Phys.Lett. B741 (2015) 12-37
- 496) "Measurement of top quark-antiquark pair production in association with a W or Z boson in pp collisions at  $\sqrt{s} = 8$  TeV", CMS Collaboration, Eur.Phys.J. C74 (2014) 9, 3060
- 497) "Observation of the diphoton decay of the Higgs boson and measurement of its properties", CMS Collaboration, Eur.Phys.J. C74 (2014) 10, 3076
- 498) "Study of hadronic event-shape variables in multijet final states in pp collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, JHEP 1410 (2014) 87
- 499) "Search for new resonances decaying via WZ to leptons in proton-proton collisions at  $\sqrt{s} = 8$  TeV", CMS Collaboration, Phys.Lett. B740 (2014) 83-104
- 500) "Search for heavy neutrinos and W bosons with right-handed couplings in proton-proton collisions at  $\sqrt{s} = 8$  TeV", CMS Collaboration, Eur.Phys.J. C74 (2014) 11, 3149
- 501) "Measurement of the ttbar production cross section in pp collisions at  $\sqrt{s} = 8$  TeV in dilepton final states containing one  $\tau$  lepton", CMS Collaboration, Phys.Lett. B739 (2014) 23-43
- 502) "Search for pair production of third-generation scalar leptoquarks and top squarks in proton-proton collisions at  $\sqrt{s} = 8$  TeV", CMS Collaboration, Phys.Lett. B739 (2014) 229
- 503) "Search for the associated production of the Higgs boson with a top-quark pair", CMS Collaboration, JHEP 1409 (2014) 087, Erratum-ibid. 1410 (2014) 106
- 504) "Search for physics beyond the standard model in final states with a lepton and missing transverse energy in proton-proton collisions at  $\sqrt{s} = 8$  TeV", CMS Collaboration, Phys.Rev. D91 (2015) 9, 092005
- 505) "Measurements of jet multiplicity and differential production cross sections of Z+jets events in proton-proton collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, Phys.Rev. D91 (2015) 5, 052008
- 506) "Search for neutral MSSM Higgs bosons decaying to a pair of tau leptons in pp collisions", CMS Collaboration, JHEP 1410 (2014) 160
- 507) "Search for dark matter, extra dimensions, and unparticles in monojet events in proton-proton collisions at  $\sqrt{s} = 8$  TeV", CMS Collaboration, Eur.Phys.J. C75 (2015) 5, 235

- 508) “Searches for electroweak neutralino and chargino production in channels with Higgs, Z, and W bosons in pp collisions at 8 TeV”, CMS Collaboration, Phys.Rev. D90 (2014) 9, 092007
- 509) “Long-range two-particle correlations of strange hadrons with charged particles in pPb and PbPb collisions at LHC energies”, CMS Collaboration, Phys.Lett. B742 (2015) 200-224
- 510) “Search for “Displaced Supersymmetry” in events with an electron and a muon with large impact parameters”, CMS Collaboration, Phys. Rev. Lett. 114 (2015) 6, 061801
- 511) “Measurement of the production cross section ratio  $\sigma(\chi_{b2}(1P))/\sigma(\chi_{b1}(1P))$  in pp collisions at  $\sqrt{s} = 8$  TeV”, CMS Collaboration, Phys. Lett. B743 (2015) 383-402
- 512) “Search for standard model production of four top quarks in the lepton + jets channel in pp collisions at  $\sqrt{s} = 8$  TeV”, CMS Collaboration, JHEP 1411 (2014) 154
- 513) “Search for monotop signatures in proton-proton collisions at  $\sqrt{s} = 8$  TeV”, CMS Collaboration, Phys.Rev.Lett. 114 (2015) 10,101801
- 514) “Measurement of the W boson helicity in events with a single reconstructed top quark in pp collisions at  $\sqrt{s} = 8$  TeV”, CMS Collaboration, JHEP 1501 (2015) 053
- 515) “Measurement of prompt psi(2S) to J/psi yield ratios in PbPb and pp collisions at  $\sqrt{s_{NN}} = 2.76$  TeV”, CMS Collaboration, Phys.Rev.Lett. 113 (2014) 262301
- 516) “Searches for heavy Higgs bosons in two-Higgs-doublet models and for t to ch decay using multilepton and diphoton final states in pp collisions at 8 TeV”, CMS Collaboration, Phys.Rev. D90 (2014) 11, 112013
- 517) “Measurement of electroweak production of two jets in association with a Z boson in proton-proton collisions at  $\sqrt{s} = 8$  TeV”, CMS Collaboration, Eur.Phys.J. C75 (2015) 2, 66
- 518) “Identification techniques for highly boosted W bosons that decay into hadrons”, CMS Collaboration, JHEP 1412 (2014) 017
- 519) “Study of Z production in PbPb and pp collisions at  $\sqrt{s_{NN}} = 2.76$  TeV in the dimuon and dielectron decay channels”, CMS Collaboration, JHEP 1503 (2015) 022
- 520) “Measurement of the ratio of the production cross sections times branching fractions for  $B_c$  in pp collisions at  $\sqrt{s} = 7$  TeV”, CMS Collaboration, JHEP 1501 (2015) 063
- 521) “Study of vector boson scattering and search for new physics in events with two same-sign leptons and two jets”, CMS Collaboration, Phys.Rev.Lett 114 (2015) 5, 051801
- 522) “Search for a standard model-like Higgs boson in the  $\mu^+\mu^-$  and  $e^+e^-$  decay channels at the LHC”, Phys. Lett. B744 (2015) 184-207
- 523) “Constraints on parton distribution functions and extraction of the strong coupling constant from the inclusive jet cross section in pp collisions at  $\sqrt{s} = 7$  TeV”, CMS Collaboration, Eur.Phys.J. C75 (2015) 6,288

- 524) "Search for new phenomena in monophoton final states in proton-proton collisions at  $\sqrt{s} = 8$  TeV", CMS Collaboration, Physics Lett. B755 (2016) 102-124
- 525) "Performance of the missing transverse energy reconstruction by the CMS experiment in  $\sqrt{s} = 8$  TeV pp data", CMS Collaboration, JINST 10 (2015) 02, P02006
- 526) "Search for quark contact interactions and extra spatial dimensions using dijet angular distributions in proton-proton collisions at  $\sqrt{s} = 8$  TeV", CMS Collaboration, Phys.Lett B746 (2015) 79-99
- 527) "Constraints on the spin-parity and anomalous HVV couplings of the Higgs boson in proton collisions at 7 and 8 TeV", CMS Collaboration, Phys.Rev.D92 (2015) 1,012004
- 528) "Observation of the rare  $B_s^0 \rightarrow \mu^+ \mu^-$  decay from the combined analysis of CMS and LHCb data", CMS and LHCb Collaborations, Nature 522 (2015) 68-72
- 529) "Search for long-lived particles that decay into final states containing two electrons or two muons in proton-proton collisions at  $\sqrt{s} = 8$  TeV", CMS Collaboration, Phys.Rev D91 (2015) 5, 052012
- 530) "Search for stealth supersymmetry in events with jets, either photons or leptons, and low missing transverse momentum in pp collisions at 8 TeV" CMS Collaboration, Phys.Lett. B743 (2015) 503-525
- 531) "Measurements of differential and double-differential Drell-Yan cross sections in proton-proton collisions at  $\sqrt{s} = 8$  TeV", CMS Collaboration, Eur.Phys.J. C75 (2015) 4, 147
- 532) "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", CMS Collaboration, Eur.Phys.J. C75 (2015) 5, 186
- 533) "Searches for supersymmetry based on events with b jets and four W bosons in pp collisions at 8 TeV", CMS Collaboration, Phys.Lett. B745 (2015) 5-28
- 534) "Search for physics beyond the standard model in dilepton mass spectra in proton-proton collisions at  $\sqrt{s} = 8$  TeV", CMS Collaboration, JHEP 1504 (2015) 025
- 535) "Search for pair-produced resonances decaying to jet pairs in proton-proton collisions at  $\sqrt{s} = 8$  TeV", CMS Collaboration, Phys.Lett B747 (2015) 98-119
- 536) "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 TeV", CMS Collaboration, Eur.Phys.J. C75 (2015) 5, 212
- 537) "Search for resonances and quantum black holes using dijet mass spectra in proton-proton collisions at  $\sqrt{s} = 8$  TeV", CMS Collaboration, Phys.Rev. D91 (2015) 5, 052009
- 538) "Search for heavy Majorana neutrinos in  $\mu^\pm \mu^\pm + \text{jets}$  events in proton-proton collisions at  $\sqrt{s} = 8$  TeV", CMS Collaboration, Phys.Lett. B748 (2015) 144-166
- 539) "Search for decays of stopped long-lived particles produced in proton-proton collisions at  $\sqrt{s} = 8$  TeV", CMS Collaboration, Eur.Phys. C75 (2015) 4,151

- 540) "Radiation tolerance of 65nm CMOS Transistors", M. Krohn, B. Bentele, J.P. Cumalat, S.R. Wagner, D.C. Christian, G. Deptuch, F. Fahim, J. Hoff, A. Shenai, JINST 10 (2015) 12, P12007
- 541) "Search for disappearing tracks in proton-proton collisions at  $\sqrt{s}=8$  TeV", CMS Collaboration, JHEP 1501 (2015) 096
- 542) "Search for long-lived neutral particles decaying to quark-antiquark pairs in proton-proton collisions at  $\sqrt{s}=8$  TeV", CMS Collaboration, Phys.Rev. D91 (2015) 1,012007
- 543) "Measurement of the ratio  $B(B[0,s] \text{ to } J/\psi f0(980)) / B(B[0,s] \text{ to } J/\psi \phi(1020))$  in pp collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, Phys. Lett. B756 (2016) 84-102
- 544) "Measurements of the  $\Upsilon(1S)$ ,  $\Upsilon(2S)$ , and  $\Upsilon(3S)$  differential cross sections in pp collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, Phys. Lett. B749 (2015) 14-34.
- 545) "Search for supersymmetry using razor variables in events with b-tagged jets in pp collisions at  $\sqrt{s}=8$  TeV", CMS Collaboration, Phys.Rev. D91 (2015) 052018
- 546) "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", CMS Collaboration, Eur.Phys.J. C75 (2015) 6,251
- 547) "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", CMS Collaboration, Eur.Phys.J. C75 (2015) 7, 325
- 548) "Performance of electron reconstruction and selection with the CMS detector in proton-proton collisions at  $\sqrt{s}=8$  TeV", CMS Collaboration, JINST 10 (2015) 06, P06005
- 549) "Performance of photon reconstruction and identification with the CMS detector in proton-proton collisions at  $\sqrt{s}=8$  TeV", CMS Collaboration, JINST 10 (2015) 08, P08010
- 550) "Measurement of  $J/\Psi$  and  $\Psi(2S)$  Prompt Double-Differential Cross Sections in pp Collisions at  $\sqrt{s}=7$  TeV", CMS Collaboration, Phys.Rev.Lett. 114 (2015) 19, 191802
- 551) "Searches for supersymmetry using the  $M_T^2$  variable in hadronic events produced in pp collisions at 8 TeV", CMS Collaboration, JHEP 1505 (2015) 078
- 552) "Distributions of topological observables in inclusive three- and four-jet events in pp collisions at  $\sqrt{s}=7$  TeV", CMS Collaboration, Eur.Phys.J. C75 (2015) 7, 302
- 553) "Search for narrow high-mass resonances in proton-proton collisions at  $\sqrt{s}=8$  TeV decaying to a Z and a Higgs boson", CMS Collaboration, Phys.Lett. B748 (2015) 255-277
- 554) "Evidence for Collective Multiparticle Correlations in p-Pb Collisions", CMS Collaboration, Phys.Rev.Lett. 115 (2015) 1, 012301
- 555) "Nuclear effects on the transverse momentum spectra of charged particles in pPb collisions at  $\sqrt{s_{NN}}=5.02$  TeV", CMS Collaboration, Eur.Phys.J. C75 (2015) 5, 237
- 556) "Measurement of the  $Z\gamma$  production cross section in pp collisions at 8 TeV and search for anomalous triple gauge boson couplings", CMS Collaboration, JHEP 1504 (2015) 164

- 557) “Search for physics beyond the standard model in events with two leptons, jets, and missing transverse momentum in pp collisions at  $\sqrt{s} = 8$  TeV”, CMS Collaboration, JHEP 1504 (2015) 124
- 558) “Search for lepton-flavour-violating decays of the Higgs boson”, CMS Collaboration, Phys.Lett. B749 (2015) 337-362
- 559) “Study of final-state radiation in decays of Z bosons produced in pp collisions at 7 TeV”, CMS Collaboration, Phys.Rev. D91 (2015) 9, 092012
- 560) “Evidence for transverse momentum and pseudorapidity dependent event plane fluctuations in PbPb and pPb collisions”, CMS Collaboration, Phys.Rev. C92 (2015) 3, 034911
- 561) “Search for vector-like T quarks decaying to top quarks and Higgs bosons in the all-hadronic channel using jet substructure”, CMS Collaboration, JHEP 1506 (2015) 080
- 562) “Search for resonant pair production of Higgs bosons decaying to two bottom quark-antiquark pairs in proton-proton collisions at 8 TeV”, CMS Collaboration, Phys.Lett. B749 (2015) 560-582
- 563) “Measurements of the ZZ production cross sections in the  $2l2\nu$  channel in proton-proton collisions at  $\sqrt{s} = 7$  and 8 TeV and combined constraints on triple gauge couplings”, CMS Collaboration, Eur.Phys.J. C75 (2015) 10, 511
- 564) “Study of W boson production in pPb collisions at  $\sqrt{s_{NN}} = 5.02$  TeV”, CMS Collaboration, Phys.Lett. B750 (2015) 565-586
- 565) “Combined Measurement of the Higgs Boson Mass in pp Collisions at  $\sqrt{s}=7$  and 8 TeV with the ATLAS and CMS Experiments”, Phys.Rev.Lett. 114 (2015) 191803
- 566) “Searches for third-generation squark production in fully hadronic final states in proton-proton collisions at  $\sqrt{s}=8$  TeV”, CMS Collaboration, JHEP 1506 (2015) 116
- 567) “Measurement of diffraction dissociation cross sections in pp collisions at  $\sqrt{s} = 7$  TeV”, CMS Collaboration, Phys.Rev. D92 (2015) 1, 012003
- 568) “Search for third-generation scalar leptoquarks in the  $t\bar{t}$  channel in proton-proton collisions at  $\sqrt{s} = 8$  TeV”, CMS Collaboration, JHEP 1507 (2015) 042
- 569) “Search for a Higgs Boson in the Mass Range from 145 to 1000 GeV Decaying to a Pair of W or Z Bosons”, CMS Collaboration, JHEP 1510 (2015) 144
- 570) “Search for the Production of Dark Matter in Association with Top-Quark Pairs in the Single-Lepton Final State in Proton-Proton Collisions at  $\sqrt{s} = 8$  TeV”, CMS Collaboration, JHEP 1506 (2015) 121
- 571) “Measurement of the Z boson differential cross section in transverse momentum and rapidity in proton-proton collisions at 8 TeV”, CMS Collaboration, Phys.Lett. B749 (2015) 187-209
- 572) “Angular coefficients of Z bosons produced in pp collisions at 8 TeV and decaying to  $\mu^+\mu^-$  as a function of transverse momentum and rapidity”, CMS Collaboration, Phys.Rev.B750 (2015) 154

- 573) "Search for a pseudoscalar boson decaying into a Z boson and the 125 GeV Higgs boson in llbb final states", CMS Collaboration, Phys.Lett. B748 (2015) 221-243
- 574) "Trapping in irradiated p-on-n silicon sensors at fluences anticipated at the HL-LHC outer tracker", CMS Collaboration, JINST 11 (2016) no.4, P04023
- 575) "Measurement of the differential cross section for top quark pair production in pp collisions at  $\sqrt{s} = 8$  TeV", CMS Collaboration, Eur.Phys.J. C75 (2015) 11, 542
- 576) "Comparison of the  $Z/\gamma^*$ +jets to  $\gamma$  +jets cross sections in pp collisions at  $\sqrt{s} = 8$  TeV", CMS Collaboration, JHEP 1510 (2015) 128
- 577) "Search for neutral color-octet weak-triplet scalar particles in proton-proton collisions at  $\sqrt{s} = 8$  TeV", CMS Collaboration, JHEP 1509 (2015) 201
- 578) "A search for pair production of new light bosons decaying into muons", CMS Collaboration, Phys.Lett. B752 (2016) 146-168
- 579) "Search for the standard model Higgs boson produced through vector boson fusion and decaying to  $b\bar{b}$ ", CMS Collaboration, Phys.Rev. D92 (2015) 3, 032008
- 580) "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", CMS Collaboration, JHEP 1602 (2016) 145
- 581) "Search for diphoton resonances in the mass range from 150 to 850 GeV in pp collisions at  $\sqrt{s} = 8$  TeV", CMS Collaboration, Phys.Lett. B750 (2015) 494-519
- 582) "Search for resonant  $t\bar{t}$  production in proton-proton collisions at  $\sqrt{s} = 8$  TeV", CMS Collaboration, Phys.Rev. D93 (2016) 1, 012001
- 583) "Search for neutral MSSM Higgs bosons decaying into a pair of bottom quarks", CMS Collaboration, JHEP 1511 (2015) 071
- 584) "Production of leading charged particles and leading charged-particle jets at small transverse momenta in pp collisions at  $\sqrt{s} = 8$  TeV", CMS Collaboration, Phys.Rev. D92 (2015) 11, 112001
- 585) "Search for exotic decays of a Higgs boson into undetectable particles and photons", CMS Collaboration, Phys.Lett. B753 (2016) 363-388
- 586) "Search for supersymmetry with photons in pp collisions at  $\sqrt{s} = 8$  TeV", CMS Collaboration, Phys.Rev. D92 (2015) 7, 072006
- 587) "Search for a Higgs boson decaying into  $\gamma^*\gamma$  to ll gamma with low dilepton mass in pp collisions at  $\sqrt{s} = 8$  TeV", CMS Collaboration, Phys.Lett. B753 (2016) 341-362
- 588) "Inclusive and differential measurements of the t t-bar charge asymmetry in pp collisions at  $\sqrt{s} = 8$  TeV", CMS Collaboration, Phys.Lett. B757 (2016) 154-179
- 589) "Measurement of the  $W^+ W^-$  cross section in pp collisions at  $\sqrt{s} = 8$  TeV and limits on anomalous gauge couplings", CMS Collaboration, Eur.Phys.J. C76 (2016) no.7, 401

- 590) "Impact of low-dose electron irradiation on n(+)p silicon strip sensors", CMS Tracker Collaboration, NIMA 803 (2015) 100-112
- 591) "Pseudorapidity distribution of charged hadrons in proton-proton collisions at  $\sqrt{s} = 13 \text{ TeV}$ ", CMS Collaboration, Phys.Lett. B751 (2015) 143-163
- 592) "Limits on the Higgs boson lifetime and width from its decay to four charged leptons", CMS Collaboration, Phys.Rev. D92 (2015) 7, 072010
- 593) "Search for pair-produced vector-like B quarks in proton-proton collisions at  $\sqrt{s} = 8 \text{ TeV}$ ", CMS Collaboration, JHEP 1509 (2015) 137
- 594) "Measurement of the underlying event activity using charged particle jets in proton-proton collisions at 2.76 TeV", CMS Collaboration, JHEP 1509 (2015) 137
- 595) "Measurement of the CP-violating weak phase phi[s] and the decay width difference DeltaGamma[s] using the Bs to J/Psi phi(1020) decay channel in pp collisions at  $\sqrt{s} = 8 \text{ TeV}$ ", CMS Collaboration, Phys.Lett. B757 (2016) 97-120
- 596) "Angular analysis of the decay B0 to K\*0 mu mu from pp collisions at  $\sqrt{s} = 8 \text{ TeV}$ ", CMS Collaboration, Phys.Lett. B753 (2016) 424-448
- 597) "Search for supersymmetry with a photon, a lepton, and missing transverse momentum in pp collisions at  $\sqrt{s} = 8 \text{ TeV}$ ", CMS Collaboration, Phys.Lett. B757 (2016) 6-31
- 598) "Search for neutral MSSM Higgs bosons decaying to  $\mu^+ \mu^-$  in pp collisions at  $\sqrt{s} = 7$  and 8 TeV", CMS Collaboration, Phys.Lett. B752 (2016) 221-246
- 599) "Measurement of the charge asymmetry in top quark pair production in pp collisions at  $\sqrt{s} = 8 \text{ TeV}$  using a template method", CMS Collaboration, Phys.Rev. D93 (2016) no.3, 034014
- 600) "Search for W' decaying to tau lepton and neutrino in proton-proton collisions at  $\sqrt{s} = 8 \text{ TeV}$ ", CMS Collaboration, Phys.Lett. B755 (2016) 196-216
- 601) "Study of B meson production in pPb collisions at  $\sqrt{s_{NN}}=5.02 \text{ TeV}$ ", CMS Collaboration, Phys.Rev.Lett. 116 (2016) no.3, 032301
- 602) "Search for supersymmetry in the vector-boson fusion topology in proton-proton collisions at  $\sqrt{s} = 8 \text{ TeV}$ ", CMS Collaboration, JHEP 1511 (2015) 189
- 603) "Search for a charged Higgs boson in pp collisions at  $\sqrt{s} = 8 \text{ TeV}$ ", CMS Collaboration, JHEP 1511 (2015) 018
- 604) "Measurement of differential cross sections for Higgs boson production in the diphoton decay channel in pp collisions at  $\sqrt{s} = 8 \text{ TeV}$ ", CMS Collaboration, Eur.Phys.J. C76 (2016) 1, 13
- 605) "Search for pair production of first and second generation leptoquarks in proton-proton collisions at  $\sqrt{s} = 8 \text{ TeV}$ ", CMS Collaboration, Phys.Rev. D93 (2016) no.3, 032004
- 606) "Search for single production of scalar leptoquarks in proton-proton collisions at  $\sqrt{s} = 8 \text{ TeV}$ ", CMS Collaboration, Phys.Rev. D93 (2016) no.3, 032005

- 607) "Measurement of the inelastic cross section in proton-lead collisions at a centre-of-mass energy per nucleon pair of 5.02 TeV", CMS Collaboration, Phys.Lett. B759 (2016) 641-662
- 608) "Measurement of the top quark mass using proton-proton data at  $\sqrt{s} = 7$  and 8 TeV", CMS Collaboration, Phys.Rev. D93 (2016) no.9, 092006
- 609) "Search for vector-like charge 2/3 T quarks in proton-proton collisions at  $\sqrt{s} = 8$  TeV", CMS Collaboration, Phys.Rev. D93 (2016) no.1, 012003
- 610) "Search for W' to tb in proton-proton collisions at  $\sqrt{s} = 8$  TeV", CMS Collaboration, JHEP 1602 (2016) 122
- 611) "Measurement of the ttbar production cross section in the all-jets final state in pp collisions at  $\sqrt{s} = 8$  TeV", CMS Collaboration, Eur.Phys.J. C76 (2016) no.3, 128
- 612) "Search for the production of an excited bottom quark decaying to tW in proton-proton collisions at  $\sqrt{s} = 8$  TeV", CMS Collaboration, JHEP 1601 (2016) 166
- 613) "Search for the associated production of a Higgs boson with a single top quark in proton-proton collisions at  $\sqrt{s} = 8$  TeV", CMS Collaboration, JHEP 1606 (2016) 177
- 614) "Measurement of transverse momentum relative to dijet systems in PbPb and pp collisions at  $\sqrt{s_{NN}} = 2.76$  TeV", CMS Collaboration, JHEP 1601 (2016) 006
- 615) "Observation of top quark pairs produced in association with a vector boson in pp collisions at  $\sqrt{s} = 8$  TeV", CMS Collaboration, JHEP 1601 (2016) 096
- 616) "Searches for a heavy scalar boson H decaying to a pair of 125 GeV Higgs bosons hh or for a heavy pseudoscalar boson A decaying to Zh, in the final states with h to tau tau", CMS Collaboration, Phys.Lett. B755 (2016) 217-244
- 617) "Measurement of long-range near-side two-particle angular correlations in pp collisions at  $\sqrt{s} = 13$  TeV", CMS Collaboration, Phys.Rev. Lett. 116 (2016) no.17, 172302
- 618) "Measurement of t-tbar production with additional jet activity, including b quark jets, in the dilepton channel using pp collisions at  $\sqrt{s} = 8$  TeV", CMS Collaboration, Eur.Phys.J. C76 (2016) no.7, 379
- 619) "Transverse momentum spectra of b jets in pPb collisions at  $\sqrt{s_{NN}} = 5.02$  TeV", CMS Collaboration, Phys.Lett. B754 (2016) 59-80
- 620) "Search for a light charged Higgs boson decaying to c-sbar in pp collisions at  $\sqrt{s} = 8$  TeV", CMS Collaboration, JHEP 1512 (2015) 178
- 621) "Measurement of the top quark pair production cross section in proton-proton collisions at  $\sqrt{s} = 13$  TeV", CMS Collaboration, Phys.Rev. Lett. 116 (2016) no.5, 052002
- 622) "Search for a very light NMSSM Higgs boson produced in decays of the 125 GeV scalar boson and decaying into tau leptons in pp collisions at  $\sqrt{s} = 8$  TeV", CMS Collaboration, JHEP 1601 (2016) 079

