

## Publications<sup>1</sup>

- [1] **The Search for Heavy Leptons and Muon - Electron Differences.**  
By M.L. Perl, and P.A. Rapidis (SLAC), SLAC-PUB-1496, Sept. 1974.  
Revised version of review paper originally presented at the Muon Physics Conference, Colorado State Univ., Sep 6-10, 1971. Reprinted in ‘*Reflections on Experimental Science*’, *World Scientific Series in 20th Century Physics, Volume 14* by M.L. Perl, World Scientific, Singapore, 1996.
- [2] **Discovery of a Narrow Resonance in  $e^+e^-$  Annihilation.**  
J.-E. Augustin *et al.*, *Phys. Rev. Lett.* **33**,1406 (1974).
- [3] **Discovery of a Second Narrow Resonance in  $e^+e^-$  Annihilation.**  
G.S. Abrams *et al.*, *Phys. Rev. Lett.* **33**,1453 (1974).
- [4] **Search for Narrow Resonances in  $e^+e^-$  Annihilation in the Mass Region 3.2 to 5.9 GeV.**  
G.S. Abrams *et al.*, *Phys. Rev. Lett.* **34**,762 (1975).
- [5] **Decay of  $\psi(3684)$  into  $\psi(3095)$ .**  
G.S. Abrams *et al.*, *Phys. Rev. Lett.* **34**,1181 (1975).
- [6] **Quantum Numbers and Decay Widths of the  $\psi(3095)$ .**  
A.M. Boyarski *et al.*, *Phys. Rev. Lett.* **34**,1357 (1975).
- [7] **Limits on Charmed-Meson Production in  $e^+e^-$  Annihilation at 4.8-GeV Center-of-Mass Energy.**  
A.M. Boyarski *et al.*, *Phys. Rev. Lett.* **35**,195 (1975).
- [8] **Quantum Numbers and Decay Widths of the  $\psi(3684)$ .**  
V. Lüth *et al.*, *Phys. Rev. Lett.* **35**,1124 (1975).
- [9]  **$\psi(3684)$  Radiative Decays to High-Mass States.**  
G.J. Feldman *et al.*, *Phys. Rev. Lett.* **35**,821 (1975), Erratum-*ibid.* **35**,1184 (1975).

---

<sup>1</sup>Includes mostly publications in refereed journals, but also presentations and unpublished notes in which I was a major contributor.

- [10] **Evidence for Anomalous Lepton Production in  $e^+e^-$  Annihilation.**  
M.L. Perl *et al.*, *Phys. Rev. Lett.* **35**,1489 (1975).
- [11] **Azimuthal Asymmetry in Inclusive Hadron Production by  $e^+e^-$  Annihilation.**  
R. Schwitters *et al.*, *Phys. Rev. Lett.* **35**,1320 (1975).
- [12] **Observation of an Intermediate State in  $\psi(3684)$  Radiative Cascade Decay.**  
W.M. Tanenbaum *et al.*, *Phys. Rev. Lett.* **35**,1323 (1975).
- [13] **Evidence for Jet Structure in Hadron Production by  $e^+e^-$  Annihilation.**  
G. Hanson *et al.*, *Phys. Rev. Lett.* **35**,1609 (1975).
- [14] **Determination of the G Parity and Isospin of  $\psi(3095)$  by Study of Multipion Decays.**  
B. Jean-Marie *et al.*, *Phys. Rev. Lett.* **36**,291 (1976).
- [15] **Observation of the Decay  $\psi(3684) \rightarrow \psi(3095) \eta$ .**  
W.M. Tanenbaum *et al.*, *Phys. Rev. Lett.* **36**,402 (1976).
- [16] **Observation of a Resonance at 4.4 GeV and Additional Structure Near 4.1 GeV in  $e^+e^-$  Annihilation.**  
J. Siegrist *et al.*, *Phys. Rev. Lett.* **36**,700 (1976).
- [17] **Observation in  $e^+e^-$  Annihilation of a Narrow State at 1865  $MeV/c^2$  Decaying to  $K\pi$  and  $K\pi\pi\pi$ .**  
G. Goldhaber *et al.*, *Phys. Rev. Lett.* **37**,255 (1976).
- [18] **Observation of a Narrow Charged State at 1876  $MeV/c^2$  Decaying to an Exotic Combination of  $K\pi\pi$ .**  
I. Peruzzi *et al.*, *Phys. Rev. Lett.* **37**,569 (1976).
- [19] **Properties of Anomalous  $e\mu$  Events Produced in  $e^+e^-$  Annihilation.**  
M.L. Perl *et al.*, *Phys. Lett.* **63B**,466 (1976).
- [20] **Radiative Decays of  $\psi(3095)$  and  $\psi(3684)$ .**  
J.S. Whitaker *et al.*, *Phys. Rev. Lett.* **37**,1596 (1976).