- 623) "Reconstruction and identification of tau lepton decays to hadrons and tau neutrino at CMS", CMS Collaboration, JINST 11 (2016) no.01, P01019
- 624) "Search for excited leptons in proton-proton collisions at  $\sqrt{s} = 8$  TeV", CMS Collaboration, JHEP 1603 (2016) 125
- 625) "Measurement of top quark polarisation in t-channel singe top quark production", CMS Collaboration, JHEP 1604 (2016) 073
- 626) "Search for a low-mass pseudoscalar Higgs boson produced in association with a b-bbar pair in pp collisions at  $\sqrt{s} = 8$  TeV", CMS Collaboration, Phys.Lett. B758 (2016) 296-320
- 627) "Measurement of spin correlations in t-tbar production using the matrix element method in the muon+jets final state in pp collisions at  $\sqrt{s}= 8$  TeV", CMS Collaboration, Phys.Lett. B758 (2016) 321-346
- 628) "Search for dark matter and unparticles produced in association with a Z boson in proton-proton collisions at  $\sqrt{s} = 8$  TeV", CMS Collaboration, Phys.Rev. D93 (2016) no.5, 052011
- 629) "Event generator tunes obtained from underlying event and multiparton scattering measurements", CMS Collaboration, Eur.Phys.J. C76 (2016) no.3, 155
- 630) "Search for narrow resonances decaying to dijets in proton-proton collisions at  $\sqrt{s} = 13$  TeV", CMS Collaboration, Phys.Rev.Lett. 116 (2016) no.7, 071801
- 631) "Measurement of the inclusive jet cross section in pp collisions at  $\sqrt{s} = 2.76$  TeV", CMS Collaboration, Eur.Phys.J. C76 (2016) no.5, 265
- 632) "Study of Z boson production in pPb collisions at  $\sqrt{s_{NN}} = 5.02$  TeV", CMS Collaboration, Phys.Lett. B759 (2016) 36-57
- 633) "Search for supersymmetry in events with soft leptons, low jet multiplicity, and missing transverse momentum in proton-proton collisions at  $\sqrt{s} = 8$  TeV", CMS Collaboration, Phys.Lett. B759 (2016) 9-35
- 634) "Measurement of differential and integrated fiducial cross sections for Higgs boson production in the four-lepton decay channel in pp collisions at  $\sqrt{s} = 7$  and 8 TeV", CMS Collaboration, JHEP 1604 (2016) 005
- 635) "Correlations between jets and charged particles in PbPb and pp collisions at  $\sqrt{s_{NN}} = 2.76$  TeV", CMS Collaboration, JHEP 1602 (2016) 156
- 636) "Measurements of t-tbar spin correlations and top quark polarization using dilepton final states in pp collisions at  $\sqrt{s} = 8$  TeV", CMS Collaboration, Phys.Rev. D93 (2015) no.5, 052007
- 637) "Measurement of inclusive jet production and nuclear modifications in pPb collisions at  $\sqrt{s_{NN}} = 5.02$  TeV", CMS Collaboration, Eur.Phys.J. C76 (2016) no.7, 372
- 638) "Forward-backward asymmetry of Drell-Yan lepton pairs in pp collisions at  $\sqrt{s} = 8$  TeV", CMS Collaboration, Eur.Phys.J. C76 (2016) no.6, 325

- 639) "Search for massive WH resonances decaying into the l nu b anti-b final state at  $\sqrt{s} = 8$  TeV", CMS Collaboration, Eur.Phys.J. C76 (2016) no.5, 237
- 640) "Azimuthal decorrelation of jets widely separated in rapidity in pp collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, JHEP 1608 (2016) 139
- 641) "Search for supersymmetry in pp collisions at  $\sqrt{s} = 8$  TeV in final states with boosted W bosons and b jets using razor variables", CMS Collaboration, Phys.Rev. D93 (2015) no.9, 092009
- 642) "Search for direct pair production of scalar top quarks in the single- and dilepton channels in proton-proton collisions at  $\sqrt{s} = 8$  TeV", CMS Collaboration, JHEP 1607 (2016) 027
- 643) "Combined search for anomalous pseudoscalar HVV couplings in VH production and H to VV decay", CMS Collaboration, Phys.Lett. B759 (2016) 672-696
- 644) "Search for R-parity violating decays of a top squark in proton-proton collisions at  $\sqrt{s} = 8$  TeV", CMS Collaboration, Phys.Lett. B760 (2016) 178-201
- 645) "Measurement of dijet azimuthal decorrelation in pp collisions at  $\sqrt{s} = 8$  TeV", CMS Collaboration, Eur.Phys.J. C76 (2016) no.10, 536
- 646) "Search for supersymmetry in the multijet and missing transverse momentum final state in pp collisions at 13 TeV", CMS Collaboration, Phys.Lett. B758 (2016) 152-180
- 647) "Measurement of the Z gamma to nu nu-bar gamma production cross section in pp collisions at  $\sqrt{s} = 8$  TeV and limits on anomalous Z-Z-gamma and Z-gamma-gamma trilinear gauge boson couplings", CMS Collaboration, Phys.Lett. B760 (2016) 448-468
- 648) "Search for heavy resonances decaying to two Higgs bosons in final states containing four b quarks", CMS Collaboration, Eur.Phys.J. C76 (2016) no.7, 371
- 649) "Search for supersymmetry in electroweak production with photons and large missing transverse energy in pp collisions at  $\sqrt{s} = 8$  TeV", CMS Collaboration, Phys.Lett. B759 (2016) 479-500
- 650) "Measurements of the t-tbar production cross section in lepton+jets final states in pp collisions at 8 TeV and ratio of 8 to 7 TeV cross sections", CMS Collaboration, Submitted to: Eur.Phys.J.C
- 651) "Search for direct pair production of supersymmetric top quarks decaying to all-hadronic final states in pp collisions at  $\sqrt{s} = 8$  TeV", CMS Collaboration, Eur.Phys.J. C76 (2016) no.8, 460
- 652) "Measurement of the differential cross section and charge asymmetry for inclusive pp to W + X production at  $\sqrt{s} = 8$  TeV", CMS Collaboration, Eur.Phys.J. C76 (2016) no.8, 469
- 653) "Search for heavy Majorana neutrinos in e+/- e+/- plus jets and e+/- mu+/- plus jets events in proton-proton collisions at  $\sqrt{s} = 8$  TeV", CMS Collaboration, JHEP 1604 (2016) 169

- 654) "Measurement of the t-tbar production cross section in the e-mu channel in proton-proton collisions at  $\sqrt{s} = 7$  and 8 TeV", CMS Collaboration, JHEP 1608 (2016) 029
- 655) "Search for s channel single top quark production in pp collisions at  $\sqrt{s} = 7$  and 8 TeV", CMS Collaboration, JHEP 1609 (2016) 027
- 656) "Y(nS) polarizations versus particle multiplicity in pp collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, Phys.Lett. B761 (2016) 31-52
- 657) "Search for neutral resonances decaying into a Z boson and a pair of b jets or tau leptons", CMS Collaboration, Phys.Lett. B759 (2016) 369-394
- 658) "Search for new physics with the MT2 variable in all-jets final states produced in pp collisions at  $\sqrt{s} = 13$  TeV", CMS Collaboration, JHEP 1610 (2016) 006
- 659) "Measurements of t t-bar charge asymmetry using dilepton final states in pp collisions at  $\sqrt{s} = 8$  TeV", CMS Collaboration, Phys.Lett. B760 (2016) 365-386
- 660) "Measurement of the top quark mass using charged particles in collisions at  $\sqrt{s} = 8$  TeV", CMS Collaboration, Phys.Rev. D93 (2016) no.9, 092006
- 661) "Search for two Higgs bosons in final states containing two photons and two bottom quarks", CMS Collaboration, Phys.Rev. D94 (2016) no.5, 052012
- 662) "Search for dark matter particles in proton-proton collisions at  $\sqrt{s} = 8$  TeV using the razor variables", CMS Collaboration, JHEP 1612 (2016) 088
- 663) "Evidence for exclusive gamma-gamma to W+ W- production and constraints on anomalous quartic gauge couplings at  $\sqrt{s} = 7$  and 8 TeV", CMS Collaboration, JHEP 1608 (2016) 119
- 664) "Search for lepton flavour violating decays of heavy resonances and quantum black holes to an e-mu pair in proton-proton collisions at  $\sqrt{s} = 8$  TeV", CMS Collaboration, Eur.Phys.J. C76 (2016) no.6, 317
- 665) "Pseudorapidity dependence of long-range two-particle correlations in pPb collisions at  $\sqrt{s_{NN}}=5.02$  TeV", CMS collaboration, Phys.Rev. C96 (2017) no.1, 01491
- 666) "Search for narrow resonances in dijet final states at  $\sqrt{s} = 8$  TeV with the novel CMS technique of data scouting", CMS collaboration, Phys.Rev.Lett. 117 (2016) no.3, 031802
- 667) "Measurement of the integrated and differential t-tbar production cross sections for high-pt top quarks in pp collisions at  $\sqrt{s} = 8$  TeV", CMS collaboration, Phys.Rev. D94 (2016) 072002
- 668) "Search for Higgs boson off-shell production in proton-proton collisions at 7 and 8 TeV and derivation of constraints on its total decay width", CMS collaboration, JHEP 1609 (2016) 051
- 669) "Search for new physics in same-sign dilepton events in proton-proton collisions at  $\sqrt{s} = 13$  TeV", CMS collaboration, Eur.Phys.J. C76 (2016) no.8, 439

- 670) "A 3D diamond detector for particle tracking", M.Artuso et al., Nucl.Instrum.Meth. A824 (2016) 402-405
- 671) "Measurement of the double-differential inclusive jet cross section in proton-proton collisions at  $\sqrt{s} = 13$  TeV", CMS collaboration, Eur.Phys.J. C76 (2016) no.8, 451
- 672) "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", CMS collaboration, JHEP 1608 (2016) 122
- 673) "Multiplicity and rapidity dependence of strange hadron production in pp, pPb, and PbPb collisions at the LHC", CMS collaboration, Phys.Lett. B768 (2017) 103-129
- 674) "Coherent J/Psi photoproduction in ultra-peripheral PbPb collisions at  $\sqrt{s_{NN}} = 2.76$  TeV with the CMS experiment", CMS collaboration, Phys.Lett. B772 (2017) 489-511
- 675) "Search for top squark pair production in compressed-mass-spectrum scenarios in proton-proton collisions at  $\sqrt{s} = 8$  TeV using the alphaT variable", CMS collaboration, Phys.Lett. B767 (2017) 403-430
- 676) "Measurement of the W boson helicity fractions in the decays of top quark pairs to lepton+jets final states produced in pp collisions at  $\sqrt{s} = 8$  TeV", CMS collaboration, Phys.Lett. B762 (2016) 512-534
- 677) "Search for dark matter and supersymmetry with a compressed mass spectrum in the vector boson fusion topology in proton-proton collisions at  $\sqrt{s} = 8$  TeV", CMS collaboration, Phys. Rev. Lett 118 (2017) 0218021
- 678) "Diamond Particle Detectors for High Energy Physics", RD42 Collaboration, Nucl. Part. Phys. Proc. 273-275 (2016) 1023-1028.
- 679) "Measurement of the transverse momentum spectrum of the Higgs boson produced in pp collisions at  $\sqrt{s} = 8$  TeV using H to WW decays", CMS collaboration, JHEP 1703 (2017) 032
- 680) "Measurements of the Higgs boson production and decay rates and constraints on its couplings from a combined ATLAS and CMS analysis of the LHC pp collision data at  $\sqrt{s} = 7$  and 8 TeV", CMS Collaboration, JHEP 1608 (2016) 045
- 681) "Phenomenological MSSM interpretation of CMS searches in pp collisions at  $\sqrt{s} = 7$  and 8 TeV", CMS Collaboration, JHEP 1610 (2016) 129
- 682) "Search for resonant production of high-mass photon pairs in proton-proton collisions at  $\sqrt{s} = 8$  and 13 TeV", CMS Collaboration, Phys.Rev.Lett. 117 (2016) no.5, 051802
- 683) "Measurement of the transverse momentum spectra of weak vector bosons produced in proton-proton collisions at  $\sqrt{s} = 8$  TeV", CMS Collaboration, JHEP 1702 (2017) 096
- 684) "Evidence for collectivity in pp collisions at the LHC", CMS Collaboration, Phys.Lett. B765 (2017) 193-220
- 685) "Searches for R-parity-violating supersymmetry in pp collisions at  $\sqrt{s}=8$  TeV in final states with 0-4 leptons", CMS Collaboration, Phys.Rev. D94 (2016) 112009

- 686) “Measurement of the differential cross sections for top quark pair production as a function of kinematic event variables in pp collisions at  $\sqrt{s} = 7$  and 8 TeV”, CMS Collaboration, Phys.Rev. D94 (2016) no.5, 052006
- 687) “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”, CMS Collaboration, JHEP 1612 (2016) 013
- 688) “Observation of the decay  $B^+ \rightarrow \psi(2S)\phi(1020)K^+$  in pp collisions at  $\sqrt{s} = 8$  TeV”, CMS Collaboration, Phys.Lett. B764 (2017) 66-86
- 689) “Search for lepton flavour violating decays of the Higgs boson to e tau and e mu in proton-proton collisions at  $\sqrt{s}=8$  TeV”, CMS Collaboration, Phys.Lett. B763 (2016) 472-500
- 690) “Jet energy scale and resolution in the CMS experiment in pp collisions at 8 TeV”, CMS Collaboration, JINST 12 (2017) no.02, P02014
- 691) “Search for dark matter in proton-proton collisions at 8 TeV with missing transverse momentum and vector boson tagged jets”, CMS Collaboration, JHEP 1612 (2016) 083
- 692) “Measurement of the WZ production cross section in pp collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Phys.Lett. B766 (2017) 268-290
- 693) “Measurement of electroweak production of a W boson and two forward jets in proton-proton collisions at  $\sqrt{s} = 8$  TeV”, CMS Collaboration, JHEP 1611 (2016) 147
- 694) “Measurement of the ZZ production cross section and  $Z \rightarrow l^+l^-l'^+l'^-$  branching fraction in pp collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Phys.Lett. B763 (2016) 280-303
- 695) “Search for new phenomena in events with high jet multiplicity and low missing transverse momentum in proton-proton collisions at  $\sqrt{s} = 8$  TeV”, CMS Collaboration, Phys.Lett. B770 (2017) 257-267
- 696) “Measurement of the mass of the top quark in decays with a J/psi meson in pp collisions at 8 TeV”, CMS Collaboration, JHEP 1612 (2016) 123
- 697) “Measurement of the production cross section of the W boson in association with two b jets in pp collisions at  $\sqrt{s} = 8$  TeV”, CMS Collaboration, Eur.Phys.J. C77 (2017) no.2, 92
- 698) “Measurement of the total and differential inclusive B(+) hadron cross sections in pp collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Phys.Lett. B771 (2017) 435-456
- 699) “The CMS trigger system”, CMS Collaboration, JINST 12 (2017) no. 01 P01020
- 700) “Decomposing transverse momentum balance contributions for quenched jets in PbPb collisions at  $\sqrt{s_{NN}} = 2.76$  TeV”, CMS Collaboration, JHEP 1611 (2016) 055
- 701) “Search for high-mass diphoton resonances in proton-proton collisions at 13 TeV and combination with 8 TeV search”, CMS Collaboration, Phys.Lett. B767 (2017) 147-170

- 702) "Studies of inclusive four-jet production with two b-tagged jets in proton-proton collisions at 7 TeV", CMS Collaboration, Phys.Rev. D94 (2016) no.11, 112005
- 703) "Measurement and QCD analysis of double-differential inclusive jet cross-sections in pp collisions at  $\sqrt{s_{NN}} = 8$  TeV and ratios to 2.76 and 7 TeV", CMS Collaboration, JHEP 1703 (2017) 156
- 704) "Measurement of inclusive jet cross-sections in pp and PbPb collisions at  $\sqrt{s_{NN}} = 2.76$  TeV", CMS Collaboration, Phys.Rev. C96 (2017) no.1, 015202
- 705) "Search for narrow resonances in dilepton mass spectra in proton-proton collisions at  $\sqrt{s} = 13$  TeV and combination with 8 TeV data", CMS Collaboration, Phys.Lett. B768 (2017) 57-80
- 706) "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", CMS Collaboration, Eur.Phys.J. C77 (2017) no.4, 236
- 707) "Inclusive search for supersymmetry using razor variables in pp collisions at  $\sqrt{s} = 13$  TeV", CMS Collaboration, Phys. Ev. D95 (2017) no. 1, 012003
- 708) "Search for long-lived charged particles in proton-proton collisions at  $\sqrt{s} = 13$  TeV", CMS Collaboration, Phys.Rev. D94 (2016) no.11, 112004
- 709) "Search for supersymmetry in events with one lepton and multiple jets in proton-proton collisions at  $\sqrt{s} = 13$  TeV", CMS Collaboration, Phys.Rev. D95 (2017) no.1, 012011
- 710) "Observation of charge-dependent azimuthal correlations in pPb collisions and its implication for the search for the chiral magnetic effect", CMS Collaboration, Phys.Rev.Lett. 118 (2017) no.12, 122301
- 711) "Suppression and azimuthal anisotropy of prompt and nonprompt  $J/\psi$  production in PbPb collisions at  $\sqrt{s_{NN}} = 2.76$  TeV", CMS Collaboration, Eur.Phys.J. C77 (2017) no.4, 252
- 712) "Cross section measurement of t-channel single top quark production in pp collisions at  $\sqrt{s} = 13$  TeV", CMS Collaboration, Phys.Lett. B772 (2017) 752-776
- 713) "Search for high-mass Z-gamma resonances in e+e-gamma and mu+mu-gamma final states in proton-proton collisions at  $\sqrt{s} = 8$  and 13 TeV", CMS Collaboration, JHEP 1701 (2017) 076
- 714) "Search for anomalous Wtb couplings and flavour-changing neutral currents in t-channel single top quark production in pp collisions at  $\sqrt{s} = 7$  and 8 TeV", CMS Collaboration, JHEP 1702 (2017) 028
- 715) "Measurement of differential cross sections for top quark pair production using the lepton+jets final state in proton-proton collisions at 13 TeV", CMS Collaboration, Phys.Rev. D95 (2017) no.9, 092001

- 716) “Measurements of differential cross sections for associated production of a W boson and jets in proton-proton collisions at  $\sqrt{s} = 8$  TeV”, CMS Collaboration, Phys.Rev. D95 (2017) 052002
- 717) “Search for top quark decays via Higgs-boson-mediated flavor-changing neutral currents in pp collisions at  $\sqrt{s} = 8$  TeV”, CMS Collaboration, JHEP 1702 (2017) 079
- 718) “Search for electroweak production of charginos in final states with two tau leptons in pp collisions at  $\sqrt{s} = 8$  TeV”, CMS Collaboration, JHEP 1704 (2017) 018
- 719) “Search for R-parity violating supersymmetry with displaced vertices in proton-proton collisions at  $\sqrt{s}=8$  TeV”, CMS Collaboration, Phys. Rev. D95 (2017) 012009
- 720) “Observation of (1S) pair production in proton-proton collisions at  $\sqrt{s} = 8$  TeV”, CMS Collaboration, JHEP 1705 (2017) 013
- 721) “Search for heavy resonances decaying into a vector boson and a Higgs boson in final states with charged leptons, neutrinos, and b quarks”, CMS Collaboration, Phys.Lett. B768 (2017) 137-162
- 722) “Searches for invisible decays of the Higgs boson in pp collisions at  $\sqrt{s} = 7, 8,$  and  $13$  TeV”, CMS Collaboration, JHEP 1702 (2017) 135
- 723) “Measurement of the mass difference between top quark and antiquark in pp collisions at  $\sqrt{s} = 8$  TeV”, CMS Collaboration, Phys.Lett. B770 (2017) 50-71
- 724) “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 alphaT variable”, CMS Collaboration, Eur.Phys.J. C77 (2017) no.5, 294
- 725) “Relative modification of prompt psi(2S) and J/psi yields from pp to PbPb collisions at  $\sqrt{s_{NN}} = 5.02$  TeV”, CMS Collaboration, Phys.Rev.Lett. 118 (2017) no.16, 162301
- 726) “Suppression of (1S), (2S) and (3S) production in PbPb collision  $\sqrt{s_{NN}} = 2.76$  TeV”, CMS Collaboration, Phys.Lett. B770 (2017) 357-379
- 727) “Charged-particle nuclear modification factors in PbPb and pPb collisions at  $\sqrt{s_{NN}} = 5.02$  TeV”, CMS Collaboration, JHEP 1704 (2017) 039
- 728) “Search for dijet resonances in proton-proton collisions at  $\sqrt{s} = 13$  TeV and constraints on dark matter and other models”, CMS Collaboration, Phys.Lett. B769 (2017) 520-542
- 729) “Measurements of the differential production cross sections for a Z boson in association with jets in pp collisions at  $\sqrt{s} = 8$  TeV”, CMS Collaboration, JHEP 1704 (2017) 022
- 730) “Measurement of the ttbar production cross section using events in the e mu final state in pp collisions at  $\sqrt{s}=13$  TeV”, CMS Collaboration, Eur.Phys.J. C77 (2017) 172
- 731) “Measurements of the associated production of a Z boson and b jets in pp collisions at  $\sqrt{s}=8$  TeV”, CMS Collaboration, Eur.Phys.J.C 77 (2017) 11, 751
- 732) “Search for heavy resonances decaying to tau lepton pairs in proton-proton collisions at  $\sqrt{s}=13$  TeV”, CMS Collaboration, JHEP 1702 (2017) 048

733) “Search for supersymmetry in events with photons and missing transverse energy in pp collisions at  $\sqrt{s}=13$  TeV”, CMS Collaboration, Phys.Lett. B769 (2017) 391-412

734) “Search for CP violation in top quark-antiquark production and decay in proton-proton collisions at  $\sqrt{s} = 8$  TeV”, CMS Collaboration, JHEP 1703 (2017) 101

735) “Search for single production of a heavy vector-like T quark decaying to a Higgs boson and a top quark with a lepton and jets in the final state”, CMS Collaboration, Phys.Lett. B771 (2017) 80-105

736) “Search for heavy neutrinos or third-generation leptoquarks in final states with two hadronically decaying tau leptons and two jets in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 1703 (2017) 077

737) “Searches for pair production for third-generation squarks in  $\sqrt{s} = 13$  TeV pp collisions”, CMS Collaboration, Eur.Phys.J. C77 (2017) no.5, 327

738) “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”, CMS Collaboration, JHEP 1704 (2017) 136

739) “Rate Dependence, Polarization, and Light Sensitivity of Neutron-Irradiated scCVD Diamond Sensors”, B.Bentele, J.P. Cumalat, D. Schaeffer, S.R. Wagner, G. Riley, S. Spanier, Nuclear Inst. and Methods in Physics Research, A, Volume 838, (2016), pp. 74-81

740) “Measurements of the charm jet cross section and nuclear modification factor in pPb collisions at  $\sqrt{s_{NN}} = 5.02$  TeV”, CMS Collaboration, Phys. Lett. B772 (2017) 306-329

741) “Search for massive resonances decaying into WW, WZ or ZZ bosons in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 1703 (2017) 162

742) “Measurement of electroweak-induced production of W gamma with two jets in pp collisions at  $\sqrt{s} = 8$  TeV and constraints on anomalous quartic gauge couplings”, CMS Collaboration, JHEP 1706 (2017) 106

743) “Search for heavy gauge W’ boson in events with an energetic lepton and large missing transverse momentum at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Phys. Lett. B770 (2017) 278-301

744) “Search for high-mass Z gamma resonances at  $\sqrt{s} = 8$  and 13 TeV using jet substructure techniques”, CMS Collaboration, Phys. Lett. B772 (2017) 363-387

745) “Search for leptophobic Z’ bosons decaying into four-lepton final states in proton-proton collisions at  $\sqrt{s} = 8$  TeV”, CMS Collaboration, Phys. Lett. B773 (2017) 563

746) “Search for anomalous single top quark production in association with a photon in pp collisions at  $\sqrt{s} = 8$  TeV”, CMS Collaboration, JHEP 1604 (2016) 035

747) “Search for supersymmetry in the all-hadronic final state using top quark tagging in pp collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Phys.Rev. D96 (2017) no.1, 012004

- 748) "Mechanical stability of the CMS strip tracker measured with a laser alignment system", CMS Collaboration, JINST 12 (2017) no.04, P04023
- 749) "Search for light bosons in decays of the 125 GeV Higgs boson in proton-proton collisions at  $\sqrt{s} = 8$  TeV", CMS Collaboration, JHEP 1710 (2017) 076
- 750) "Search for dark matter and unparticles in events with a Z boson and missing transverse momentum in proton-proton collisions at  $\sqrt{s} = 13$  TeV", CMS Collaboration, JHEP 1703 (2017) 061, Erratum: JHEP 1709 (2017) 106
- 751) "Measurement of the ttbar production cross section using events with one lepton and at least one jet in pp collisions at  $\sqrt{s} = 13$  TeV", CMS Collaboration, JHEP 1709 (2017) 051
- 752) "Search for new phenomena with multiple charged leptons in proton-proton collisions at  $\sqrt{s} = 13$  TeV", CMS Collaboration, Eur.Phys.J. C77 (2017) no.9, 635
- 753) "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", CMS Collaboration, JHEP 1705 (2017) 029
- 754) "Search for single production of vector-like quarks decaying into a b quark and a W boson in proton-proton collisions at  $\sqrt{s} = 13$  TeV", CMS Collaboration, Phys.Lett. B772 (2017) 634-656
- 755) "Measurement of the inclusive energy spectrum in the very forward direction in proton-proton collisions at  $\sqrt{s} = 13$  TeV", CMS Collaboration, JHEP 1708 (2017) 046
- 756) "Azimuthal anisotropy of charged particles with transverse momentum up to 100 GeV in PbPb collisions at  $\sqrt{s_{NN}} = 5.02$  TeV", CMS Collaboration, Phys.Lett. B776 (2018) 195-216
- 757) "Study of jet quenching with Z+jet correlations in PbPb and pp collisions at  $\sqrt{s} = 13$  TeV", CMS Collaboration, Phys.Rev.Lett. 119 (2017) no.8, 082301
- 758) "Search for associated production of a Z boson with a single top quark and for tZ flavour-changing interactions in pp collisions at  $\sqrt{s} = 8$  TeV", CMS Collaboration, JHEP 1707 (2017) 003
- 759) "Measurement of prompt and nonprompt J/psi production in pp and pPb collisions at  $\sqrt{s_{NN}} = 5.02$  TeV", CMS Collaboration, Eur.Phys.J. C77 (2017) no.4, 269
- 760) "Measurement of the cross section for electroweak production of Z in association with two jets and constraints on anomalous quartic gauge couplings in proton-proton collisions at  $\sqrt{s} = 8$  TeV", CMS Collaboration, Phys.Lett. B770 (2017) 380-402
- 761) "Search for standard model production of four top quarks in proton-proton collisions at  $\sqrt{s} = 13$  TeV", CMS Collaboration, Phys.Lett. B772 (2017) 336-358
- 762) "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", CMS Collaboration, Eur.Phys.J. C77 (2017) no.7, 459

- 763) "Search for dark matter produced with an energetic jet or a hadronically decaying W or Z boson at  $\sqrt{s} = 13$  TeV", CMS Collaboration, JHEP 1707 (2017) 014
- 764) "Measurement of the top quark mass using single top quark events in proton-proton collisions at  $\sqrt{s} = 8$  TeV", CMS Collaboration, Eur.Phys.J. C77 (2017) no.5, 354
- 765) "Search for the third-generation scalar leptoquarks and heavy right-handed neutrinos in final states with two tau leptons and two jets in proton-proton collisions at  $\sqrt{s} = 13$  TeV", CMS Collaboration, JHEP 1707 (2017) 121
- 766) "Search for associated production of dark matter with a Higgs boson decaying to b-bbar or gamma-gamma at  $\sqrt{s} = 13$  TeV", CMS Collaboration, JHEP 1710 (2017) 180
- 767) "Search for anomalous couplings in boosted WW/WZ  $\rightarrow l\nu qq\bar{q}$  production in proton-proton collisions at  $\sqrt{s} = 8$  TeV", CMS Collaboration, Phys.Lett. B772 (2017) 21-42
- 768) "Measurement of the jet mass in highly boosted t-tbar events from pp collisions at  $\sqrt{s} = 8$  TeV", CMS Collaboration, Eur.Phys.J. C77 (2017) no.7, 467
- 769) "Search for a heavy resonance decaying to a top quark and a vector-like top quark at  $\sqrt{s} = 13$  TeV", CMS Collaboration, JHEP 1709 (2017) 053
- 770) "Search for new physics with dijet angular distributions in proton-proton collisions at  $\sqrt{s} = 13$  TeV", CMS Collaboration, JHEP 1707 (2017) 013
- 771) "Measurements of the pp  $\rightarrow W\gamma\gamma$  and pp  $\rightarrow Z\gamma\gamma$  cross sections and limits on anomalous quartic gauge couplings at  $\sqrt{s} = 8$  TeV", CMS Collaboration, JHEP 1710 (2017) 072
- 772) "Search for ttbar resonances in highly-boosted lepton+jets and fully hadronic final states in proton-proton collisions at 13 TeV", CMS Collaboration, JHEP 1707 (2017) 001
- 773) "Measurement of the top quark mass in the dileptonic ttbar decay channel using the mass observables Mbl, MT2, and Mblv in pp collisions at  $\sqrt{s} = 8$  TeV", CMS Collaboration, Phys.Rev. D96 (2017) no.3, 032002
- 774) "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", CMS Collaboration, Eur.Phys.J. C77 (2017) no.9, 578
- 775) "Search for supersymmetry in multijet events with missing transverse momentum in proton-proton collisions at 13 TeV", CMS Collaboration, Phys.Rev. D96 (2017) no.3, 032003
- 776) "Search for black holes in high-multiplicity final states in proton-proton collisions at  $\sqrt{s} = 13$  TeV", CMS Collaboration, Phys.Lett. B774 (2017) 279-307
- 777) "Measurement of the triple-differential dijet cross section in proton-proton collisions at  $\sqrt{s} = 8$  TeV and constraints on parton distribution functions", CMS Collaboration, Eur.Phys.J. C77 (2017) no.11, 746
- 778) "Search for charged Higgs bosons produced in vector boson fusion processes and decaying into a pair of W and Z bosons using proton-proton collisions at  $\sqrt{s} = 13$  TeV", CMS Collaboration, Phys.Rev.Lett. 119 (2017) no.14, 141802

779) “Search for new phenomena with the MT2 variable in the all-hadronic final state produced in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Eur.Phys.J. C77 (2017) no.10, 710

780) “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”, CMS Collaboration, Phys.Rev.Lett. 119 (2017) no.15, 151802

781) “Measurement of  $B^{+/-}$  meson differential production cross sections in pp and PbPb collisions at  $\sqrt{s[NN]} = 5.02$  TeV”, CMS Collaboration, Phys.Rev.Lett. 119 (2017) no.15, 152301

782) “Combination of searches for heavy resonances decaying to WW, WZ, ZZ, WH, and ZH boson pairs in proton-proton collisions at  $\sqrt{s} = 8$  and 13 TeV”, CMS Collaboration, Phys.Lett. B774 (2017) 533-558

783) “Measurements of ttbar cross sections in association with b jets and inclusive jets and their ratio using dilepton final states in pp collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Phys.Lett. B776 (2018) 355-378

784) “Search for low mass vector resonances decaying to quark-antiquark pairs in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Phys.Rev.Lett. 119 (2017) no.11, 111802

785) “Test Beam Performance Measurements for the Phase I Upgrade of the CMS Pixel Detector”, CMS Collaboration, JINST 12 (2017) no.05, P05022

786) “Search for top quark partners with charge 5/3 in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 1708 (2017) 073

787) “Search for dark matter produced in association with heavy-flavor quarks in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Eur.Phys.J. C77 (2017) no.12, 845

788) “Search for pair production of vector-like T and B quarks in single-lepton final states using boosted jet substructure techniques at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 1711 (2017) 085

789) “Search for new physics in the monophoton final state in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 1710 (2017) 073

790) “Searches for W’ bosons decaying to a top quark and a bottom quark in proton-proton collisions at 13 TeV”, CMS Collaboration, JHEP 1708 (2017) 029

791) “Search for top squark pair production in pp collisions at  $\sqrt{s} = 13$  TeV using single lepton events”, CMS Collaboration, JHEP 1710 (2017) 019

792) “Particle-flow reconstruction and global event description with the CMS detector”, CMS Collaboration, JINST 12 (2017) no.10, P10003

793) “Measurements of jet charge with dijet events in pp collisions at  $\sqrt{s} = 8$  TeV”, CMS Collaboration, JHEP 1710 (2017) 131

- 794) “Suppression of excited Upsilon states relative to the ground state in PbPb collisions at  $\sqrt{s[NN]} = 5.02$  TeV”, CMS Collaboration, Phys.Rev.Lett. 120 (2018) no.14, 142301
- 795) “Diamond detector technology: status and perspectives”, RD42 Collaboration (A. Alexopoulos (CERN) et al.), PoS Vertex 2016 (2017) 027
- 796) “Measurement of the semileptonic ttbar gamma production cross section in pp collisions at  $\sqrt{s} = 8$  TeV”, CMS Collaboration, JHEP 1710 (2017) 006
- 797) “Exclusive and semi-exclusive pi+pi- production in proton-proton collisions at  $\sqrt{s} = 7$  TeV”, CMS Collaboration, submitted for publication, arXiv:1706.08310
- 798) “Search for a heavy composite Majorana neutrino in the final state with two leptons and two quarks at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Phys.Lett. B775 (2017) 315-337
- 799) “P-Type Silicon Strip Sensors for the new CMS Tracker at HL-LHC”, CMS Collaboration, JINST 12 (2017) no.06, P06018
- 800) “Search for electroweak production of charginos and neutralinos in WH events in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 1711 (2017) 029
- 801) “Measurements of properties of the Higgs boson decaying into the four-lepton final state in pp collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 1711 (2017) 047
- 802) “Measurement of charged pion, kaon, and proton production in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Phys.Rev. D96 (2017) no.11, 112003
- 803) “Search for Higgs boson pair production in the bbtautau final state in proton-proton collisions at  $\sqrt{s} = 8$  TeV”, CMS Collaboration, Phys.Rev. D96 (2017) no.7, 072004
- 804) “Constraints on anomalous Higgs boson couplings using production and decay information in the four-lepton final state”, CMS Collaboration, Phys.Lett. B775 (2017) 1-24
- 805) “Search for heavy resonances that decay into a vector boson and a Higgs boson in hadronic final states at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Eur.Phys.J. C77 (2017) no.9, 636
- 806) “Search for Higgs boson pair production in events with two bottom quarks and two tau leptons in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Phys.Lett. B778 (2018) 101-127
- 807) “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”, CMS Collaboration, JHEP 1710 (2017) 005
- 808) “Search for natural supersymmetry in events with top quark pairs and photons in pp collisions at  $\sqrt{s} = 8$  TeV”, CMS Collaboration, JHEP 1803 (2018) 167
- 809) “Measurement of the differential cross sections for the associated production of a W boson and jets in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Phys.Rev. D96 (2017) no.7, 072005

- 810) “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”, CMS Collaboration, JHEP 1712 (2017) 142
- 811) “Search for the pair production of third-generation squarks with two-body decays to a bottom or charm quark and a neutralino in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Phys.Lett. B778 (2018) 263-291
- 812) “Search for a light pseudoscalar Higgs boson produced in association with bottom quarks in pp collisions at  $\sqrt{s} = 8$  TeV”, CMS Collaboration, JHEP 1711 (2017) 010
- 813) “Observation of the Higgs boson decay to a pair of tau leptons”, CMS Collaboration, Phys.Lett. B779 (2018) 283-316
- 814) “Search for single production of a vector-like T quark decaying to a Z boson and a top quark in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Phys.Lett. B781 (2018) 574-600
- 815) “Constraints on the chiral magnetic effect using charge-dependent azimuthal correlations in pPb and PbPb collisions at the LHC”, CMS Collaboration, Phys.Rev. C97 (2018) no.4, 044912
- 816) “Search for vector-like light-flavor quark partners in proton-proton collisions at  $\sqrt{s} = 8$  TeV”, CMS Collaboration, Phys.Rev. D97 (2018) 072008
- 817) “Measurement of vector boson scattering and constraints on anomalous quartic couplings from events with four leptons and two jets in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Phys.Lett. B774 (2017) 682-705
- 818) “Measurement of prompt  $D^0$  meson azimuthal anisotropy in PbPb collisions at  $\sqrt{s_{NN}} = 5.02$  TeV”, CMS Collaboration, Phys.Rev.Lett. 120 (2018) no.20, 202301 CMS-HIN-16-007, CERN-EP-2017-174
- 819) “Search for resonant and nonresonant Higgs boson pair production in the  $b\bar{b}\ell\nu\ell\nu$  final state in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 1801 (2018) 054
- 820) “Nuclear modification factor of  $D^0$  mesons in PbPb collisions at  $\sqrt{s[NN]} = 5.02$  TeV”, CMS Collaboration, Phys.Lett. B782 (2018) 474-496
- 821) “Search for massive resonances decaying into WW, WZ, ZZ, qW, and qZ with dijet final states at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Phys.Rev. D97 (2018) no.7, 072006
- 822) “Characterisation of irradiated thin silicon sensors for the CMS phase II pixel upgrade”, CMS Collaboration, Eur.Phys.J. C77 (2017) no.8, 567
- 823) “Principal-component analysis of two-particle azimuthal correlations in PbPb and pPb collisions at CMS”, CMS Collaboration, Phys.Rev. C96 (2017) no.6, 064902
- 824) “Measurement of normalized differential t-tbar cross sections in the dilepton channel from pp collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 1804 (2018) 060

825) “Search for evidence of the type-III seesaw mechanism in multilepton final states in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Phys.Rev.Lett. 119 (2017) no.22, 221802

826) “Search for heavy resonances decaying to a top quark and a bottom quark in the lepton+jets final state in proton-proton collisions at 13 TeV”, CMS Collaboration, Phys.Lett. B777 (2018) 39-63

827) “Challenges to the chiral magnetic wave using charge-dependent azimuthal anisotropies in pPb and PbPb collisions at  $\sqrt{s[NN]} = 5.02$  TeV”, CMS Collaboration, Phys.Rev.C 100 (2019) 6, 064908

828) “Measurement of the splitting function in pp and PbPb collisions at  $\sqrt{s[NN]} = 5.02$  TeV”, CMS Collaboration, Phys.Rev.Lett. 120 (2018) no.14, 142302

829) “Search for supersymmetry with Higgs boson to diphoton decays using the razor variables at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Phys.Lett. B779 (2018) 166-190

830) “Search for higgsino pair production in pp collisions at  $\sqrt{s} = 13$  TeV in final states with large missing transverse momentum and two Higgs bosons decaying via  $H \rightarrow b\bar{b}$ ”, CMS Collaboration, Phys.Rev. D97 (2018) no.3, 032007

831) “Combination of inclusive and differential  $t\bar{t}$  charge asymmetry measurements using ATLAS and CMS data at  $\sqrt{s} = 7$  and 8 TeV”, CMS Collaboration, JHEP 1804 (2018) 033

832) “Search for electroweak production of charginos and neutralinos in multilepton final states in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 1803 (2018) 166

833) “Inclusive search for a highly boosted Higgs boson decaying to a bottom quark-antiquark pair”, CMS Collaboration, Phys.Rev.Lett. 120 (2018) no.7, 071802

834) “Observation of electroweak production of same-sign W boson pairs in the two jet and two same-sign lepton final state in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Phys.Rev.Lett. 120 (2018) no.8, 081801

835) “Observation of top quark production in proton-nucleus collisions”, CMS Collaboration, Phys.Rev.Lett. 119 (2017) no.24, 242001

836) “Evidence for the Higgs boson decay to a bottom quark-antiquark pair”, CMS Collaboration, Phys.Lett. B780 (2018) 501-532

837) “Measurements of the pp $\rightarrow ZZ$  production cross section and the Z $\rightarrow 4l$  branching fraction, and constraints on anomalous triple gauge couplings at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Eur.Phys.J. C78 (2018) 165, Erratum: Eur.Phys.J. C78 (2018) no.6, 515

838) “Search for new phenomena in final states with two opposite-charge, same-flavor leptons, jets, and missing transverse momentum in pp collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 1803 (2018) 076

- 839) "Observation of correlated azimuthal anisotropy Fourier harmonics in pp and pPb collisions at the LHC", CMS Collaboration, Phys.Rev.Lett. 120 (2018) no.9, 092301
- 840) "Search for supersymmetry in events with one lepton and multiple jets exploiting the angular correlation between the lepton and the missing transverse momentum in proton-proton collisions at  $\sqrt{s} = 13$  TeV", CMS Collaboration, Phys.Lett. B780 (2018) 384-409
- 841) "Search for low mass vector resonances decaying into quark-antiquark pairs in proton-proton collisions at  $\sqrt{s} = 13$  TeV", CMS Collaboration, JHEP 1801 (2018) 097
- 842) "Search for pair production of vector-like quarks in the bW bbarW channel from proton-proton collisions at  $\sqrt{s} = 13$  TeV", CMS Collaboration, Phys.Lett. B779 (2018) 82-106
- 843) "Study of dijet events with a large rapidity gap between the two leading jets in pp collisions at  $\sqrt{s} = 7$  TeV", CMS Collaboration, Eur.Phys.J. C78 (2018) no.3, 242
- 844) "Measurement of angular parameters from the decay  $B^0 \rightarrow K^{*0} \mu^+ \mu^-$  in proton-proton collisions at  $\sqrt{s} = 8$  TeV", CMS Collaboration, Phys.Lett. B781 (2018) 517-541
- 845) "Search for a massive resonance decaying to a pair of Higgs bosons in the four b quark final state in proton-proton collisions at  $\sqrt{s} = 13$  TeV", CMS Collaboration, Phys.Lett. B781 (2018) 244-269
- 846) "Pseudorapidity and transverse momentum dependence of flow harmonics in pPb and PbPb collisions", CMS Collaboration, Phys.Rev. C98 (2018) no.4, 044902
- 847) "Measurement of differential cross sections in the  $\phi^*$  variable for inclusive Z boson production in pp collisions at  $\sqrt{s} = 8$  TeV", CMS Collaboration, JHEP 1803 (2018) 172
- 848) "Measurement of b hadron lifetimes in pp collisions at  $\sqrt{s} = 8$  TeV", CMS Collaboration, Eur.Phys.J. C78 (2018) no.6, 457, Erratum: Eur.Phys.J. C78 (2018) no.7, 561
- 849) "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", CMS Collaboration, JHEP 1802 (2018) 067
- 850) "Pseudorapidity distributions of charged hadrons in proton-lead collisions at  $\sqrt{s_{NN}} = 5.02$  and  $8.16$  TeV", CMS Collaboration, JHEP 1801 (2018) 045
- 851) "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", CMS Collaboration, Eur.Phys.J.C 78 (2018) 2, 140
- 852) "Measurement of quarkonium production cross sections in pp collisions at  $\sqrt{s} = 13$  TeV", CMS Collaboration, Eur.Phys.J. C78 (2018) no.2, 140
- 853) "Search for supersymmetry in proton-proton collisions at 13 TeV using identified top quarks", CMS Collaboration, Phys.Rev. D97 (2018) no.1, 012007
- 854) "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", CMS Collaboration, Eur.Phys.J. C78 (2018) no.4, 291

- 855) "Search for top squarks and dark matter particles in opposite-charge dilepton final states at  $\sqrt{s} = 13$  TeV", CMS Collaboration, Phys.Rev. D97 (2018) 032009
- 856) "Measurement of associated Z + charm production in proton-proton collisions at  $\sqrt{s} = 8$  TeV", CMS Collaboration, Eur.Phys.J. C78 (2018) no.4, 287
- 857) "Measurement of the cross section for top quark pair production in association with a W or Z boson in proton-proton collisions at  $\sqrt{s} = 13$  TeV", CMS Collaboration, JHEP 1808 (2018) 011
- 858) "Measurement of the inclusive t tbar cross section in pp collisions at  $\sqrt{s} = 5.02$  TeV using final states with at least one charged lepton", CMS Collaboration, JHEP 1803 (2018) 115
- 859) "Measurement of the underlying event activity in inclusive Z boson production in proton-proton collisions at  $\sqrt{s} = 13$  TeV", CMS Collaboration, JHEP 1807 (2018) 032
- 860) "Search for diboson resonances in the  $2l2\nu$  final state", CMS Collaboration, JHEP 1803 (2018) 003
- 861) "Search for excited states of light and heavy flavor quarks in the  $\gamma$ +jet final state in proton-proton collisions at  $\sqrt{s} = 13$  TeV", CMS Collaboration, Phys.Lett. B781 (2018) 390-411
- 862) "Non-Gaussian elliptic-flow fluctuations in PbPb collisions at  $\sqrt{s[NN]} = 5.02$  TeV", CMS Collaboration, Phys.Lett. B789 (2019) 643-665
- 863) "Search for gauge-mediated supersymmetry in events with at least one photon and missing transverse momentum in pp collisions at  $\sqrt{s} = 13$  TeV", CMS Collaboration, Phys.Lett. B780 (2018) 118-143
- 864) "Search for new long-lived particles at  $\sqrt{s} = 13$  TeV", CMS Collaboration, Phys.Lett. B780 (2018) 432-454
- 865) "Study of jet quenching with isolated-photon + jet correlations in PbPb and pp collisions at  $\sqrt{s[NN]} = 5.02$  TeV", CMS Collaboration, Phys.Lett. B785 (2018) 14-39
- 866) "Search for pair production of excited top quarks in the lepton+jets final state", CMS Collaboration, Phys.Lett. B778 (2018) 349
- 867) "Constraints on the double-parton scattering cross section from same-sign W boson pair production in proton-proton collisions at  $\sqrt{s} = 8$  TeV", CMS Collaboration, JHEP 1802 (2018) 032
- 868) "Search for new physics in final states with an energetic jet or a hadronically decaying W or Z boson and transverse momentum imbalance at  $\sqrt{s} = 13$  TeV", CMS Collaboration, Phys.Rev. D97 (2018) no.9, 092005
- 869) "Search for the flavor-changing neutral current interactions of the top quark and the Higgs boson which decays into a pair of b quarks at  $\sqrt{s} = 13$  TeV", CMS Collaboration, JHEP 1806 (2018) 102

- 870) "Measurement of the associated production of a single top quark and a Z boson in pp collisions at  $\sqrt{s} = 13$  TeV", CMS Collaboration, Phys.Lett. B779 (2018) 358-384
- 871) "Search for  $Z\gamma$  resonances using leptonic and hadronic final states in proton-proton collisions at  $\sqrt{s} = 13$  TeV", CMS Collaboration, JHEP 1809 (2018) 148
- 872) "Azimuthal correlations for inclusive 2-jet, 3-jet, and 4-jet events in pp collisions at  $\sqrt{s} = 13$  TeV", CMS Collaboration, Eur.Phys.J. C78 (2018) no.7, 566
- 873) "Search for the  $X(5568)$  state decaying into  $B_s^0\pi^\pm$  in proton-proton collisions at  $\sqrt{s} = 8$  TeV", CMS Collaboration, Phys.Rev.Lett. 120 (2018) no.20, 202005
- 874) "Identification of heavy-flavour jets with the CMS detector in pp collisions at 13 TeV", CMS Collaboration, JINST 13 (2018) no.05, P05011
- 875) "Search for lepton flavour violating decays of the Higgs boson to  $\mu\tau$  and  $e\tau$  in proton-proton collisions at  $\sqrt{s} = 13$  TeV", CMS Collaboration, JHEP 1806 (2018) 001
- 876) "Study of Bose-Einstein correlations in pp, pPb, and PbPb collisions at the LHC", CMS Collaboration, Phys.Rev. C97 (2018) no.6, 064912
- 877) "Search for physics beyond the standard model in events with high-momentum Higgs bosons and missing transverse momentum in proton-proton collisions at 13 TeV", CMS Collaboration, Phys.Rev.Lett. 120 (2018) no.24, 241801
- 878) "Search for R-parity violating supersymmetry in pp collisions at  $\sqrt{s} = 13$  TeV using b jets in a final state with a single lepton, many jets, and high sum of large-radius jet masses", CMS Collaboration, Phys.Lett. B783 (2018) 114-139
- 879) "Measurement of prompt and nonprompt charmonium suppression in PbPb collisions at 5.02 TeV", CMS Collaboration, Eur.Phys.J. C78 (2018) no.6, 509
- 880) "Electroweak production of two jets in association with a Z boson in proton-proton collisions at  $\sqrt{s} = 13$  TeV", CMS Collaboration, Eur.Phys.J. C78 (2018) no.7, 589
- 881) "Search for decays of stopped exotic long-lived particles produced in proton-proton collisions at  $\sqrt{s} = 13$  TeV", CMS Collaboration, JHEP 1805 (2018) 127
- 882) "Search for new physics in events with two soft oppositely charged leptons and missing transverse momentum in proton-proton collisions at  $\sqrt{s} = 13$  TeV", CMS Collaboration, Phys.Lett. B782 (2018) 440-467
- 883) "Measurement of the  $Z\gamma^* \rightarrow \tau\tau$  cross section in pp collisions at  $\sqrt{s} = 13$  TeV and validation of  $\tau$  lepton analysis techniques", CMS Collaboration, Eur.Phys.J. C78 (2018) no.9, 708
- 884) "Combined search for electroweak production of charginos and neutralinos in proton-proton collisions at  $\sqrt{s} = 13$  TeV", CMS Collaboration, JHEP 1803 (2018) 160
- 885) "Observation of medium induced modifications of jet fragmentation in PbPb collisions using isolated-photon-tagged jets", CMS Collaboration, Phys.Rev.Lett. 121 (2018) no.24, 242301

886) “Diamond detectors for high energy physics experiments”, RD42 Collaboration, JINST 13 (2018) no.01 01029

887) “Search for dark matter in events with energetic, hadronically decaying top quarks and missing transverse momentum at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 1806 (2018) 027

888) “Comparing transverse momentum balance of b jet pairs in pp and PbPb collisions at  $\sqrt{s_{NN}} = 5.02$  TeV”, CMS Collaboration, JHEP 1803 (2018) 181

889) “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”, CMS Collaboration, JHEP 1804 (2018) 073

890) “Search for single production of vector-like quarks decaying to a b quark and a Higgs boson”, CMS Collaboration, JHEP 1806 (2018) 031

891) “Search for natural and split supersymmetry in proton-proton collisions at  $\sqrt{s} = 13$  TeV in final states with jets and missing transverse momentum”, CMS Collaboration, JHEP 1805 (2018) 025

892) “Measurement of the inelastic proton-proton cross section at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 1807 (2018) 161

893) “Search for heavy neutral leptons in events with three charged leptons in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Phys.Rev.Lett. 120 (2018) no.22, 221801

894) “Measurement of the  $\Lambda_b$  polarization and angular parameters in  $\Lambda_b \rightarrow J/\psi \Lambda$  decays from pp collisions at  $\sqrt{s} = 7$  and 8 TeV”, CMS Collaboration, Phys.Rev. D97 (2018) no.7, 072010

895) “Search for narrow resonances in the b-tagged dijet mass spectrum in proton-proton collisions at  $\sqrt{s} = 8$  TeV”, CMS Collaboration, Phys.Rev.Lett. 120 (2018) no.20, 201801

896) “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”, CMS Collaboration, JHEP 1805 (2018) 088

897) “Jet properties in PbPb and pp collisions at  $\sqrt{s_{NN}} = 5.02$  TeV”, CMS Collaboration, JHEP 1805 (2018) 006

898) “Test beam demonstration of silicon microstrip modules with transverse momentum discrimination for the future CMS tracking detector”, CMS Collaboration, published JINST 13 (2018) no.03, P03003

899) “Search for third-generation scalar leptoquarks decaying to a top quark and a  $\tau$  lepton at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Eur.Phys.J. C78 (2018) 707

900) “Search for a heavy resonance decaying into a Z boson and a vector boson in the  $\nu\bar{\nu}q\bar{q}$  final state”, CMS Collaboration, JHEP 1807 (2018) 075

- 901) “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”, CMS Collaboration, JHEP 1806 (2018) 002
- 902) “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”, CMS Collaboration, JHEP 1807 (2018) 153
- 903) “Evidence for associated production of a Higgs boson with a top quark pair in final states with electrons, muons, and hadronically decaying  $\tau$  leptons at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 1808 (2018) 066
- 904) “Search for high-mass resonances in dilepton final states in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 1806 (2018) 120
- 905) “Search for additional neutral MSSM Higgs bosons in the  $\tau\tau$  final state in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 1809 (2018) 007
- 906) “Search for  $t\bar{t}H$  production in the all-jet final state in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 1806 (2018) 101
- 907) “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”, CMS Collaboration, Eur.Phys.J. C78 (2018) no.9, 789
- 908) “Measurement of differential cross sections for the production of top quark pairs and of additional jets in lepton+jets events from pp collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Phys.Rev. D97 (2018) no.11, 112003
- 909) “Search for a new heavy resonance decaying into a Z boson and a Z or W boson in  $2l2q$  final states at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 1809 (2018) 101
- 910) “Search for a heavy right-handed W boson and a heavy neutrino in events with two same-flavor leptons and two jets at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 1805 (2018) no.05, 148
- 911) “Search for high-mass resonances in final states with a lepton and missing transverse momentum at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 1806 (2018) 128
- 912) “Search for a new scalar resonance decaying to a pair of Z bosons in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 1806 (2018) 127
- 913) “Observation of ttbar H production”, CMS Collaboration, Phys.Rev.Lett. 120 (2018) no.23, 231801
- 914) “Measurements of Higgs boson properties in the diphoton decay channel in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 1811 (2018) 185
- 915) “Search for  $t\bar{t}H$  production in the  $H \rightarrow b\bar{b}$  decay channel with leptonic t tbar decays in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 1903 (2019) 026
- 916) “Performance of the CMS muon detector and muon reconstruction with proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JINST 13 (2018) no.06, P06015

- 917) "Measurement of differential cross sections for Z boson production in association with jets in proton-proton collisions at  $\sqrt{s} = 13$  TeV", CMS Collaboration, Eur.Phys.J. C78 (2018) no.11, 965
- 918) "Search for disappearing tracks as a signature of new long-lived particles in proton-proton collisions at  $\sqrt{s} = 13$  TeV", CMS Collaboration, JHEP 1808 (2018) 016
- 919) "Elliptic flow of charm and strange hadrons in high-multiplicity pPb collisions at  $\sqrt{s_{NN}} = 8.16$  TeV", CMS Collaboration, Phys.Rev.Lett. 121 (2018) no.8, 082301
- 920) "Measurement of the top quark mass with lepton+jets final states using in  $pp$  collisions at  $\sqrt{s} = 13$  TeV", CMS Collaboration, Eur.Phys.J. C78 (2018) no.11, 891
- 921) "Measurement of prompt  $\Psi(2S)$  production cross sections in (2S) proton-lead and proton-proton collisions at  $\sqrt{s_{NN}} = 5.02$  TeV", CMS Collaboration, Phys.Lett. B790 (2019) 509-532
- 922) "Constraining gluon distributions in nuclei using dijets in proton-proton and proton-lead collisions at  $\sqrt{s_{NN}} = 5.02$  TeV", CMS Collaboration, Phys.Rev.Lett. 121 (2018) no.6, 062002
- 923) "Search for vector-like T and B quark pairs in final states with leptons at  $\sqrt{s} = 13$  TeV", CMS Collaboration, JHEP 1808 (2018) 177
- 924) "Search for an exotic decay of the Higgs boson to a pair of light pseudoscalars in the final state of two muons and two  $\tau$  leptons in proton-proton collisions at  $\sqrt{s} = 13$  TeV", CMS Collaboration, JHEP 1811 (2018) 018
- 925) "Measurement of the groomed jet mass in PbPb and pp collisions at  $\sqrt{s_{NN}} = 5.02$  TeV", CMS Collaboration, JHEP 1810 (2018) 161
- 926) "Search for top squarks decaying via four-body or chargino-mediated modes in single-lepton final states in proton-proton collisions at  $\sqrt{s} = 13$  TeV", CMS Collaboration, JHEP 1809 (2018) 065
- 927) "Search for black holes and sphalerons in high-multiplicity in proton-proton collisions at  $\sqrt{s} = 13$  TeV", CMS Collaboration, JHEP 1811 (2018) 042
- 928) "Measurement of the production cross section for single top quarks in association with W bosons in proton-proton collisions at  $\sqrt{s} = 13$  TeV", CMS Collaboration, JHEP 1810 (2018) 117
- 929) "Measurement of nuclear modification factors of (1S), (2S), and (3S) meso nsin PbPb collisions at  $\sqrt{s_{NN}} = 5.02$ ", CMS Collaboration, Phys.Lett. B790 (2019) 270-293
- 930) "Search for an exotic decay of the Higgs boson to a pair of light pseudoscalars in the final state with two b quarks and two  $\tau$  leptons in proton-proton collisions at  $\sqrt{s} = 13$  TeV", CMS Collaboration, Phys.Lett. B785 (2018) 462
- 931) "Constraints on models of scalar and vector leptoquarks decaying to a quark and a neutrino at  $\sqrt{s} = 13$  TeV", CMS Collaboration, Phys.Rev. D98 (2018) no.3, 032005

- 932) “Observation of the  $\chi_{b1}(3P)$  and  $\chi_{b2}(3P)$  and measurement of their masses”, CMS Collaboration, Phys.Rev.Lett. 121 (2018) 092002
- 933) “Search for beyond the standard model Higgs bosons decaying into a  $b\bar{b}$  pair in pp collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 1808 (2018) 113
- 934) “Search for Higgs boson pair production in the  $\gamma\gamma b\bar{b}$  final state in pp collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Phys.Lett. B788 (2019) 7-36
- 935) “Angular analysis of the decay  $B^+ \rightarrow K^+\mu^+\mu^-$  in proton-proton collisions at  $\sqrt{s} = 8$  TeV”, CMS Collaboration, Phys.Rev. D98 (2018) no.11, 112011
- 936) “Search for narrow and broad dijet resonances in proton-proton collisions at  $\sqrt{s} = 13$  TeV and constraints on dark matter mediators and other new particles”, CMS Collaboration, JHEP 1808 (2018) 130
- 937) “Measurement of the weak mixing angle using the forward-backward asymmetry of Drell-Yan events in pp collisions at 8 TeV”, CMS Collaboration, Eur.Phys.J. C78 (2018) no.9, 701
- 938) “Search for pair-produced resonances each decaying into at least four quarks in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Phys.Rev.Lett. 121 (2018) no.14, 141802
- 939) “Diamond detector technology, status and perspectives”, RD42 Collaboration, Nuclear Instrum.Meth.A (2018)
- 940) “Search for a singly produced third-generation scalar leptoquark decaying to a  $\tau$  lepton and a bottom quark in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 1807 (2018) 115
- 941) “Search for resonant pair production of Higgs bosons decaying to bottom quark-antiquark pairs in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 1808 (2018) 152
- 942) “Observation of the  $Z \rightarrow \psi l^+l^-$  decay in pp collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Phys.Rev.Lett. 121 (2018) no.14, 141801
- 943) “Search for dark matter produced in association with a Higgs boson decaying to  $\gamma\gamma$  or  $\tau^+\tau^-$  at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 1809 (2018) 046
- 944) “Measurements of properties of the Higgs boson decaying to a W boson pair in pp collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Phys.Lett. B791 (2019) 96
- 945) “Search for supersymmetric partners of electrons and muons in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Phys.Lett. B790 (2019) 140-166
- 946) “Search for the decay of a Higgs boson in the  $ll\gamma$  channel in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 1811 (2018) 152
- 947) “Search for heavy Majorana neutrinos in same-sign dilepton channels in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 1901 (2019) 122

- 948) "Measurement of differential cross sections for Z boson pair production in association with jets at  $\sqrt{s} = 8$  and 13 TeV", CMS Collaboration, Phys.Lett. B789 (2019) 19-44
- 949) "Measurement of charged particle spectra in minimum-bias events from proton-proton collisions at  $\sqrt{s} = 13$  TeV", CMS Collaboration, Eur.Phys.J. C78 (2018) no.9, 697
- 950) "Measurement of differential cross sections for inclusive isolated-photon and photon+jets production in proton-proton collisions at  $\sqrt{s} = 13$  TeV", CMS Collaboration, Eur.Phys.J. C79 (2019) no.1, 20
- 951) "Search for supersymmetry in events with a  $\tau$  lepton pair and missing transverse momentum in proton-proton collisions at  $\sqrt{s} = 13$  TeV", CMS Collaboration, JHEP 1811 (2018) 151
- 952) "Study of the underlying event in top quark pair production in pp collisions at 13 TeV", CMS Collaboration, Eur.Phys.J. C79 (2019) no.2, 123
- 953) "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", CMS Collaboration, JHEP 1811 (2018) 172
- 954) "Precision measurement of the structure of the CMS inner tracking system using nuclear interactions", CMS Collaborartion, JINST 13 (2018) no.10, P10034
- 955) "Measurement of inclusive and differential Higgs boson production cross sections in the diphoton decay channel in proton-proton collisions at  $\sqrt{s} = 13$  TeV", CMS Collaboration, JHEP 1901 (2019) 183
- 956) "Measurements of the differential jet cross section as a function of the jet mass in dijet events from proton-proton collisions at  $\sqrt{s} = 13$  TeV", CMS Collaboration, JHEP 1811 (2018) 113
- 957) "Search for the Higgs boson decaying to two muons in proton-proton collisions at  $\sqrt{s} = 13$  TeV", CMS Collaboration, Phys.Rev.Lett. 122 (2019) no.2, 021801
- 958) "Search for dark matter particles produced in association with a top quark pair at  $\sqrt{s} = 13$  TeV", CMS Collaboration, Phys.Rev.Lett. 122 (2019) no.1, 011803
- 959) "Searches for pair production of charginos and top squarks in final states with two oppositely charged leptons in proton-proton collisions at  $\sqrt{s} = 13$  TeV", CMS Collaboration, JHEP 1811 (2018) 079
- 960) "Search for a W' boson decaying to a  $\tau$  lepton and a neutrino in proton-proton collisions at  $\sqrt{s} = 13$  TeV", CMS Collaboration, Phys.Lett. B792 (2019) 107-131
- 961) "Search for narrow  $H\gamma$  resonances in proton-proton collisions at  $\sqrt{s} = 13$  TeV", CMS Collaboration, Phys.Rev.Lett. 122 (2019) no.8, 08180
- 962) "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", CMS Collaboration, JHEP 1901 (2019) 051

- 963) “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”, CMS Collaboration, JHEP 1901 (2019) 040
- 964) “Search for resonances in the mass spectrum of muon pairs produced in association with b quark jets in proton-proton collisions at  $\sqrt{s} = 8$  and 13 TeV”, CMS Collaboration, JHEP 1811 (2018) 161
- 965) “Evidence for the associated production of a single top quark and a photon in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Phys.Rev.Lett. 121 (2018) no.22, 221802
- 966) “Search for pair-produced resonances decaying to quark pairs in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Phys.Rev. D98 (2018) no.11, 112014
- 967) “Search for long-lived particles with displaced vertices in multijet events in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Phys.Rev. D98 (2018) no.9, 092011
- 968) “Search for an  $L_\mu - L_\tau$  gauge boson using  $Z \rightarrow 4\mu$  events in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Phys.Lett. B792 (2019) 345-368
- 969) “Search for pair production of second-generation leptoquarks at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Phys.Rev. D99 (2019) no.3, 032014
- 970) “Search for a charged Higgs boson decaying to charm and bottom quarks in proton-proton collisions at  $\sqrt{s} = 8$  TeV”, CMS Collaboration, JHEP 1811 (2018) 115
- 971) “Measurement of jet substructure observables in tt events from proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Phys.Rev. D98 (2018) no.9, 092014
- 972) “Observation of Higgs boson decay to bottom quarks”, CMS Collaboration, Phys.Rev.Lett. 121 (2018) no.12, 121801
- 973) “Charged-particle nuclear modification factors in XeXe collisions at  $\sqrt{s_{NN}} = 5.44$  TeV”, CMS Collaboration, JHEP 1810 (2018) 138
- 974) “Search for physics beyond the standard model in high-mass diphoton events from proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Phys.Rev. D98 (2018) no.9, 092001
- 975) “Performance of reconstruction and identification of  $\tau$  leptons decaying to hadrons and  $\nu_\tau$  in pp collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JINST 13 (2018) no.10, P10005
- 976) “Studies of  $B_{s2}^*(5840)^0$  and  $B_{s1}(5830)^0$  mesons including the observation of the  $B_{s2}^*(5840)^0 \rightarrow B^0 K_s^0$  decay in proton-proton collisions at  $\sqrt{s} = 8$  TeV”, CMS Collaboration, Eur.Phys.J. C78 (2018) no.11, 939
- 977) “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  $\tau$  leptons”, CMS Collaboration, JHEP 1906 (2019) 093

- 978) "Search for leptoquarks coupled to third-generation quarks in proton-proton collisions at  $\sqrt{s} = 13$  TeV", CMS Collaboration, Phys.Rev.Lett. 121 (2018) no.24, 241802
- 979) "Search for invisible decays of a Higgs boson produced through vector boson fusion in proton-proton collisions at  $\sqrt{s} = 13$  TeV", CMS Collaboration, Phys.Lett. B793 (2019) 520-551
- 980) "Jet shapes of isolated photon-tagged jets in PbPb and pp collisions at  $\sqrt{s_{NN}} = 5.02$  TeV", CMS Collaboration, Phys.Rev.Lett. 122 (2019) no.15, 152001
- 981) "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", CMS Collaboration, Eur.Phys.J. C79 (2019) 90
- 982) "Combined measurements of Higgs boson couplings in proton-proton collisions at  $\sqrt{s} = 13$  TeV", CMS Collaboration, Eur.Phys.J. C79 (2019) no.5, 421
- 983) "Measurement of exclusive photoproduction from protons in pPb collisions at  $\sqrt{s_{NN}} = 5.02$  TeV", CMS Collaboration, Eur.Phys.J. C79 (2019) no.3, 277
- 984) "Search for new physics in final states with a single photon and missing transverse momentum in proton-proton collisions at  $\sqrt{s} = 13$  TeV", CMS Collaboration, JHEP 1902 (2019) 074
- 985) "Observation of prompt J/ $\Psi$  meson elliptic flow in high-multiplicity pPb collisions at  $\sqrt{s_{NN}} = 8.16$  TeV", CMS Collaboration, Phys.Lett. B791 (2019) 172-194
- 986) "Measurement of  $B_s^0$  meson production in pp and PbPb collisions at  $\sqrt{s_{NN}} = 5.02$  TeV", CMS Collaboration, Phys.Lett. B796 (2019) 168-1902
- 987) "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", CMS Collaboration, JHEP 1903 (2019) 082
- 988) "Evidence for light-by-light scattering and searches for axion-like particles in ultra-peripheral PbPb collisions at  $\sqrt{s_{NN}} = 5.02$  TeV", CMS Collaboration, Phys.Lett. B797 (2019) 134826
- 989) "Centrality and pseudorapidity dependence of the transverse energy density in pPb collisions at  $\sqrt{s_{NN}} = 5.02$  TeV", CMS Collaboration, Phys.Rev. C100 (2019) no.2, 0249025
- 990) "Search for resonant  $t\bar{t}$  production in proton-proton collisions at  $\sqrt{s} = 13$  TeV", CMS Collaboration, JHEP 1904 (2019) 031
- 991) "Search for pair-produced three-jet resonances in proton-proton collisions at  $\sqrt{s}$  TeV", CMS Collaboration, Phys.Rev. D99 (2019) no.1, 012010
- 992) "Search for new particles decaying to a jet and an emerging jet", CMS Collaboration, JHEP 1902 (2019) 179

- 993) “Search for rare decays of Z and Higgs bosons to J/ $\Psi$  and a photon in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Eur.Phys.J. C79 (2019) no.2, 94
- 994) “Studies of beauty suppression via nonprompt D<sup>0</sup> mesons in PbPb collisions at  $Q^2 = 4$  GeV<sup>2</sup>”, CMS Collaboration, Phys.Rev.Lett. 123 (2019) no.2, 022001
- 995) “Search for low-mass resonances decaying into bottom quark-antiquark pairs in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Phys.Rev. D99 (2019) no.1, 012005
- 996) “Search for nonresonant Higgs boson pair production in the  $b\bar{b}b\bar{b}$  final state at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 1904 (2019) 112
- 997) “Event shape variables measured using multijet final states in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 1812 (2018) 117
- 998) “Search for heavy neutrinos and third-generation leptoquarks in hadronic states of two  $\tau$  leptons and two jets in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 1903 (2019) 170
- 999) “Search for pair production of first-generation scalar leptoquarks at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Phys.Rev. D99 (2019) no.5, 052002
- 1000) “Search for excited leptons in  $ll\gamma$  final states in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 1904 (2019) 015
- 1001) “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”, CMS Collaboration, Eur.Phys.J. C79 (2019) no.3, 280
- 1002) “Measurements of  $t\bar{t}$  differential cross sections in proton-proton collisions at  $\sqrt{s} = 13$  TeV using events containing two leptons”, CMS Collaboration, JHEP 1902 (2019) 149
- 1003) “Search for a W’ boson decaying to a vector-like quark and a top or bottom quark in the all-jets final state”, CMS Collaboration, JHEP 1903 (2019) 127
- 1004) “Search for long-lived particles decaying into displaced jets in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Phys.Rev. D99 (2019) no.3, 032011
- 1005) “Search for a standard model-like Higgs boson in the mass range between 70 and 110 GeV in the diphoton final state in proton-proton collisions at  $\sqrt{s} = 8$  and 13 TeV”, CMS Collaboration, Phys.Lett. B793 (2019) 320-347
- 1006) “Combination of searches for Higgs boson pair production in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Phys.Rev.Lett. 122 (2019) no.12, 121803
- 1007) “Search for associated production of a Higgs boson and a single top quark in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Phys.Rev. D99 (2019) no.9, 092005
- 1008) “Search for resonant production of second-generation sleptons with same-sign dimuon events in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Eur.Phys.J. C79 (2019) no.4, 305

1009) “Search for dark matter in events with a leptoquark and missing transverse momentum in proton-proton collisions at 13 TeV”, CMS Collaboration, Phys.Lett. B795 (2019) 76-99

1010) “Latest Results on Radiation Tolerance of Diamond Detectors”, RD42 Collaboration, RD42 Collaboration, PoS LeptonPhoton2019 (2019) 079

1011) “ Beam test results of 3D pixel detectors constructed with poly-crystalline CVD diamond”, RD42 Collaboration, PoS LeptonPhoton2019 (2019) 080

1012) “Measurement of associated production of a W boson and a charm quark in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Eur.Phys.J. C79 (2019) no.3, 269

1013) “A search for pair production of new light bosons decaying into muons in proton-proton collisions at 13 TeV”, CMS Collaboration, Phys.Lett. B796 (2019) 131-154

1014) “Measurement of inclusive very forward jet cross sections in proton-lead collisions at  $\sqrt{s_{NN}} = 5.02$  TeV”, CMS Collaboration, JHEP 1905 (2019) 043

1015) “Search for supersymmetry in events with a photon, a lepton, and missing transverse momentum in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 1901 (2019) 154

1016) “Measurement of the energy density as a function of pseudorapidity in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Eur.Phys.J. C79 (2019) no.5, 391

1017) “Observation of single top quark production in association with a Z boson in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Phys.Rev.Lett. 122 (2019) no.13, 132003

1018) “Search for an exotic decay of the Higgs boson to a pair of light pseudoscalars in the final state with two muons and two b quarks in pp collisions at 13 TeV”, CMS Collaboration, Phys.Lett. B795 (2019) 398-423

1019) “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”, CMS Collaboration, JHEP 1903 (2019) 031

1020) “Measurement and interpretation of differential cross sections for Higgs boson production at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Phys.Lett. B792 (2019) 369-396

1021) “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”, CMS Collaboration, Eur.Phys.J. C79 (2019) no.3, 208

1022) “Search for vector-like quarks in events with two oppositely charged leptons and jets in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Eur.Phys.J. C79 (2019) no.4, 364

- 1023) “Search for contact interactions and large extra dimensions in the dilepton mass spectra from proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 1904 (2019) 114
- 1024) “Measurement of the differential Drell-Yan cross section in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 1912 (2019) 059
- 1025) “Measurement of the  $t\bar{t}$  production cross section, the top quark mass, and the strong coupling constant using dilepton events in pp collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Eur.Phys.J. C79 (2019) no.5, 368
- 1026) “Measurement of the top quark mass in the all-jets final state at  $\sqrt{s} = 13$  TeV and combination with the lepton+jets channel” CMS Collaboration, Eur.Phys.J. C79 (2019) no.4, 313
- 1027) “Measurement of the single top quark and antiquark production cross sections in the  $t$  channel and their ratio in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Phys.Lett. B800 (2020) 135042
- 1028) “Measurements of the Higgs boson width and anomalous HVV couplings from on-shell and off-shell production in the four-lepton final state”, CMS Collaboration, Phys.Rev. D99 (2019) no.11, 112003
- 1029) “Search for the pair production of light top squarks in the  $e^\pm \mu^\mp$  final state in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 1903 (2019) 101
- 1030) “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”, CMS Collaboration, JHEP 1903 (2019) 141
- 1031) “Measurements of the pp $\rightarrow$ WZ inclusive and differential production cross section and constraints on charged anomalous triple gauge couplings at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 1904 (2019) 122
- 1032) “Measurement of electroweak WZ boson production and search for new physics in WZ + two jets events in pp collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Phys.Lett. B795 (2019) 281-307
- 1033) “Search for supersymmetry in events with a photon, jets, b-jets, and missing transverse momentum in proton-proton collisions at 13 TeV”, CMS Collaboration, Eur.Phys.J. C79 (2019) no.5, 444
- 1034) “Charged-particle angular correlations in XeXe collisions at  $\sqrt{s_{NN}} = 5.44$  TeV”, CMS Collaboration, Phys.Rev. C100 (2019) no.4, 044902
- 1035) “Search for W boson decays to three charged pions”, CMS Collaboration, Phys.Rev.Lett. 122 (2019) no.15, 151802
- 1036) “Observation of Two Excited  $B_c^+$  States and Measurement of the  $B_c^+(2S)$  Mass in pp Collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Phys.Rev.Lett. 122 (2019) no.13, 132001
- 1037) “Measurement of exclusive  $\rho(770)^0$  photoproduction in ultraperipheral pPb collisions at  $\sqrt{s_{NN}} = 5.02$  TeV”, CMS Collaboration, Eur.Phys.J. C79 (2019) no.8, 702

- 1038) “Pseudorapidity distributions of charged hadrons in xenon-xenon collisions at  $\sqrt{s_{NN}} = 5.44$  TeV”, CMS Collaboration, Phys.Lett. B799 (2019) 135049
- 1039) “Azimuthal separation in nearly back-to-back jet topologies in inclusive 2- and 3-jet events in pp collisions at  $\sqrt{s} = 13$  TeV”, Eur.Phys.J. C79 (2019) no.9, 773
- 1040) “Combinations of single-top-quark production cross-section measurements and  $|f_{LV}V_{tb}|$  determinations at  $\sqrt{s} = 7$  and 8 TeV with the ATLAS and CMS experiments”, ATLAS and CMS Collaborations, JHEP 1905 (2019) 088
- 1041) “Search for a heavy pseudoscalar boson decaying to a Z and a Higgs boson at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Eur.Phys.J. C79 (2019) no.7, 564
- 1042) “An embedding technique to determine  $\tau\tau$  backgrounds in proton-proton collision data”, CMS Collaboration, JINST 14 (2019) no.06, P06032
- 1043) “Measurement of electroweak production of a W boson in association with two jets in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Eur.Phys.J. C80 (2020) no.1, 43
- 1044) “Search for charged Higgs bosons in the  $H^\pm \rightarrow \tau^\pm \nu_\tau$  decay channel in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 1907 (2019) 142
- 1045) “Performance of missing transverse momentum reconstruction in proton-proton collisions at  $\sqrt{s} = 13$  TeV using the CMS detector”, CMS Collaboration, JINST 14 (2019) no.07, P07004
- 1046) “Constraints on anomalous HVV couplings from the production of Higgs bosons decaying to  $\tau$  lepton pairs”, CMS Collaboration, Phys.Rev. D100 (2019) no.11, 112002
- 1047) “Search for supersymmetry in final states with photons and missing transverse momentum in proton-proton collisions at 13 TeV”, CMS Collaboration, JHEP 1906 (2019) 143
- 1048) “Search for a low-mass  $\tau^+\tau^-$  resonance in association with a bottom quark in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 1905 (2019) 210
- 1049) “Search for new physics in top quark production in dilepton final states in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Eur.Phys.J. C79 (2019) no.11, 886
- 1050) “Extraction and validation of a new set of CMS PYTHIA8 tunes from underlying-event measurements”, CMS Collaboration, Eur.Phys.J. C80 (2020) no.1, 4
- 1051) “Results on radiation tolerance of diamond detectors”, RD42 Collaboration, Nucl.Instrum.Meth. A924 (2019) 241-244
- 1052) “Search for resonances decaying to a pair of Higgs bosons in the  $b\bar{b}q\bar{q}\ell\nu$  final state in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 1910 (2019) 125
- 1053) “Multiparticle correlation studies in pPb collisions at  $\sqrt{s_{NN}} = 8.16$  TeV”, CMS Collaboration, Phys.Rev. C101 (2020) no.1, 0149129

1054) “Observation of nuclear modifications in W boson production in pPb collisions at  $\sqrt{s_{NN}} = 8.16$  TeV”, CMS Collaboration, Phys.Lett. B800 (2020) 135048

1055) “Search for the production of  $W^\pm W^\pm W^\mp$  events at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Phys.Rev. D100 (2019) no.1, 012004

1056) “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”, CMS Collaboration, Phys.Rev.Lett. 123 (2019) no.13, 131802

1057) “Search for anomalous electroweak production of vector boson pairs in association with two jets in proton-proton collisions at 13 TeV”, CMS Collaboration, Phys.Lett. B798 (2019) 134985

1058) “Correlations of azimuthal anisotropy Fourier harmonics in pPb collisions at  $\sqrt{s_{NN}} = 8.16$  TeV”, CMS Collaboration, Phys.Lett.B 819 (2021) 136385

1059) “Search for low-mass quark-antiquark resonances produced in association with a photon at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Phys.Rev.Lett. 123 (2019) 23, 231803

1060) “Search for Higgs and Z boson decays to  $J/\psi$  or  $\Upsilon$  pairs in the four-muon final state in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Phys.Lett. B797 (2019) 134811

1061) “Search for vector-like leptons in multilepton final states in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Phys.Rev. D100 (2019) no.5, 052003

1062) “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”, CMS Collaboration, JHEP 1908 (2019) 150

1063) “Combination of CMS searches for heavy resonances decaying to pairs of bosons or leptons”, Combination of CMS searches for heavy resonances decaying to pairs of bosons or leptons, CMS Collaboration, Phys.Lett. B798 (2019) 134952

1064) “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”, CMS Collaboration, JHEP 1911 (2019) 082

1065) “Production of  $\Lambda_c^+$  baryons in proton-proton and lead-lead collisions at  $\sqrt{s_{NN}} = 8.16$  TeV”, CMS Collaboration, Phys.Lett.B 803 (2020) 135328

1066) “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”, CMS Collaboration, Eur.Phys.J.C 80 (2020) 3, 237

1067) “Search for long-lived particles using nonprompt jets and missing transverse momentum with proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Phys.Lett. B797 (2019) 134876

1068) “Search for pair production of vectorlike quarks in the fully hadronic final state”, CMS Collaboration, Phys.Rev. D100 (2019) no.7, 072001

- 1069) “Combined search for supersymmetry with photons in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Phys.Lett.B 801 (2020) 135183
- 1070) “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”, CMS Collaboration, Phys.Rev. D100 (2019) no.7, 072007
- 1071) “Search for MSSM Higgs bosons decaying to  $\mu^+\mu^-$  in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Phys.Lett. B798 (2019) 134992
- 1072) “Measurement of the top quark polarization and  $t\bar{t}$  spin correlations using dilepton final states in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Phys.Rev. D100 (2019) no.7, 072002
- 1073) “Study of the  $B^+ \rightarrow J/\psi \bar{\Lambda} p$  decay in proton-proton collisions at  $\sqrt{s} = 8$  TeV”, CMS Collaboration, JHEP 12 (2019) 100
- 1074) “Search for physics beyond the standard model in events with overlapping photons and jets”, CMS Collaboration, Phys.Rev.Lett. 123 (2019) no.24, 2418015
- 1075) “Search for light pseudoscalar boson pairs produced from decays of the 125 GeV Higgs boson in final states with two muons and two nearby tracks in pp collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Phys.Lett. B800 (2020) 135087
- 1076) “Measurements of triple-differential cross sections for inclusive isolated-photon+jet events in pp collisions at  $\sqrt{s} = 8$  TeV”, CMS Collaboration, Eur.Phys.J. C79 (2019) no.11, 969
- 1077) “Measurement of differential cross sections and charge ratios for t-channel single top quark production in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Eur.Phys.J.C 80 (2020) 5, 370
- 1078) “Search for anomalous triple gauge couplings in WW and WZ production in lepton + jet events in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 1912 (2019) 062
- 1079) “Search for heavy Higgs bosons decaying to a top quark pair in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 04 (2020) 171
- 1080) “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”, CMS Collaboration, Eur.Phys.J. C79 (2019) no.11, 893
- 1081) “Search for dark matter particles produced in association with a Higgs boson in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 03 (2020) 025
- 1082) “Search for dark photons in decays of Higgs bosons produced in association with Z bosons in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 1910 (2019) 139
- 1083) “Search for supersymmetry in proton-proton collisions at 13 TeV in final states with jets and missing transverse momentum”, CMS Collaboration, JHEP 1910 (2019) 244

1084) “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”, CMS Collaboration, Eur.Phys.J.C 80 (2020) 2, 75

1085) “Search for supersymmetry using Higgs boson to diphoton decays at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 1911 (2019) 109

1086) “Search for a charged Higgs boson decaying into top and bottom quarks in proton-proton collisions at  $\sqrt{s} = 13$  TeV in events with electrons or muons”, CMS Collaboration, JHEP 2001 (2020) 096

1087) “A study of the radiation tolerance of poly-crystalline and single-crystalline CVD diamond to 800 MeV and 24 GeV protons”, RD42 Collaboration, J.Phys. D52 (2019) 465103

1088) “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”, CMS Collaboration, Eur.Phys.J.C 80 (2020) 1, 3

1089) “Search for low mass vector resonances decaying into quark-antiquark pairs in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Phys.Rev.D 100 (2019) 11, 112007

1090) “Measurements of differential Z boson production cross sections in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 1912 (2019) 061

1091) “Search for electroweak production of a vector-like T quark using fully hadronic final states”, CMS Collaboration, JHEP 01 (2020) 036

1092) “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”, CMS Collaboration, Phys.Lett.B 803 (2020) 135285

1093) “Evidence for WW production from double-parton interactions in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Eur.Phys.J.C 80 (2020) 1, 41

1094) “Search for long-lived particles using delayed photons in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Phys.Rev. D100 (2019) no.11, 112003

1095) “Running of the top quark mass from proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Phys.Lett.B 803 (2020) 135263

1096) “Calibration of the CMS hadron calorimeters using proton-proton collision data at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JINST 15 (2020) 05, P05002

1097) “Search for supersymmetry with a compressed mass spectrum in events with a soft  $\tau$  lepton, a highly energetic jet, and large missing transverse momentum in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Phys.Rev.Lett. 124 (2020) 041803

1098) “Study of  $J/\Psi$  meson production from jet fragmentation in pp collisions at  $\sqrt{s} = 8$  TeV”, CMS Collaboration, Phys.Lett.B 804 (2020) 135409

1099) “Strange hadron production in pp and pPb collisions at  $\sqrt{s_{NN}} = 5.02$  TeV”, CMS Collaboration, Phys.Rev.C 101 (2020) 6, 064906

1100) “The DAQ and control system for the CMS Phase-1 pixel detector upgrade”, CMS Collaboration, JINST 14 (2019) no.10, P10017

1101) “Recent Results from Polycrystalline CVD Diamond Detectors”, RD42 Collaboration, submitted for publication, arXiv:1910.07621

1102) “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”, CMS Collaboration, Eur.Phys.J.C 80 (2020) 6, 534

1103) “Bose-Einstein correlations of charged hadrons in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 03 (2020) 014

1104) “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”, CMS Collaboration, JHEP 03 (2020) 065

1105) “Measurement of properties of  $B_s^0 \rightarrow \mu^+ \mu^-$  decays and search for  $B^0 \rightarrow \mu^+ \mu^-$  with the CMS experiment”, CMS Collaboration, JHEP 04 (2020) 188

1106) “Search for top squark pair production in a final state with two tau leptons in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 02 (2020) 015

1107) “Studies of charm quark diffusion inside jets using PbPb and pp collisions at  $\sqrt{s_{NN}} = 5.02$  TeV”, CMS Collaboration, Phys.Rev.Lett. 125 (2020) 10, 102001

1108) “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”, CMS Collaboration, Phys.Rev.Lett. 124 (2020) 20, 202001

1109) “Observation of the  $\Lambda_b^0 \rightarrow J/\Psi \Lambda \phi$  decay in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Phys.Lett. B802 (2020) 135203

1110) “Search for new neutral Higgs bosons through the  $H \rightarrow ZA \rightarrow \ell^+ \ell^- b\bar{b}$  process in pp collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 03 (2020) 055

1111) “Search for dijet resonances using events with three jets in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Phys.Lett.B 805 (2020) 135448

1112) “Search for high mass dijet resonances with a new background prediction method in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 05 (2020) 033

1113) “Search for physics beyond the standard model in multilepton final states in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 03 (2020) 051

1114) “Search for supersymmetry in pp collisions at  $\sqrt{s} = 13$  TeV with  $137 \text{ fb}^{-1}$  in final states with a single lepton using the sum of masses of large-radius jets”, CMS Collaboration, Phys.Rev.D 101 (2020) 5, 052010

1115) “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”, CMS Collaboration, JHEP 03 (2020) 103

- 1116) “Measurement of the top quark pair production cross section in dilepton final states containing one  $\tau$  lepton in pp collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 02 (2020) 1914
- 1117) “Search for a heavy Higgs boson decaying to a pair of W bosons in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 03 (2020) 034
- 1118) “A search for the standard model Higgs boson decaying to charm quarks”, CMS Collaboration, JHEP 03 (2020) 131
- 1119) “Performance of the reconstruction and identification of high-momentum muons in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JINST 15 (2020) 02, P02027
- 1120) “Determination of the strong coupling constant  $\alpha_S(z)$  from measurements of inclusive  $W^\pm$  and Z boson production cross sections in proton-proton collisions at  $\sqrt{s} = 7$  and 8 TeV”, CMS Collaboration, JHEP 06 (2020) 018
- 1121) “Search for a narrow resonance lighter than 200 GeV decaying to a pair of muons in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Phys.Rev.Lett. 124 (2020) 13, 131802
- 1122) “A deep neural network for simultaneous estimation of b jet energy and resolution”, CMS Collaboration, Comput.Softw.Big Sci. 4 (2020) 1
- 1123) “Constraints on the  $\chi_{c1}$  versus  $\chi_{c2}$  polarizations in proton-proton collisions at  $\sqrt{s} = 8$  TeV”, CMS Collaboration, Phys.Rev.Lett. 124 (2020) 16, 162002
- 1124) “Beam Test Results of 3D Pixel Detectors Constructed with poly-crystalline CVD Diamonds”, RD42 Collaboration, PoS LeptonPhoton2019 (2019) 080
- 1125) “Search for direct top squark pair production in events with one lepton, jets, and missing transverse momentum at 13 TeV with the CMS experiment”, CMS Collaboration, JHEP 05 (2020) 032
- 1126) “Probing the chiral magnetic wave in pPb and PbPb collisions at sNN=5.02TeV using charge-dependent azimuthal anisotropies”, CMS Collaboration, Phys. Rev. C100 (2019) no.6, 064908
- 1127) “Measurement of the top quark forward-backward production asymmetry and the anomalous chromoelectric and chromomagnetic moments in pp collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 06 (2020) 146
- 1128) “A deep neural network to search for new long-lived particles decaying to jets”, CMS Collaboration, Mach.Learn.Sci.Tech. 1 (2020) 035012
- 1129) “Experimental Study of Different Silicon Sensor Options for the Upgrade of the CMS Outer Tracker”, CMS Collaboration, JINST 15 (2020) 04, P04017
- 1130) “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”, CMS Collaboration, JHEP 05 (2020) 052

- 1131) “Study of excited  $\Lambda_b^0$  states decaying to  $\Lambda_b^0\pi^+\pi^-$  in proton-proton collisions at  $\sqrt{s} = 13 \text{ TeV}$ ”, CMS Collaboration, Phys.Lett.B 803 (2020) 135345
- 1132) “Measurements with silicon photomultipliers of dose-rate effects in the radiation damage of plastic scintillator tiles using silicon photomultipliers”, CMS Collaboration, JINST 15 (2020) 06, P06009
- 1133) “Measurement of the associated production of a Z boson with charm or bottom quark jets in proton-proton collisions at  $\sqrt{s} = 13 \text{ TeV}$ ”, CMS Collaboration, Phys.Rev.D 102 (2020) 3, 032007
- 1134) “Search for charged Higgs bosons decaying into a top and a bottom quark in the all-jet final state of pp collisions at  $\sqrt{s} = 13 \text{ TeV}$ ”, CMS Collaboration, JHEP 07 (2020) 126
- 1135) “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  $\sqrt{s} = 13 \text{ TeV}$ ”, CMS Collaboration, Eur.Phys.J.C 80 (2020) 8, 752
- 1136) “Measurement of the  $\Upsilon(1S)$  pair production cross section and search for resonances decaying to  $\Upsilon(1S)\mu^+\mu^-$  in proton-proton collisions at  $\sqrt{s} = 13 \text{ TeV}$ ”, CMS Collaboration, Phys.Lett.B 808 (2020) 135578
- 1137) “A measurement of the Higgs boson mass in the diphoton decay channel”, CMS Collaboration, Phys.Lett.B 805 (2020) 135425
- 1138) “Measurement of the cross section for electroweak production of a Z boson, a photon and two jets in proton-proton collisions at  $\sqrt{s} = 13 \text{ TeV}$  and constraints on anomalous quartic couplings”, CMS Collaboration, JHEP 06 (2020) 076
- 1139) “New Test Beam results of 3D and pad detectors constructed with poly-crystalline CVD diamond”, RD42 Collaboration, Nucl.Instrum.Meth.A 958 (2020) 162675
- 1140) “Measurement of single-diffractive dijet production in proton-proton collisions at  $\sqrt{s} = 8 \text{ TeV}$  with the CMS and TOTEM experiments”, CMS and TOTEM Collaborations, Eur.Phys.J.C 80 (2020) 12, 1164, Eur.Phys.J.C 81 (2021) 5, 383 (erratum)
- 1141) “Pileup mitigation at CMS in 13 TeV data”, CMS Collaboration, JINST 15 (2020) 09, P09018
- 1142) “Study of central exclusive  $\pi^+\pi^-$  production in proton-proton collisions at  $\sqrt{s} = 5.02 \text{ and } 13 \text{ TeV}$ ”, CMS Collaboration, Eur.Phys.J.C 80 (2020) 8, 718
- 1143) “Measurement of the cross section for  $t\bar{t}$  production with additional jets and b jets in pp collisions at  $\sqrt{s} = 13 \text{ TeV}$ ”, CMS Collaboration, JHEP 07 (2020) 125
- 1144) “Beam test performance of prototype silicon detectors for the Outer Tracker for the Phase-2 Upgrade of CMS”, CMS Collaboration, JINST 15 (2020) 03, P03014
- 1145) “Measurements of ttH production and the CP structure of the Yukawa interaction between the Higgs boson and top quark in the diphoton decay channel”, CMS Collaboration, Phys.Rev.Lett. 125 (2020) 6, 061801

- 1146) “A pixel detector ROIC with a 3-bit, 40 Msps ADC per pixel for HL LHC”, F. Fahimi, B. Bentele, J.P. Cumalat, D. Christian, L. Dalmonte, FERMILAB-PUB-20-138-PPD
- 1147) “The production of isolated photons in PbPb and pp collisions at  $\sqrt{s_{NN}} = 5.02$  TeV”, CMS Collaboration, JHEP 07 (2020) 116
- 1148) “Measurement of quark- and gluon-like jet fractions using jet charge in PbPb and pp collisions at 5.02 TeV”, CMS Collaboration, JHEP 07 (2020) 115
- 1149) “Search for disappearing tracks in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Phys.Lett.B 806 (2020) 1355023
- 1150) “Identification of heavy, energetic, hadronically decaying particles using machine-learning techniques”, CMS Collaboration, JINST 15 (2020) 06, P06005
- 1151) “Measurement of CKM matrix elements in single top quark t-channel production in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Phys.Lett.B 808 (2020) 135609
- 1152) “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”, CMS Collaboration, Phys.Lett.B 809 (2020) 135710
- 1153) “Combination of the W boson polarization measurements in top quark decays using ATLAS and CMS data at  $\sqrt{s} = 8$  TeV”, CMS Collaboration, JHEP 08 (2020) 08, 051
- 1154) “Observation of the  $B_s^0 \rightarrow X(3872) \phi$  decay”, CMS Collaboration, Phys.Rev.Lett. 125 (2020) 15, 152001
- 1155) “Dependence of inclusive jet production on the anti- $k_T$  distance parameter in pp collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 12 (2020) 082
- 1156) “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”, CMS Collaboration, JHEP 08 (2020) 139
- 1157) “Search for a light charged Higgs boson in the  $H^\pm \rightarrow cs$  channel in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Phys.Rev.D 102 (2020) 7, 072001
- 1158) “Measurement of b jet shapes in proton-proton collisions at  $\sqrt{s} = 5.02$  TeV”, CMS Collaboration, JHEP 05 (2021) 054
- 1159) “Search for resonant pair production of Higgs bosons in the bbZZ channel in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Phys.Rev.D 102 (2020) 3, 032003
- 1160) “Measurement of the azimuthal anisotropy of  $\Upsilon(1S)$  and  $\Upsilon(2S)$  mesons in PbPb collisions at  $\sqrt{s_{NN}} = 5.02$  TeV”, CMS Collaboration, Phys.Lett. B819 (2021) 136385
- 1161) “Performance of the CMS Level-1 trigger in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JINST 15 (2020) 10, P10017
- 1162) “Observation of the production of three massive gauge bosons at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Phys.Rev.Lett. 125 (2020) 15, 151802

1163) “Evidence for top quark production in nucleus-nucleus collisions”, CMS Collaboration, Phys.Rev.Lett. 125 (2020) 22, 222001

1164) “Inclusive search for highly boosted Higgs bosons decaying to bottom quark-antiquark pairs in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 12 (2020) 085

1165) “Reconstruction of signal amplitudes in the CMS electromagnetic calorimeter in the presence of overlapping proton-proton interactions”, CMS Collaboration, JINST 15 (2020) 10, P10002

1166) “Measurement of the inclusive and differential Higgs boson production cross sections in the leptonic WW decay mode  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 03 (2021) 003

1167) “Measurement of the  $CP$ -violating phase  $\phi_s$  in the  $B_s^0 \rightarrow J/\psi\phi(1020) \rightarrow \mu^+\mu^-K^+K^-$  channel in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Phys.Lett.B816 (2021) 136188

1168) “Investigation into the event-activity dependence of  $\Upsilon(nS)$  relative production in proton-proton collisions at  $\sqrt{s} = 7$  TeV”, CMS Collaboration, JHEP 11 (2020) 001.

1169) “Search for decays of the 125 GeV Higgs boson into a Z boson and a  $\rho$  or  $\phi$  meson”, CMS Collaboration, JHEP 11 (2020) 039.

1170) “Search for the lepton flavor violating decay  $\tau \rightarrow 3\mu$  in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 01 (2021) 163

1171) “Measurements of the W boson rapidity, helicity, double-differential cross sections, and charge asymmetry in pp collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Phys.Rev.D 102 (2020) 9, 092012

1172) “Search for supersymmetry in proton-proton collisions at  $\sqrt{s} = 13$  TeV in events with high-momentum Z bosons and missing transverse momentum”, CMS Collaboration, JHEP 09 (2020) 149.

1173) “Search for dark matter produced in association with a leptonically decaying Z boson in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Eur.Phys.J.C 81 (2021) 1, 13

1174) “Search for top squark pair production using dilepton final states in pp collision data collected at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Eur.Phys.J.C 81 (2021) 1, 3

1175) “Evidence for electroweak production of four charged leptons and two jets in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Phys.Lett.B 812 (2021) 135992

1176) “Measurement of differential  $t\bar{t}$  production cross sections using top quarks at large transverse momenta in pp collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Phys.Rev.D 103 (2021) 5 052008

1177) “Measurement of  $B_c(2S)^+$  and  $B_c^*(2S)^+$  cross section ratios in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Phys. Rev. D 102 (2020) 9, 092007.

- 1178) “A search for bottom-type, vector-like quark pair production in a fully hadronic final state in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Phys.Rev.D 102 (2020) 112004
- 1179) “Observation of electroweak production of  $W\gamma$  with two jets in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Phys.Lett.B 811 (2020) 135988
- 1180) “ $W^+W^-$  boson pair production in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, Phys. Rev. D 102 (2020) 9, 092001.
- 1181) “Measurements of  $pp \rightarrow ZZ$  production cross sections and constraints on anomalous triple gauge couplings at  $\sqrt{s}= 13$  TeV”, CMS Collaboration, Eur. Phys. J.C 81 (2021) 3,200
- 1182) “Evidence for Higgs boson decay to a pair of muons”, CMS Collaboration, Phys.Rev.D 102 (2020) 9, 092013
- 1183) “Studies of charm and beauty hadron long-range correlations in pp and pPb collisions at LHC energies”, CMS Collaboration, Phys.Lett.B 813 (2021) 136036
- 1184) “Measurement of the top quark Yukawa coupling from  $t\bar{t}$  kinematic distributions in the dilepton final state in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Phys.Rev.D 102 (2020) 9, 092013
- 1185) “Measurements of production cross sections of polarized same-sign W boson pairs in association with two jets in proton-proton collisions at  $\sqrt{s}= 13$  TeV”, CMS Collaboration, Phys.Lett.B 812 (2021) 136018
- 1186) “Measurement of prompt  $\bar{D}^0$  and  $D^0$  meson azimuthal anisotropy and search for strong electric fields in PbPb collisions at  $\sqrt{s_{NN}}= 5.02$  TeV”, CMS Collaboration, Phys.Lett.B 816 (2021) 136253
- 1187) “Search for dark photons in Higgs boson production via vector boson fusion in proton-proton collisions at  $\sqrt{s}= 13$  TeV”, CMS Collaboration, JHEP 03 (2021) 011
- 1188) “MUSiC: a model unspecific search for new physics in proton-proton collisions at  $\sqrt{s}= 13$  TeV”, CMS Collaboration, Eur. Phys. J.C 81 (2021) 7,629
- 1189) “Angular analysis of the decay  $B^+ \rightarrow K^*(892)^+\mu^+\mu^-$  in proton-proton collisions at  $\sqrt{s}= 8$  TeV”, CMS Collaboration, JHEP 04 (2021) 124
- 1190) “The very forward CASTOR calorimeter of the CMS experiment”, CMS Collaboration, JINST 16 (2021) 02, P02010
- 1191) “Development and validation of HERWIG 7 tunes from CMS underlying-event measurements”, CMS Collaboration, Eur.Phys. J.C 81 (2021) 4, 312
- 1192) “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”, CMS Collaboration, Eur. Phys. J.C 81 (2021) 4, 378

- 1193) "Observation of forward neutron multiplicity dependence of dimuon acoplanarity in ultraperipheral PbPb collisions at  $\sqrt{s_{NN}} = 5.02$  TeV", CMS Collaboration, Phys.Rev.Lett. 127 (2021) 12, 122001
- 1194) "Search for the rare decay of the W boson into a pion and a photon in proton-proton collisions at  $\sqrt{s} = 13$  TeV", CMS Collaboration, Phys. Lett. B819 (2021) 136409
- 1195) "A Study of the Radiation Tolerance of CVD Diamond to 70 MeV Protons, Fast Neutrons and 200 MeV Pions", RD42 Collaboration, Sensors 20 (2020) 22, 6648
- 1196) "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", CMS Collaboration, JHEP 03 (2021) 257
- 1197) "Search for long-lived particles using displaced jets in proton-proton collisions at  $\sqrt{s} = 13$  TeV", CMS Collaboration, Phys.Rev. D 104 (2021) 1,012015
- 1198) "Measurement of differential cross sections for Z bosons produced in association with charm jets in pp collisions at  $\sqrt{s} = 13$  TeV", CMS Collaboration, JHEP 04 (2021) 109
- 1199) "Search for new physics in top quark production with additional leptons in proton-proton collisions at  $\sqrt{s} = 13$  TeV using effective field theory", CMS Collaboration, JHEP 03 (2021) 095
- 1200) "Search for singly and pair-produced leptoquarks coupling to third-generation fermions in proton-proton collisions at  $\sqrt{s} = 13$  TeV", CMS Collaboration, Phys.Lett.B819 (2021) 136446
- 1201) "Electron and photon reconstruction and identification with the CMS experiment at the CERN LHC", CMS Collaboration, JINST 16 (2021) 05, P05014
- 1202) "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", CMS Collaboration, JHEP 04 (2021) 123
- 1203) "First measurement of the cross section for top quark pair production with additional charm jets using dileptonic final states in pp collisions at  $\sqrt{s} = 13$  TeV", CMS Collaboration, Phys.Lett.B820 (2021) 136565
- 1204) "Measurement of the Z boson differential production cross section using its invisible decay mode neutrino/neutrino-bar in proton-proton collisions at  $\sqrt{s} = 13$  TeV", CMS Collaboration, JHEP 05 (2021) 205
- 1205) "In-medium modification of dijets in PbPb collisions at  $\sqrt{s_{NN}} = 5.02$  TeV", CMS Collaboration, JHEP 05 (2021) 116
- 1206) "The CMS Phase-1 Pixel Detector Upgrade", CMS Collaboration, JINST 16 (2021) 02, P0
- 1207) ' Measurements of the differential cross sections of the production of Z + jets and  $\gamma$  + jets and of Z boson emission collinear with a jet in pp collisions at  $\sqrt{s} = 13$  TeV", CMS Collaboration, JHEP 05 (2021) 285

- 1208) “Observation of a New Excited Beauty Strange Baryon Decaying to  $\Xi_b^- \pi^+ \pi^-$ ”, CMS Collaboration, Phys. Rev. Lett. 126 (2021) 25, 252003
- 1209) “Performance of the CMS muon trigger system in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JINST 16 (2021) P07001
- 1210) “Hard color-singlet exchange in dijet events in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, TOTEM and CMS Collaborations, Phys. Rev. D 104 (2021) 032009
- 1211) “Search for top squarks in final states with two top quarks and several light-flavor jets in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Phys.Rev. D104 (2021) 3, 032006
- 1212) “Search for a heavy vector resonance decaying to a Z boson and a Higgs boson in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Eur. Phys. J.C81 (2021) 8, 688
- 1213) “Measurements of angular distance and momentum ratio distributions in three-jet and Z + two-jet final states in pp collisions”, CMS Collaboration, Eur. Phys. J.C81 (2021) 8, 852
- 1214) “Evidence for X(3872) in PbPb collisions and studies of its prompt production at  $\sqrt{s_{NN}} = 5.02$  TeV”, CMS CCollaboration, Phys.Rev.Lett. 128 (2022) 3, 032001
- 1215) “First measurement of large area jet transverse momentum spectra in heavy-ion collisions”, CMS Collaboration, JHEP 05 (2021) 284
- 1216) “Study of Drell-Yan dimuon production in proton-lead collisions at  $\sqrt{s_{NN}} = 8.16$  TeV”, CMS Collaboration, JHEP 05 (2021) 182
- 1217) “Search for top squark production in fully-hadronic final states in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Phys. Rev. D104 (2021) 5, 052001
- 1218) “Search for resonant and nonresonant new phenomena in high-mass dilepton final states at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 07 (2021) 208
- 1219) “Using Z boson events to study parton-medium interactions in PbPb collisions”, CMS Collaboration, Phys. Rev. Lett. 128 (2021) 12, 122301
- 1220) “Measurements of production cross sections of the Higgs boson in the four-lepton final state in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Eur.Phys.J.C81 (2021) 6, 488
- 1221) “Measurements of Higgs boson production cross sections and couplings in the diphoton decay channel at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 07 (2021) 027
- 1222) “Constraints on the Initial State of Pb-Pb Collisions via Measurements of Z-Boson Yields and Azimuthal Anisotropy at  $\sqrt{s_{NN}} = 5.02$  TeV”, CMS Collaboration, Phys. Rev. Lett. 127 (2021) 10, 102002
- 1223) “Precision luminosity measurement in proton-proton collisions at  $\sqrt{s} = 13$  TeV in 2015 and 2016 at CMS”, CMS Collaboration, Eur.Phys.J.C81 (2021) 9, 800

- 1224) “Search for W’ bosons decaying to a top and a bottom quark at  $\sqrt{s} = 13$  TeV in the hadronic final state”, CMS Collaboration, Phys.Lett. B820 (2021) 136535
- 1225) “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”, CMS Collaboration, Eur.Phys.J.C81 (2021) 8, 723
- 1226) “Constraints on anomalous Higgs boson couplings to vector bosons and fermions in its production and decay using the four-lepton final state”, CMS Collaboration, Phys.Rev.D104 (2021) 5, 052004
- 1227) “Search for a heavy resonance decaying to a top quark and a W boson at  $\sqrt{s} = 13$  TeV in the fully hadronic final state”, CMS Collaboration, JHEP 12 (2021) 106
- 1228) “Search for long-lived particles decaying to jets with displaced vertices in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Phys.Rev. D104 (2021) 5, 052011
- 1229) “Search for lepton-flavor violating decays of the Higgs boson in the  $\mu\tau$  and  $e\tau$  final states in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Phys.Rev. D104 (2021) 5, 032013
- 1230) “Search for strongly interacting massive particles generating trackless jets in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Eur.Phys.J.C 82 (2022) 3, 213
- 1231) “Measurements of the  $pp \rightarrow W^\pm\gamma\gamma$  and  $pp \rightarrow Z\gamma\gamma$  cross sections at  $\sqrt{s} = 13$  TeV and limits on anomalous quartic gauge couplings”, CMS Collaboration, JHEP 10 (2021) 174
- 1232) “Study of Z boson plus jets events using variables sensitive to double-parton scattering in pp collisions at 13 TeV”, CMS Collaboration, JHEP 10 (2021) 176
- 1233) “Search for a heavy Higgs boson decaying into two lighter Higgs bosons in the  $\tau\tau bb$  final state at 13 TeV”, CMS Collaboration, JHEP 11 (2021) 057
- 1234) “Search for  $W\gamma$  resonances in proton-proton collisions at  $\sqrt{s} = 13$  TeV using hadronic decays of Lorentz-boosted W bosons”, CMS Collaboration, Phys.Lett.B 826 (2022) 136888
- 1235) “Measurement of the electroweak production of  $Z\gamma$  and two jets in proton-proton collisions at  $\sqrt{s} = 13$  TeV and constraints on anomalous quartic gauge couplings”, CMS Collaboration, Phys. Rev. D104 (2021) 072001
- 1236) “Fragmentation of jets containing a prompt  $J/\psi$  meson in PbPb and pp collisions at  $\sqrt{s_{NN}} = 5.02$  TeV”, CMS Collaboration, Phys.Lett.B 825 (2022) 136842
- 1237) “Search for electroweak production of charginos and neutralinos in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 04 (2022) 147
- 1238) “Measurements of the Electroweak Diboson Production Cross Sections in Proton-Proton Collisions at  $\sqrt{s_{NN}} = 5.02$  TeV Using Leptonic Decays”, CMS Collaboration, Phys.rev.Lett. 127 (2021) 19, 191801

- 1239) “Measurement of the inclusive and differential  $t\bar{t}\gamma$  cross sections in the single-lepton channel and EFT interpretation at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 12 (2021) 180
- 1240) “Measurement of prompt open-charm production cross sections in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 11 (2021) 225
- 1241) “Search for long-lived particles decaying in the CMS endcap muon detectors in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Phys.Rev.Lett. 127 (2021) 26, 261804
- 1242) “Combined searches for the production of supersymmetric top quark partners in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Eur.Phys.J.C81 (2021) 11, 970
- 1243) “Measurement of the inclusive and differential Higgs boson production cross sections in the decay mode to a pair of  $\tau$  leptons in pp collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 12 (2021) 180
- 1244) “Search for chargino-neutralino production in events with Higgs and W bosons using  $137 \text{ fb}^{-1}$  of proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 10 (2021) 045
- 1245) “Search for new particles in events with energetic jets and large missing transverse momentum in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 11 (2021) 153
- 1246) “Probing effective field theory operators in the associated production of top quarks with a Z boson in multilepton final states at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 12 (2021) 083
- 1247) “Measurement of differential  $t\bar{t}$  production cross sections in the full kinematic range using lepton+jets events from proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Phys.Rev. D104 (2021) 9, 092013
- 1248) “Measurement of the top quark mass using events with a single reconstructed top quark in pp collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 12 (2021) 161
- 1249) “Observation of tW production in the single-lepton channel in pp collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 11 (2021) 111
- 1250) “Observation of  $B_s^0$  mesons and measurement of the  $B_s^0/B^+$  yield ratio in PbPb collisions at  $\sqrt{s_{NN}} = 5.02$  TeV”, CMS Collaboration, Phys.Lett.B 829 (2022) 137062
- 1251) “Study of quark and gluon jet substructure in Z+jet and dijet events from pp collisions”, CMS Collaboration, JHEP 01 (2022) 188
- 1252) “Search for heavy resonances decaying to WW, WZ, or WH boson pairs in the lepton plus merged jet final state in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Phys.Rev.D 105 (2022) 3, 032008
- 1253) “Search for heavy resonances decaying to  $Z(\nu\bar{\nu})V(qq')$  in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Phys.Rev.D 106 (2022) 1, 012004

1254) “Measurement of double-parton scattering in inclusive production of four jets with low transverse momentum in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 01 (2022) 177

1255) “Analysis of the CP structure of the Yukawa coupling between the Higgs boson and  $\tau$  leptons in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 06 (2022) 012

1256) “Search for long-lived particles decaying to leptons with large impact parameter in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Eur.Phys.J.C 82 (2022) 2, 1539

1257) “First search for exclusive diphoton production at high mass with tagged protons in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Phys.Rev.Lett. 129 (2022) 1, 011801

1258) “Measurement of the inclusive and differential WZ production cross sections, polarization angles, and triple gauge couplings in pp collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 07 (2022) 032

1259) “Search for long-lived particles produced in association with a Z boson in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 03 (2022) 160

1260) “Study of dijet events with large rapidity separation in proton-proton collisions at  $\sqrt{s} = 2.76$  TeV”, CMS Collaboration, JHEP 03 (2022) 189

1261) “Observation of triple  $J/\psi$  meson production in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Nature Phys. 19 (2023) 3, 338-350, Nature Phys.19 (2023) 3, 461 (erratum)

1262) “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”, CMS Collaboration, JHEP 04 (2022) 091

1263) “Strategies and performance of the CMS silicon tracker alignment during LHC Run 2”, CMS Collaboration, Nucl.Instrum.Meth.A 1037 (2022) 166795

1264) “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”, CMS Collaboration, JHEP 04 (2022) 048

1265) “Measurement and QCD analysis of double-differential inclusive jet cross sections in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 02 (2022) 142

1266) “Selection of the silicon sensor thickness for the Phase-2 upgrade of the CMS Outer Tracker”, CMS Collaboration, JINST 16 (2021) 11, P11028

1267) “Search for heavy resonances decaying to ZZ or ZW and axion-like particles mediating nonresonant ZZ or ZH production at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 04 (2022) 087

1268) “Measurement of  $W^\pm\gamma$  differential cross sections in proton-proton collisions at  $\sqrt{s} = 13$  TeV and effective field theory constraints”, CMS Collaboration, Phys.Rev.D 105 (2022) 5, 052003

- 1269) “Measurements of the associated production of a W boson and a charm quark in proton-proton collisions at  $\sqrt{s} = 8$  TeV”, CMS Collaboration, Eur.Phys.J.C 82 (2022) 12, 1094
- 1270) “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”, CMS Collaboration, JHEP 05 (2022) 005
- 1271) “Search for a right-handed W boson and a heavy neutrino in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 04 (2022) 047
- 1272) “Evidence for WW/WZ vector boson scattering in the decay channel  $\ell\nu qq$  produced in association with two jets in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Phys.Lett.B 834 (2022) 137438
- 1273) “Measurement of the inclusive  $t\bar{t}$  production cross section in proton-proton collisions at  $\sqrt{s} = 5.02$  TeV”, CMS Collaboration, JHEP 04 (2022) 144
- 1274) “Measurement of the production cross section for Z + b jets in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Phys.Rev.D 105 (2022) 9, 092014
- 1275) “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”, CMS Collaboration, JHEP 02 (2022) 169
- 1276) “Search for resonant production of strongly coupled dark matter in proton-proton collisions at 13 TeV”, CMS Collaboration, JHEP 06 (2022) 156
- 1277) “Probing charm quark dynamics via multiparticle correlations in PbPb collisions at  $\sqrt{s_{NN}} = 5.02$  TeV”, CMS Collaboration, Phys.Rev.Lett. 129 (2022) 2, 022001
- 1278) “Search for resonances decaying to three W bosons in the hadronic final state in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Phys.Rev.D 106 (2022) 1, 012002
- 1279) “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”, CMS Collaboration, JHEP 04 (2022) 062
- 1280) “Search for single production of a vector-like T quark decaying to a top quark and a Z boson in the final state with jets and missing transverse momentum at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 05 (2022) 093
- 1281) “Search for high-mass resonances decaying to a jet and a Lorentz-boosted resonance in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Phys.Lett.B 832 (2022) 137263
- 1282) “Observation of the  $B_c^+$  meson in PbPb and pp collisions at  $\sqrt{s_{NN}} = 5.02$  TeV”, CMS Collaboration, Phys.Rev.Lett. 128 (2022) 25, 252301
- 1283) “Search for higgsinos decaying to two Higgs bosons and missing transverse momentum in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 05 (2022) 014

1284) “Search for long-lived heavy neutral leptons with displaced vertices in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 07 (2022) 081

1285) “Measurement of the inclusive and differential  $t\bar{t}\gamma$  cross sections in the dilepton channel and effective field theory interpretation in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 05 (2022) 091

1286) “Search for charged-lepton flavor violation in top quark production and decay in pp collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 06 (2022) 082

1287) “Precision measurement of the W boson decay branching fractions in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Phys.Rev.D 105 (2022) 7, 072008

1288) “Search for resonances decaying to three W bosons in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Phys.Rev.Lett. 129 (2022) 2, 021802

1289) “Identification of hadronic tau lepton decays using a deep neural network”, CMS Collaboration, JINST 17 (2022) P07023

1290) “Observation of  $B^0 \rightarrow \psi(2S)K_S^0\pi^+\pi^-$  and  $B_S^0 \rightarrow \psi(2S)K_s^0$  decays”, CMS Collaboration, Eur.Phys.J.C 82 (2022) 499

1291) “Search for invisible decays of the Higgs boson produced via vector boson fusion in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Phys.Rev.D 105 (2022) 9, 092007

1292) “Search for new physics in the lepton plus missing transverse momentum final state in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 07 (2022) 067

1293) “Measurement of the Higgs boson width and evidence of its off-shell contributions to ZZ production”, CMS Collaboration, iNature Phys. 18 (2022) 11, 1329-1334

1294) “Inclusive nonresonant multilepton probes of new phenomena at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Phys.Rev.D 105 (2022) 11, 112007

1295) “Search for Higgs boson pair production in the four b quark final state in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Coollaboration, Phys.Rev.Lett. 129 (2022) 8, 081802

1296) “Nuclear modification of  $\Upsilon$  states in pPb collisions at  $\sqrt{s_{NN}} = 5.02$  TeV”, CMS Coollaboration, Phys.Lett.B 835 (2022) 137397

1297) “Measurement of the Drell-Yan forward-backward asymmetry at high dilepton masses in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 2022 (2022) 08, 063

1298) “Search for a W’ boson decaying to a vector-like quark and a top or bottom quark in the all-jets final state at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 09 (2022) 088

1299) “Search for new particles in an extended Higgs sector with four b quarks in the final state at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Phys.Lett.B 835 (2022) 137566

1300) “Search for a massive scalar resonance decaying to a light scalar and a Higgs boson in the four b quarks final state with boosted topology”, CMS Collaboration, Phys.Lett.B 842 (2023) 137392

1301) “Reconstruction of decays to merged photons using end-to-end deep learning with domain continuation in the CMS detector”, CMS Collaboration, Phys.Rev.D 108 (2023) 5, 052002

1302) “Measurements of Higgs boson production in the decay channel with a pair of  $\tau$  leptons in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Eur.Phys.J.C 83 (2023) 7, 562

1303) “Search for Higgs boson decays to a Z boson and a photon in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 05 (2023) 233

1304) “Search for light Higgs bosons from supersymmetric cascade decays in pppp collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Eur.Phys.J.C 83 (2023) 7, 571

1305) “Two-particle azimuthal correlations in  $\gamma p$  interactions using pPb collisions at  $\sqrt{s_{NN}} = 8.16$  TeV”, CMS Collaboration, Phys.Lett.B 844 (2023) 137905

1306) “Strange hadron collectivity in pPb and PbPb collisions”, CMS Collaboration, JHEP 05 (2023) 007

1307) “Azimuthal Correlations within Exclusive Dijets with Large Momentum Transfer in Photon-Lead Collisions”, CMS Collaboration, Phys.Rev.Lett. 131 (2023) 5, 051901

1308) “Test beam performance of a CBC3-based mini-module for the Phase-2 CMS Outer Tracker before and after neutron irradiation”, Tracker Group of the CMS Collaboration, JINST 18 (2023) 04, P04001

1309) “Search for narrow resonances in the b-tagged dijet mass spectrum in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Phys.Rev.D 108 (2023) 1, 012009

1310) “Search for CP violation using  $t\bar{t}$  events in the lepton+jets channel in pp collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 06 (2023) 081

1311) “CMS pythia 8 colour reconnection tunes based on underlying-event data”, CMS Collaboration, Eur.Phys.J.C 83 (2023) 7, 587

1312) “Measurement of differential cross sections for the production of a Z boson in association with jets in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Phys.Rev.D 108 (2023) 052004

1313) “Constraints on anomalous Higgs boson couplings to vector bosons and fermions from the production of Higgs bosons using the  $\tau\tau$  final state”, CMS Collaboration, Phys.Rev.D 108 (2023) 3, 032013

1314) “Measurement of the mass dependence of the transverse momentum of lepton pairs in Drell-Yan production in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Eur.Phys.J.C 83 (2023) 7, 628

- 1315) “Observation of electroweak W+W pair production in association with two jets in proton-proton collisions at  $\sqrt{s} = 13\text{TeV}$ ”, CMS Collaboration, Phys.Lett.B 841 (2023) 137495
- 1316) “Search for Higgs Boson Decay to a Charm Quark-Antiquark Pair in Proton-Proton Collisions at  $\sqrt{s} = 13\text{TeV}$ ”, CMS Collaboration, Phys.Rev.Lett. 131 (2023) 6, 061801
- 1317) “Search for Nonresonant Pair Production of Highly Energetic Higgs Bosons Decaying to Bottom Quarks”, CMS Collaboration, Phys.Rev.Lett. 131 (2023) 4, 041803
- 1318) “Search for heavy resonances and quantum black holes in e, e, and final states in proton-proton collisions at  $\sqrt{s} = 13\text{ TeV}$ ”, CMS Collaboration, JHEP 05 (2023) 227
- 1319) “Search for CP violating top quark couplings in pp collisions at  $\sqrt{s} = 13\text{ TeV}$ ”, CMS Collaboration, JHEP 07 (2023) 023
- 1320) “Search for long-lived particles decaying to a pair of muons in proton-proton collisions at  $\sqrt{s} = 13\text{ TeV}$ ”, CMS Collaboration, JHEP 05 (2023) 228
- 1321) “Search for electroweak production of charginos and neutralinos at  $\sqrt{s}=13\text{TeV}$  in final states containing hadronic decays of WW, WZ, or WH and missing transverse momentum”, CMS Collaboration, Phys.Lett.B 842 (2023) 137460
- 1322) “Combination of inclusive top-quark pair production cross-section measurements using ATLAS and CMS data at  $\sqrt{s} = 7$  and  $8\text{ TeV}$ ” ATLAS and CMS Collaborations, JHEP 07 (2023) 213
- 1323) “Observation of same-sign WW production from double parton scattering in proton-proton collisions at  $\sqrt{s} = 13\text{ TeV}$ ”, CMS Collaboration, Phys.Rev.Lett. 131 (2023) 091803
- 1324) “Search for Higgs boson decays into Z and J/ and for Higgs and Z boson decays into J/ or Y pairs in pp collisions at  $\sqrt{s} = 13\text{ TeV}$ ”, CMS Collaboration, Phys.Lett.B 842 (2023) 137534
- 1325) “Observation of  $\tau$  lepton pair production in ultraperipheral lead-lead collisions at  $\sqrt{s_{NN}}= 5.02\text{ TeV}$ ”, CMS Collaboration, Phys.Rev.Lett. 131 (2023) 151803
- 1326) ‘ Precision measurement of the Z boson invisible width in pp collisions at  $\sqrt{s} = 13\text{ TeV}$ ”, CMS Collaboration, Phys.Lett.B 842 (2023) 137563
- 1327) “Probing Heavy Majorana Neutrinos and the Weinberg Operator through Vector Boson Fusion Processes in Proton-Proton Collisions at  $\sqrt{s} = 13\text{TeV}$ ”, CMS Collaboration, Phys.Rev.Lett. 131 (2023) 1, 011803
- 1328) “Search for nonresonant Higgs boson pair production in final state with two bottom quarks and two tau leptons in proton-proton collisions at  $\sqrt{s} = 13\text{ TeV}$ ”, CMS Collaboration, Phys.Lett.B 842 (2023) 137531
- 1329) “Measurements of the Higgs boson production cross section and couplings in the W boson pair decay channel in proton-proton collisions at  $\sqrt{s} = 13\text{TeV}$ ”, CMS Collaboration, Eur.Phys.J.C 83 (2023) 7, 667

1330) “Search for resonant and nonresonant production of pairs of dijet resonances in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 07 (2023) 161

1331) “Search for nonresonant Higgs boson pair production in the four leptons plus two jets final state in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 06 (2023) 130

1332) “Search for Higgs boson pairs decaying to  $WW^*WW^*$ ,  $WW^*\tau\tau$ , and  $\tau\tau\tau\tau$  in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 07 (2023) 095

1333) “Beam test performance of a prototype module with Short Strip ASICs for the CMS HL-LHC tracker upgrade”, Tracker Group of the CMS Collaboration, JINST 17 (2022) 06, P06039

1334) “A portrait of the Higgs boson by the CMS experiment ten years after the discovery”, CMS Collaboration, Nature 607 (2022) 7917, 60-68

1335) “Search for a charged Higgs boson decaying into a heavy neutral Higgs boson and a W boson in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 09 (2023) 032

1336) “Search for direct pair production of supersymmetric partners of  $\tau$  leptons in the final state with two hadronically decaying  $\tau$  leptons and missing transverse momentum in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Phys.Rev.D 108 (2023) 1, 012011

1337) “Measurement of the top quark pole mass using  $t\bar{t}$ +jet events in the dilepton final state in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 07 (2023) 077

1338) “Search for new physics in the lepton plus missing transverse momentum final state in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 07 (2022) 067

1339) “Search for the Higgs boson decay to a pair of electrons in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Phys.Lett.B 846 (2023) 137783

1340) “Measurement of inclusive and differential cross sections for single top quark production in association with a W boson in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 07 (2023) 046

1341) “Search for the exotic decay of the Higgs boson into two light pseudoscalars with four photons in the final state in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 07 (2023) 148

1342) “Search for CPCP violation in ttH and tH production in multilepton channels in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 07 (2023) 092

1343) “Searches for additional Higgs bosons and for vector leptoquarks in  $\tau\tau$  final states in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 07 (2023) 073

1344) “Measurement of the  $t\bar{t}$  charge asymmetry in events with highly Lorentz-boosted top quarks in pp collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Phys.Lett.B 846 (2023) 137703

1345) “Measurement of the cross section of top quark-antiquark pair production in association with a W boson in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 07 (2023) 219

1346) “Search for pair-produced vector-like leptons in final states with third-generation leptons and at least three b quark jets in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Phys.Lett.B 846 (2023) 137713

1347) “Measurement of the Higgs boson inclusive and differential fiducial production cross sections in the diphoton decay channel with pp collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 07 (2023) 091

1348) “Search for new physics using effective field theory in 13 TeV pp collision events that contain a top quark pair and a boosted Z or Higgs boson”, CMS Collaboration, Phys.Rev.D 108 (2023) 032008

1349) “Search for exotic Higgs boson decays  $H \rightarrow AA \rightarrow 4\gamma$  with events containing two merged diphotons in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Phys.Rev.Lett. 131 (2023) 101801

1350) “Search for pair production of vector-like quarks in leptonic final states in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 07 (2023) 020

1351) “Search for new heavy resonances decaying to WW, WZ, ZZ, WH, or ZH boson pairs in the all-jets final state in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Phys.Lett.B 844 (2023) 137813

1352) “Search for a heavy composite Majorana neutrino in events with dilepton signatures from proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Phys.Lett.B 843 (2023) 137803

1353) “Proton reconstruction with the CMS-TOTEM Precision Proton Spectrometer”, CMS and TOTEM Collaborations, JINST 18 (2023) 09, P09009

1354) “Azimuthal anisotropy of dijet events in PbPb collisions at  $\sqrt{s_{NN}} = 5.02$  TeV”, CMS Collaboration, JHEP 07 (2023) 139

1355) “Search for medium effects using jets from bottom quarks in PbPb collisions at  $\sqrt{s_{NN}} = 5.02$  TeV”, CMS Collaboration, Phys.Lett.B 844 (2023) 137849

1356) “Measurements of jet multiplicity and jet transverse momentum in multijet events in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Eur.Phys.J.C 83 (2023) 8, 742

1357) “Azimuthal correlations in Z + jets events in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Eur.Phys.J.C 83 (2023) 8, 722

1358) “Measurement of the differential  $t\bar{t}$  production cross section as a function of the jet mass and extraction of the top quark mass in hadronic decays of boosted top quarks”, CMS Collaboration, Eur.Phys.J.C 83 (2023) 7, 560

1359) “Search for supersymmetry in final states with a single electron or muon using angular correlations and heavy-object identification in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 09 (2023) 149

1360) “Search for Higgs Boson and Observation of Z Boson through their Decay into a Charm Quark-Antiquark Pair in Boosted Topologies in Proton-Proton Collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Phys.Rev.Lett. 131 (2023) 4, 041801

1361) “Search for high-mass exclusive  $\gamma\gamma \rightarrow WW$  and  $\gamma\gamma \rightarrow ZZ$  production in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS and TOTEM Collaborations, JHEP 07 (2023) 229

1362) “Measurement of the dependence of the hadron production fraction ratio  $f_s/f_u$  and  $f_d/f_u$  on B meson kinematic variables in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Phys.Rev.Lett. 131 (2023) 121901

1363) “Evaluation of HPK n+n+-pp planar pixel sensors for the CMS Phase-2 upgrade”, Tracker Group of the CMS Collaboration, Nucl.Instrum.Meth.A 1053 (2023) 168326

1364) “Search for long-lived particles using out-of-time trackless jets in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 07 (2023) 210

1365) “Measurement of the  $B_s^0 \rightarrow \mu^+ \mu^-$  decay properties and search for the  $B^0 \rightarrow \mu^+ \mu^-$  decay in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Phys.Lett.B 842 (2023) 137955

1366) “Search for new physics in the  $\tau$  lepton plus missing transverse momentum final state in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 09 (2023) 051

1367) “Measurement of the electroweak production of  $W\gamma$  in association with two jets in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Phys.Rev.D 108 (2023) 3, 032017

1368) “First measurement of the forward rapidity gap distribution in pPb collisions at  $\sqrt{s_{NN}}=8.16\text{TeV}$ ”, CMS Collaboration, Phys.Rev.D 108 (2023) 9, 092004

1369) “Search for top squarks in the four-body decay mode with single lepton final states in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 06 (2023) 060

1370) “Measurement of the top quark mass using a profile likelihood approach with the lepton + jets final states in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Eur.Phys.J.C 83 (2023) 10, 963

1371) “Search for a vector-like quark  $T' \rightarrow tH$  via the diphoton decay mode of the Higgs boson in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 09 (2023) 057”

1372) “A search for decays of the Higgs boson to invisible particles in events with a top-antitop quark pair or a vector boson in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Eur.Phys.J.C 83 (2023) 10, 933

1373) “Evidence for four-top quark production in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Phys.Lett.B 844 (2023) 138076

1374) "Progress in Diamond Detectors", RD42 Collaboration, PoS Pixel2022 (2023) 095

1375) "First measurement of the top quark pair production cross section in proton-proton collisions at  $\sqrt{s} = 13.6$  TeV", CMS Collaboration, JHEP 08 (2023) 204

1376) "Probing small Bjorken- $x$  nuclear gluonic structure via coherent  $J/\psi$  photoproduction in ultraperipheral PbPb collisions at  $\sqrt{s_{NN}} = 5.02$  TeV", CMS Collaboration, Phys.Rev.Lett. 131 (2023) 26, 262301

1377) "Observation of the  $\Upsilon(3S)$  meson and suppression of  $\Upsilon$  states in PbPb collisions at  $\sqrt{s_{NN}} = 5.02$  TeV", CMS Collaboration, submitted for publication, e-Print: 2303.17026

1378) "Search for top squark pair production in a final state with at least one hadronically decaying tau lepton in proton-proton collisions at  $\sqrt{s} = 13$  TeV", CMS Collaboration, JHEP 07 (2023) 110

1379) "Observation of the rare decay of the  $\eta$  meson to four muons", CMS Collaboration, Phys.Rev.Lett. 131 (2023) 9, 091903

1380) "Measurements of inclusive and differential cross sections for the Higgs boson production and decay to four-leptons in proton-proton collisions at  $\sqrt{s} = 13$  TeV", CMS Collaboration, JHEP 08 (2023) 040

1381) "Search for resonances in events with photon and jet final states in proton-proton collisions at  $\sqrt{s} = 13$  TeV", CMS Collaboration, JHEP 12 (2023) 189

1382) "Search for inelastic dark matter in events with two displaced muons and missing transverse momentum in proton-proton collisions at  $\sqrt{s} = 13$  TeV", CMS Collaboration, Phys.Rev.Lett. 132 (2024) 4, 041802

1383) "Observation of four top quark production in proton-proton collisions at  $\sqrt{s} = 13$  TeV", CMS Collaboration, Phys.Lett.B 847 (2023) 138290

1384) "Measurements of the azimuthal anisotropy of prompt and nonprompt charmonia in PbPb collisions at  $\sqrt{s_{NN}} = 5.02$  TeV", CMS Collaboration, JHEP 10 (2023) 115

1385) "Search for the lepton-flavor violating decay of the Higgs boson and additional Higgs bosons in the  $e\mu$  final state in proton-proton collisions at  $\sqrt{s} = 13$  TeV", CMS Collaboration, Phys.Rev.D 108 (2023) 7, 072004

1386) "Observation of new structure in the  $J/\psi J/\psi$  mass spectrum in proton-proton collisions at  $\sqrt{s} = 13$  TeV", CMS Collaboration, submitted for publication, e-Print: 2306.07164

1387) "Performance of the local reconstruction algorithms for the CMS hadron calorimeter with Run 2 data", CMS Collaboration, JINST 18 (2023) 11, P11017

1388) "Two-particle Bose-Einstein correlations and their Lvy parameters in PbPb collisions at  $\sqrt{s_{NN}} = 5.02$  TeV", CMS Collaboration, submitted for publication, e-Print: 2306.11574

1389) "Evaluation of planar silicon pixel sensors with the RD53A readout chip for the Phase-2 Upgrade of the CMS Inner Tracker", Tracker Group of the CMS Collaborations, JINST 18 (2023) 11, P11015

1390) “Search for Z’ bosons decaying to pairs of heavy Majorana neutrinos in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 11 (2023) 181

1391) “Search for a high-mass dimuon resonance produced in association with b quark jets at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 10 (2023) 043

1392) “Study of charm hadronization with prompt  $\Lambda_c^+$  baryons in proton-proton and lead-lead collisions at  $\sqrt{s_{NN}} = 5.02$  TeV”, CMS Collaboration, JHEP 01 (2024) 128

1393) “Multiplicity and transverse momentum dependence of charge-balance functions in pPb and PbPb collisions at LHC energies”, CMS Collaboration, submitted for publication, e-Print: 2307.11185

1394) “Search for physics beyond the standard model in top quark production with additional leptons in the context of effective field theory”, CMS Collaboration, JHEP 12 (2023) 068

1395) “Search for new physics in multijet events with at least one photon and large missing transverse momentum in proton-proton collisions at 13 TeV”, CMS Collaboration, JHEP 10 (2023) 046

1396) “Measurement of the Higgs boson production via vector boson fusion and its decay into bottom quarks in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, submitted for publication, e-Print: 2308.01253

1397) “Measurement of the production cross section for a W boson in association with a charm quark in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, Eur.Phys.J.C 84 (2024) 27

1398) “Search for scalar leptoquarks produced in lepton-quark collisions and coupled to  $\tau$  leptons”, CMS Collaboration, submitted for publication, e-Print: 2308.06143

1399) “Search for a third-generation leptoquark coupled to a  $\tau$  lepton and a b quark through single, pair, and nonresonant production in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, submitted for publication, e-Print: 2308.07826

1400) “Luminosity determination using Z boson production at the CMS experiment”, CMS Collaboration, Eur.Phys.J.C 84 (2024) 1, 26

1401) “Development of the CMS detector for the CERN LHC Run 3”, CMS Collaboration, submitted for publication, e-Print: 2309.05466

1402) “Measurement of the  $\tau$  lepton polarization in Z boson decays in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 01 (2024) 101

1403) “Inclusive and differential cross section measurements of  $t\bar{t}bb$  production in the lepton+jets channel at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, submitted for publication, e-Print: 2309.14442

1404) “Search for direct production of GeV-scale resonances decaying to a pair of muons in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, JHEP 12 (2023) 070

1405) “Search for supersymmetry in final states with disappearing tracks in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, submitted for publication, e-Print: 2309.16823

1406) “Search for a new resonance decaying into two spin-0 bosons in a final state with two photons and two bottom quarks in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, submitted for publication, e-Print: 2310.01643

1407) “Study of azimuthal anisotropy of  $\Upsilon(1S)$  mesons in pPb collisions at  $\sqrt{s_{NN}} = 8.16$  TeV”, CMS Collaboration, submitted for publication, e-Print: 2310.03233

1408) “Search for stealth supersymmetry in final states with two photons, jets, and low missing transverse momentum in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, submitted for publication, e-Print: 2310.03154

1409) “Muon identification using multivariate techniques in the CMS experiment in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, submitted for publication, e-Print: 2310.03844

1410) “Observation of  $WW\gamma$  production and search for  $H\gamma$  production in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, submitted for publication, e-Print: 2310.05164

1411) “Search for central exclusive production of top quark pairs in proton-proton collisions at  $\sqrt{s} = 13$  TeV with tagged protons”, CMS Collaboration, submitted for publication, e-Print: 2310.11231

1412) “Search for dark matter particles in  $W^+W^-$  events with transverse momentum imbalance in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, submitted for publication, e-Print: 2310.12229

1413) “Search for narrow trijet resonances in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, submitted for publication, e-Print: 2310.14023

1414) “Search for  $W'$  bosons decaying to a top and a bottom quark in leptonic final states in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, submitted for publication, e-Print: 2310.18893

1415) “Search for an exotic decay of the Higgs boson into a Z boson and a pseudoscalar particle in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, submitted for publication, e-Print: 2311.00130

1416) “Search for high-mass exclusive diphoton production with tagged protons in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS AND TOTEM Collaborations, submitted for publication, e-Print: 2311.02725

1417) “Search for new Higgs bosons via same-sign top quark pair production in association with a jet in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, submitted for publication, e-Print: 2311.03261

1418) “Higher-order moments of the elliptic flow distribution in PbPb collisions at  $\sqrt{s_{NN}} = 5.02$  TeV”, CMS Collaboration, submitted for publication, e-Print: 2311.11370

- 1419) “Search for the lepton flavor violating  $\tau \rightarrow 3\mu$  decay in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, submitted for publication, e-Print: 2311.02371
- 1420) “Search for charged-lepton flavor violation in the production and decay of top quarks using trilepton final states in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, submitted for publication, e-Print: 2312.03199
- 1421) “Measurement of simplified template cross sections of the Higgs boson produced in association with  $w$  or  $Z$  bosons in the  $H \rightarrow b\bar{b}$  decay channel in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, submitted for publication, e-Print: 2312.07562
- 1422) “Search for flavor changing neutral current interactions of the top quark in final states with a photon and additional jets in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, submitted for publication, e-Print: 2312.08229
- 1423) “Search for long-lived heavy neutral leptons with lepton flavour conserving or violating decays to a jet and a charged lepton”, CMS Collaboration, submitted for publication, e-Print: 2312.07484
- 1424) “Evidence for tWZ production in proton-proton collisions at  $\sqrt{s} = 13$  TeV in multi-lepton final states”, CMS Collaboration, submitted for publication, e-Print: 2312.11668
- 1425) “Measurement of the primary Lund jet plane density in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, submitted for publication, e-Print: 2312.16343
- 1426) “Measurement of multidifferential cross sections for dijet production in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, submitted for publication, e-Print: 2312.16669
- 1427) “Elliptic anisotropy measurement of the  $f_0(980)$  hadron in proton-lead collisions and evidence for its quark-antiquark composition”, CMS Collaboration, submitted for publication, e-Print: 2312.17092
- 1428) “Observation of enhanced long-range elliptic anisotropies inside high-multiplicity jets in pp collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, submitted for publication, e-Print: 2312.17103
- 1429) “Extracting the speed of sound in the strongly interacting matter created in ultrarelativistic lead-lead collisions at the LHC”, CMS Collaboration, submitted for publication, e-Print: 2401.06896
- 1430) “Test of lepton flavor universality in  $B \rightarrow K^\pm \mu^+ \mu^-$  and  $B \rightarrow K^\pm e^+ e^-$  decays in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, CMS Collaboration, submitted for publication, e-Print: 2401.07090
- 1431) “Measurement of the double-differential inclusive jet cross section in proton-proton collisions at  $\sqrt{s} = 5.02$  TeV”, CMS Collaboration, submitted for publication, e-Print: 2401.11355
- 1432) “Nonresonant central exclusive production of charged-hadron pairs in proton-proton collisions at  $\sqrt{s} = 13$  TeV”, TOTEM Collaboration, submitted for publication, e-Print: 2401.14494
- 1433) “Observation of the  $\Lambda_b^0 \rightarrow J/\psi \Xi^- K^+$  decay”, CMS Collaboration, submitted for publication, e-Print: 2401.16303

### Published INVITED Talks

- 1) "Review of Recent High Energy Photoproduction Results", American Institute of Physics, McGill University, Montreal Conference Proceedings (1980)
- 2) "Charm Photoproduction by Photons and Hadrons", Proceedings of the XIII International Symposium on Multiparticle Dynamics, W. Kittel, ed. (1983)
- 3) "The Use of Cherenkov Counters in a Hadronic Charm Particle Production Experiment", Proceedings of the Cherenkov Detectors Conference in Moscow, U.S.S.R. (July 11-18, 1984)
- 4) "Neutron Production of Charm Particles in Fermilab E-400", J. P. Cumalat, M. Binkley, F. Bossi, J. Butler, P. Coteus, M. DiCorato, M. Diesburg, J. Enagonio, J. Filaseta, P. L. Frabetti, I. Gaines, P. Garbincius, M. Gormley, J. Haggerty, D. Harding, T. Kroc, R. Ladbury, P. Lebrun, P. F. Manfredi, J. Peoples, A. Sala, C. Shipbaugh, J. Slaughter, and J. Wiss, Proceedings of the 1987 SLAC Summer Institute, Aug. 21, 1987 at SLAC, Stanford, California.
- 5) "Fixed Target Heavy Flavor Decays", J.P. Cumalat, COLOHEP 224, presented as part of the  $X^{th}$  International Conference on Physics in Collision, T. Kroc, R. Ladbury, P. Lebrun, P. F. Manfredi, J. Peoples, A. Sala, C. Shipbaugh, J. Slaughter, and J. Wiss, Proceedings of the 1987 SLAC Summer Institute, Aug. 21, 1987 at SLAC, Stanford, California.
- 5) "Fixed Target Heavy Flavor Decays", J.P. Cumalat, COLOHEP 224, presented as part of the  $X^{th}$  International Conference on Physics in Collision, T. Kroc, R. Ladbury, P. Lebrun, P. F. Manfredi, J. Peoples, A. Sala, C. Shipbaugh, J. Slaughter, and J. Wiss, Proceedings of the 1987 SLAC Summer Institute, Aug. 21, 1987 at SLAC, Stanford, California.
- 5) "Fixed Target Heavy Flavor Decays", J.P. Cumalat, COLOHEP 224, presented as part of the  $X^{th}$  International Conference on Physics in Collision, Duke University, Duke, North Carolina, June 21-23, 1990. Editions Frontieres World Scientific p104-121
- 6) "Recent Results in Charm Physics", J.P. Cumalat, COLOHEP 302, presented as part of the  $7^{th}$  Meeting of the American Physical Society Division of Particles and Fields (DPF92), Fermi National Accelerator Laboratory, Batavia, Illinois, November 10-14, 1992
- 7) "Future of Charm Photoproduction at Fermilab in the Next 3 Years and Beyond", published in "The Future of High-Sensitivity Charm Experiment", Proceedings of the CHARM2000 Workshop, June 7-9, 1994, p. 103-111

## **INVITED PAPERS in Proceedings, quit recording after 1992**

- 1) "Relative  $\gamma$ ,  $\pi^0$ , and  $\pi^+$  Yields from High Energy Bremsstrahlung", D.O. Caldwell, J.P. Cumalat, A.M. Eisner, B.N. Kendall, T.P. McPharlin, R.J. Morrison, and F.V. Murphy, Proceedings of the VI International Symposium on Electron and Photon Interactions at High Energies, North Holland Publishing Co. (1974) p.26
- 2) "Comparison of  $e^+ - e^-$  Deep Inelastic Scattering and Wide-Angle Bremsstrahlung", D.O. Caldwell, J.P. Cumalat, A.M. Eisner, B.N. Kendall, T.P. McPharlin, R.J. Morrison, and F.V. Murphy, Proceedings of the XVII International Conference on High Energy Physics, London (July, 1974) p.IV-76
- 3) "Inelastic Compton Scattering and Inclusive Photoproduction of  $\gamma$ ,  $\pi^0$ , and  $\eta$ ", D.O. Caldwell, J.P. Cumalat, A.M. Eisner, B.N. Kendall, T.P. McPharlin, R.J. Morrison, and F.V. Murphy, Proceedings of the XVII International Conference on High Energy Physics, London (July, 1974)
- 4) "Searching of Quarks with Photons", D.O. Caldwell, J.P. Cumalat, A.M. Eisner, B.N. Kendall, T.P. McPharlin, R.J. Morrison, and F.V. Murphy, Proceedings of the International Conference on High Energy Physics, Palermo, Sicily (1975)
- 5) "Vector Dominance Total Cross Sections with Charm", J.P. Cumalat and B. Margolis, Proceedings of 1977 International Symposium on Lepton and Photon Interactions at High Energies (July, 1977)
- 6) "Review of Recent High Energy Photoproduction Results", American Institute of Physics, McGill University, Montreal Conference Proceedings (1980)
- 7) "Charm Photoproduction by Photons and Hadrons", Proceedings of the XIII International Symposium on Multiparticle Dynamics, W. Kittel, ed. (1983)
- 8) "The Use of Cherenkov Counters in a Hadronic Charm Particle Production Experiment", Proceedings of the Cherenkov Detectors Conference in Moscow, U.S.S.R. (July 11-18, 1984)
- 9) "A Compact Multiwire Proportional Chamber System with 250  $\mu\text{m}$  Wire Spacing", P. Coteus and J. Cumalat, IEEE Transactions on Nuclear Science, Feb (1985)
- 10) "Charm Hadroproduction Results From Fermilab E-400", P. Coteus, M. Binkley, F. Bossi, J. Butler, J. P. Cumalat, M. DiCorato, M. Diesburg, J. Enagonio, J. Filaseta, P. L. Frabetti, I. Gaines, P. Garbincius, M. Gormley, J. Haggerty, D. Harding, T. Kroc, R. Ladbury, P. Lebrun, P. F. Manfredi, J. Peoples, A. Sala, C. Shipbaugh, J. Slaughter, and J. Wiss, Proceedings of the Second Topical Seminar on Heavy Flavors, S. Miniato in Tuscany, Italy, May 25-29, 1987. Proceedings section of Nuclear Physics B.
- 11) "Neutron Production of Charm Particles in Fermilab E-400", J. P. Cumalat, M. Binkley, F. Bossi, J. Butler, P. Coteus, M. DiCorato, M. Diesburg, J. Enagonio, J. Filaseta, P. L. Frabetti, I. Gaines, P. Garbincius, M. Gormley, J. Haggerty, D. Harding, T. Kroc, R. Ladbury, P. Lebrun, P. F. Manfredi, J. Peoples, A. Sala, C. Shipbaugh, J. Slaughter, and J. Wiss, Proceedings of the 1987 SLAC Summer Institute, Aug. 21, 1987 at SLAC, Stanford, California.

- 12) "Hadronic Production of Charm: Recent Results from Experiment E400 at FNAL", M. Diesburg, M. Binkley, F. Bossi, J. Butler, P. Coteus, J. P. Cumalat, M. DiCorato, J. Enagonio, J. Filaseta, P. L. Frabetti, I. Gaines, P. Garbincius, M. Gormley, J. Haggerty, D. Harding, T. Kroc, R. Ladbury, P. Lebrun, P. F. Manfredi, J. Peoples, A. Sala, C. Shipbaugh, J. Slaughter, and J. Wiss, Proceedings of the International Symposium on the Production and Decay of Heavy Flavors, Stanford University Sept. 1-5 1987. Annals of the New York Academy of Sciences, edited by A. Fridman.
- 13) "Fixed Target Heavy Flavors- a report from the Heavy Quark Working Group", J.A. Appel, E. Berger, I. Bigi, J. Busenitz, J.N. Butler, D. Christian, B. Cox, P. Cooper, J.P. Cumalat, J. Dunlea, D. Errede, C. Escobar, P. Garbincius, S. Gourlay, P. Gouffon, G. Guittierez, C. James, V. Kapoor, D.M. Kaplan, P. Kasper, B. Knapp, A. Kreymer, J. Kuzminski, D. Judd, J. Lach, T. Murphy, C. Newsom, D. Pedrini, D. Potter, M. Purohit, G. Rameika, J. Russ, W. Selove, L. Spiegel, D. Summers, P. Shepard, E. Thorndike, R. Van Berg, D. Wagonner, L. Wiencke, P. Yager; p418-472, "Physics at Fermilab in the 1990's", published by World Scientific, January 1990 (Chairman of the Charm and Beauty Photoproduction Study Group)
- 14) "New Physics Opportunities Working Group", V. Bharadwaj, D. Carlsmith, V.A. Chaloupka, S. Cihangir, J. Cumalat, D. Dimitroyannis, S. Errede, G. Fanourakis, T. Ferbel, N. Giokaris, J. Green, H.R. Gustavson, U. Joshi, L. Kourbanis, L.M. Lederman, K.B. Luk, A. Malensek, F.A. Nezrick, J. Rutherford, M. Shupe, A. Sinanidis, D. Underwood, N. Varelas, V. Visnjic, J. Volk, W.D. Walker, and M. Zielinski, p502-525, "Physics at Fermilab in the 1990's", published by World Scientific, January 1990
- 15) "Fixed Target Heavy Flavor Decays", J.P. Cumalat, COLOHEP 224, presented as part of the  $X^{th}$  International Conference on Physics in Collision, Duke University, Duke, North Carolina, June 21-23, 1990. (to be published in the proceedings)
- 16) "Photoproduction of D Mesons", P.L. Frabetti, C.W. Bogart, H.W.K. Cheung, P. Coteus, S. Culy, J.P. Cumalat, D. Kaplan, J.N. Butler, F. Davenport, I. Gaines, P.H. Garbincius, S. Gourlay, D.J. Harding, P. Kasper, A. Kreymer, P. Lebrun, H. Mendez, S. Bianco, M. Enorini, F. L. Fabbri, A. Spallone, A. Zallo, R. Culbertson, M. Diesburg, G. Jaross, K. Lingel, P.D. Sheldon, J.R. Wilson, J. Wiss, G. Alimonti, G. Bellini, M. Di Corato, M. Giammarchi, P. Inzani, S. Malvezzi, P.F. Manfredi, D. Menasce, L. Moroni, D. Pedrini, L. Perasso, A. Sala, S. Sala, D. Torretta, M. Vittone, J.M. Bishop, J.K. Busenitz, N.M. Cason, J.D. Cunningham, R.W. Gardner, C.J. Kennedy, E.J. Mannel, R.J. Mountain, D.L. Puseljic, R.C. Ruchti, W.D. Shephard, M.E. Zanabria, S.P. Ratti, and A. Lopez, contributed to XXVth International Conference on High Energy Physics, Singapore, Aug. 2-8 (1990)
- 17) "Measurement of the  $J/\Psi$  Elastic Photoproduction from 100 GeV to 400 GeV in the Experiment E687 at Fermilab", P.L. Frabetti, C.W. Bogart, H.W.K. Cheung, P. Coteus, S. Culy, J.P. Cumalat, D. Kaplan, J.N. Butler, F. Davenport, I. Gaines, P.H. Garbincius, S. Gourlay, D.J. Harding, P. Kasper, A. Kreymer, P. Lebrun, H. Mendez, S. Bianco, M. Enorini, F. L. Fabbri, A. Spallone, A. Zallo, R. Culbertson, M. Diesburg, G. Jaross, K. Lingel, P.D. Sheldon, J.R. Wilson, J. Wiss, G. Alimonti, G. Bellini, M. Di Corato, M. Giammarchi, P. Inzani, S. Malvezzi, P.F. Manfredi, D. Menasce, L. Moroni, D. Pedrini, L. Perasso, A. Sala, S. Sala, D. Torretta, M. Vittone, J.M. Bishop, J.K. Busenitz, N.M. Cason, J.D. Cunningham, R.W. Gardner, C.J. Kennedy, E.J. Mannel, R.J. Mountain, D.L. Puseljic, R.C. Ruchti, W.D. Shephard, M.E. Zanabria, S.P. Ratti, and A. Lopez,

contributed to XXVth International Conference on High Energy Physics, Singapore, Aug. 2-8 (1990)

- 18) "Some Lifetimes and Branching Ratios for Charmed Hadrons Produced in the Fermilab Wide-band Photon Beam", P.L. Frabetti, C.W. Bogart, H.W.K. Cheung, P. Coteus, S. Culy, J.P. Cumalat, D. Kaplan, J.N. Butler, F.Davenport, I.Gaines, P.H. Garbincius, S. Gourlay, D.J. Harding, P. Kasper, A. Kreymer, P. Lebrun, H. Mendez, S. Bianco, M. Enorini, F. L. Fabbri, A. Spallone, A. Zallo, R. Culbertson, M. Diesburg, G. Jaross, K. Lingel, P.D. Sheldon, J.R. Wilson, J. Wiss, G. Alimonti, G. Bellini, M. Di Corato, M. Giannmarchi, P. Inzani, S. Malvezzi, P.F. Manfredi, D. Menasce, L. Moroni, D. Pedrini, L. Perasso, A. Sala, S. Sala, D. Torretta, M. Vittone, J.M. Bishop, J.K. Busenitz, N.M. Cason, J.D. Cunningham, R.W. Gardner, C.J. Kennedy, E.J. Mannel, R.J. Mountain, D.L. Puseljic, R.C. Ruchti, W.D. Shephard, M.E. Zanabria, S.P. Ratti, and A. Lopez, contributed to XXVth International Conference on High Energy Physics, Singapore, Aug. 2-8 (1990)
- 19) " $D^+$ ,  $D^0$  Signals and Lifetimes in E687 Photoproduction Experiment at Fermilab", P.L. Frabetti, C.W. Bogart, H.W.K. Cheung, P. Coteus, S. Culy, J.P. Cumalat, D. Kaplan, J.N. Butler, F.Davenport, I.Gaines, P.H. Garbincius, S. Gourlay, D.J. Harding, P. Kasper, A. Kreymer, P. Lebrun, H. Mendez, S. Bianco, M. Enorini, F. L. Fabbri, A. Spallone, A. Zallo, R. Culbertson, M. Diesburg, G. Jaross, K. Lingel, P.D. Sheldon, J.R. Wilson, J. Wiss, G. Alimonti, G. Bellini, M. Di Corato, M. Giannmarchi, P. Inzani, S. Malvezzi, P.F. Manfredi, D. Menasce, L. Moroni, D. Pedrini, L. Perasso, A. Sala, S. Sala, D. Torretta, M. Vittone, J.M. Bishop, J.K. Busenitz, N.M. Cason, J.D. Cunningham, R.W. Gardner, C.J. Kennedy, E.J. Mannel, R.J. Mountain, D.L. Puseljic, R.C. Ruchti, W.D. Shephard, M.E. Zanabria, S.P. Ratti, and A. Lopez, contributed to XXVth International Conference on High Energy Physics, Singapore, Aug. 2-8 (1990)
- 20) "Fermilab Experiment E687: Recent Results on Charm", P.L. Frabetti, C.W. Bogart, H.W.K. Cheung, P. Coteus, S. Culy, J.P. Cumalat, D. Kaplan, J.N. Butler, F.Davenport, I.Gaines, P.H. Garbincius, S. Gourlay, D.J. Harding, P. Kasper, A. Kreymer, P. Lebrun, H. Mendez, S. Bianco, M. Enorini, F. L. Fabbri, A. Spallone, A. Zallo, R. Culbertson, M. Diesburg, G. Jaross, K. Lingel, P.D. Sheldon, J.R. Wilson, J. Wiss, G. Alimonti, G. Bellini, M. Di Corato, M. Giannmarchi, P. Inzani, S. Malvezzi, P.F. Manfredi, D. Menasce, L. Moroni, D. Pedrini, L. Perasso, A. Sala, S. Sala, D. Torretta, M. Vittone, J.M. Bishop, J.K. Busenitz, N.M. Cason, J.D. Cunningham, R.W. Gardner, C.J. Kennedy, E.J. Mannel, R.J. Mountain, D.L. Puseljic, R.C. Ruchti, W.D. Shephard, M.E. Zanabria, S.P. Ratti, and A. Lopez, Proceedings of the XX International Symposium on Multiparticle Dynamics 1990, R. Baier and D. Wegner, eds., World Scientific, pp. 187-193 (1991). Also Fermilab-conf-90/260-E)
- 21) "Semileptonic Decays of Charmed Particles", John P. Cumalat, published in the proceedings of Research Directions for the Decade, Proceedings of the 1990 Summer Study on High Energy Physics, World Scientific , 1992. (253-254)
- 22) "Report of the Super Fixed Target Beauty Facility Working Group on Progress Towards the SFT at the SSC", H. Brown, J. Cumalat, R.A. Carrigan, C. T. Murphy, S. Peggs, A. Garren, J. Ellison, J. Trischuk, D. Kaplan, B. Newberger, H. J. Shih, T. Toohig, S. Conetti, B. Cox, B. Norum, published in the proceedings of Research Directions for the Decade, Proceedings of the 1990 Summer Study on High Energy Physics, World Scientific , 1992. (373-393)

- 23) "Heavy Flavors Study Group", J.A. Appel, P. Burchat, J. N. Butler, J. P. Cumalat, I. Gaines, P. H. Garbincius, S. Gourlay, D. M. Kaplan, A. Kreymer, L. Lueking, P. Sheldon, W. J. Spalding, J. E. Wiss, P. Yager, published in the proceedings of Research Directions for the Decade, Proceedings of the 1990 Summer Study on High Energy Physics, World Scientific , 1992. (617-625)
- 24) "High Energy Photoproduction of Charm Baryons", G. Alimonti, V. Arena, G. Bellini, S. Bianco, J.M. Bishop, G.R. Blackett, G. Boca, C.W. Bogart, D. Buchholz, J.K. Busenitz, J.N. Butler, B. Caccianiga, N.M. Cason, C. Castoldi, B.G. Cheon, H.W.K. Cheung, S. Cihangir, L. Cinquini, D. Claes, R. Culbertson, S. Culy, J.P. Cumalat, J.D. Cunningham, C. Dallapiccola, K. Danyo, F. Davenport, R. Diaferia, M. Di Corato, M. Enorini, F.L. Fabbri, J.F. Filasetta, P.L. Frabetti, I. Gaines, P.H. Garbincius, R.W. Gardner, L. Garren, M. Giammarchi, G. Gianini, J.F. Ginkel, B. Gobbi, S. Gourlay, R. Greene, S.V. Greene, G.P. Grim, T. Handler, D.J. Harding, P. Inzani, G. Jaross, W.E. Johns, J.S. Kang, P. Kasper, C.J. Kennedy, G.N. Kim, K.Y. Kim, A. Kreymer, P. Lebrun, F. Leveraro, T.F. Lin, K. Lingel, A. Lopez, S. Malvezzi, E.J. Mannel, H. Mendez, D. Menasce, E. Meroni, L. Moroni, R.J. Mountain, M.S. Nehring, B. O'Reilly, V.S. Paolone, S. Park, D. Pedrini, L. Perasso, M. Pisharody, D.L. Puseljic, S.P. Ratti, C. Riccardi, R.C. Ruchti, A. Sala, S. Sala, S. Sarwar, P.D. Sheldon, W.D. Shephard, S. Shukla, A. Spallone, J.A. Swiatek, D. Torretta, M. Vittone, P. Vitulo, J.R. Wilson, J. Wiss, Z.Y. Wu, P.M. Yager, R. Yoshida, A. Zallo, M.E. Zanabria presented by Harry W.K. Cheung for the E687 Collaboration, XXVI International Conference on High Energy Physics, Dallas TX(USA), August 6-12, 1992
- 25) "Rare Decay Modes of the  $D^0, D^+, D_s$  Charmed Mesons", G. Alimonti, V. Arena, G. Bellini, S. Bianco, J.M. Bishop, G.R. Blackett, G. Boca, C.W. Bogart, D. Buchholz, J.K. Busenitz, J.N. Butler, B. Caccianiga, N.M. Cason, C. Castoldi, B.G. Cheon, H.W.K. Cheung, S. Cihangir, L. Cinquini, D. Claes, R. Culbertson, S. Culy, J.P. Cumalat, J.D. Cunningham, C. Dallapiccola, K. Danyo, F. Davenport, R. Diaferia, M. Di Corato, M. Enorini, F.L. Fabbri, J.F. Filasetta, P.L. Frabetti, I. Gaines, P.H. Garbincius, R.W. Gardner, G. Boca, C.W. Bogart, D. Buchholz, J.K. Busenitz, J.N. Butler, B. Caccianiga, N.M. Cason, C. Castoldi, B.G. Cheon, H.W.K. Cheung, S. Cihangir, L. Cinquini, D. Claes, R. Culbertson, S. Culy, J.P. Cumalat, J.D. Cunningham, C. Dallapiccola, K. Danyo, F. Davenport, R. Diaferia, M. Di Corato, M. Enorini, F.L. Fabbri, J.F. Filasetta, P.L. Frabetti, I. Gaines, P.H. Garbincius, R.W. Gardner, L. Garren, M. Giammarchi, G. Gianini, J.F. Ginkel, B. Gobbi, S. Gourlay, R. Greene, S.V. Greene, G.P. Grim, T. Handler, D.J. Harding, P. Inzani, G. Jaross, W.E. Johns, J.S. Kang, P. Kasper, C.J. Kennedy, G.N. Kim, K.Y. Kim, A. Kreymer, P. Lebrun, F. Leveraro, T.F. Lin, K. Lingel, A. Lopez, S. Malvezzi, E.J. Mannel, H. Mendez, D. Menasce, E. Meroni, L. Moroni, R.J. Mountain, M.S. Nehring, B. O'Reilly, V.S. Paolone, S. Park, D. Pedrini, L. Perasso, M. Pisharody, D.L. Puseljic, S.P. Ratti, C. Riccardi, R.C. Ruchti, A. Sala, S. Sala, S. Sarwar, P.D. Sheldon, W.D. Shephard, S. Shukla, A. Spallone, J.A. Swiatek, D. Torretta, M. Vittone, P. Vitulo, J.R. Wilson, J. Wiss, Z.Y. Wu, P.M. Yager, R. Yoshida, A. Zallo, M.E. Zanabria presented by G. Bellini, XXVI International Conference on High Energy Physics, Dallas TX(USA), August 6-12, 1992
- 27) "Studies of Fully Reconstructed  $D\bar{D}$  Events in High Energy Photoproduction", G. Alimonti, V. Arena, G. Bellini, S. Bianco, J.M. Bishop, G.R. Blackett, G. Boca, C.W. Bogart, D. Buchholz, J.K. Busenitz, J.N. Butler, B. Caccianiga, N.M. Cason, C. Castoldi, B.G. Cheon, H.W.K. Cheung, S. Cihangir, L. Cinquini, D. Claes, R. Culbertson, S. Culy, J.P. Cumalat, J.D. Cunningham, C. Dallapiccola, K. Danyo, F. Davenport, R. Diaferia, M. Di Corato

Corato, M. Enorini, F.L. Fabbri, J.F. Filasetta, P.L. Frabetti, I. Gaines, P.H. Garbincius, R.W. Gardner, L. Garren, M. Giammarchi, G. Gianini, J.F. Ginkel, B. Gobbi, S. Gourlay, R. Greene, S.V. Greene, G.P. Grim, T. Handler, D.J. Harding, P. Inzani, G. Jaross, W.E. Johns, J.S. Kang, P. Kasper, C.J. Kennedy, G.N. Kim, K.Y. Kim, A. Kreymer, P. Lebrun, F. Leveraro, T.F. Lin, K. Lingel, A. Lopez, S. Malvezzi, E.J. Mannel, H. Mendez, D. Menasce, E. Meroni, L. Moroni, R.J. Mountain, M.S. Nehring, B. O'Reilly, V.S. Paolone, S. Park, D. Pedrini, L. Perasso, M. Pisharody, D.L. Puseljic, P.D. Sheldon, W.D. Shephard, S. Shukla, A. Spallone, J.A. Swiatek, D. Torretta, M. Vittone, P. Vitulo, J.R. Wilson, J. Wiss, Z.Y. Wu, P.M. Yager, R. Yoshida, A. Zallo, M.E. Zanabria presented by R.W. Gardner for the E687 Collaboration, XXVI International Conference on High Energy Physics, Dallas TX(USA), August 6-12, 1992

#### **Other Publications**

- 1) "Design for a New Wide-band Neutral Beam for the Tevatron", J. Butler, J.P. Cumalat, P. Garbincius, and K. Stanfield, Fermilab, TM 963 (May 2, 1980)
- 2) " $\rho$  Photoproduction from 35 to 225 GeV", Fermilab preprint (1984)