- [21] **Inclusive Anomalous Muon Production in  $e^+e^-$  Annihilation.**  
G.J. Feldman *et al.*, *Phys. Rev. Lett.* **38**,117 (1977), Erratum-*ibid.* **38**,576 (1977).
- [22] **Evidence for Parity Nonconservation in the Decays of the Narrow States near  $1.87 \text{ GeV}/c^2$ .**  
J. Wiss *et al.*, *Phys. Rev. Lett.* **37**,1531 (1976).
- [23] **Mesonic Decays of the  $\psi(3095)$ .**  
F. Vannucci *et al.*, *Phys. Rev.* **D15**,1814 (1977).
- [24] **Observation of the Decay  $D^{*+} \rightarrow D^0\pi^+$ .**  
G.J. Feldman *et al.*, *Phys. Rev. Lett.* **38**,1313 (1977).
- [25] **Spin Analysis of Charmed Mesons Produced in  $e^+e^-$  Annihilation.**  
H.K. Nguyen *et al.*, *Phys. Rev. Lett.* **39**,262 (1977).
- [26]  **$K^0$  Production in  $e^+e^-$  Annihilation.**  
V. Lüth *et al.*, *Phys. Lett.* **70B**,120 (1977).
- [27] **Observation of a Resonance in  $e^+e^-$  Annihilation Just above Charm Threshold.**  
P.A. Rapidis *et al.*, *Phys. Rev. Lett.* **39**,526 (1977), Erratum-*ibid.* **39**,974 (1977).
- [28] **D and  $D^*$  Meson Production near 4 GeV in  $e^+e^-$  Annihilation.**  
G. Goldhaber *et al.*, *Phys. Lett.* **69B**,503 (1977).
- [29] **Electron - Muon and Electron - Hadron Production in  $e^+e^-$  Collisions.**  
A. Barbaro-Galtieri *et al.*, *Phys. Rev. Lett.* **39**,1058 (1977).
- [30] **D Meson Production and Decay in  $e^+e^-$  Annihilation at 4.03 and 4.41 GeV C.M. Energy.**  
M. Piccolo *et al.*, *Phys. Lett.* **70B**,260 (1977).
- [31] **The Lead-Glass Wall Addition to the SPEAR MARK I Magnetic Detector**  
By J. M. Feller *et al.* presented at the 1977 IEEE Nuclear Science Symposium, Oct. 19-21, 1977, San Francisco, California, *IEEE Trans. Nucl. Sci.* **25**, 304-308,1978.

- [32] **Radiative Decays of the  $\psi(3684)$  into High-Mass States.**  
W.M. Tanenbaum *et al.*, *Phys. Rev.* **D17**,1731 (1978).
- [33] **A Search for Neutral Heavy Leptons.**  
D.I. Meyer *et al.*, *Phys. Lett.* **70B**,469 (1977).
- [34] **Properties of the Proposed  $\tau$  Charged Lepton.**  
M.L. Perl *et al.*, *Phys. Lett.* **70B**,487 (1977).
- [35] **Study of D Mesons Produced in the Decay of the  $\psi(3772)$ .**  
I. Peruzzi *et al.*, *Phys. Rev. Lett.* **39**,1301 (1977).
- [36] **Observation of  $D^0$  Meson Decay into  $K^-\pi^+\pi^0$ .**  
D.L. Scharre *et al.*, *Phys. Rev. Lett.* **40**,74 (1978).
- [37] **Inclusive Baryon Production in  $e^+e^-$  Annihilation.**  
M. Piccolo *et al.*, *Phys. Rev. Lett.* **39**,1503 (1977).
- [38] **Measurement of Semileptonic Decays of D Mesons to Electrons at the  $\psi(3772)$ .**  
J.M. Feller *et al.*, *Phys. Rev. Lett.* **40**,274 (1978).
- [39] **Anomalous  $e^+e^-$  and  $\mu^+\mu^-$  Events Produced in  $e^+e^-$  Annihilation.**  
F.B. Heile *et al.*, *Nucl. Phys.* **B138**,189 (1978).
- [40] **Baryonic Decays of the  $\psi(3095)$ .**  
I. Peruzzi *et al.*, *Phys. Rev.* **D17**,2901 (1978).
- [41] **Observation of  $\mu 3\pi$  Events in  $e^+e^-$  Annihilation.**  
J. Jaros *et al.*, *Phys. Rev. Lett.* **40**,1120 (1978).
- [42] **Inclusive Electron Production in Multiprong Events Produced by  $e^+e^-$  Annihilation.**  
J.M. Feller *et al.*, *Phys. Rev. Lett.* **40**,1677 (1978), Erratum-*ibid.* **41**,518 (1978).
- [43] **Inclusive  $\gamma$  and  $\pi^0$  Production in  $e^+e^-$  Annihilation.**  
D.L. Scharre *et al.*, *Phys. Rev. Lett.* **41**,1005 (1978).

- [44] **Inclusive Production of D-Mesons in  $e^+e^-$  Annihilation at 7 GeV.**  
P.A. Rapidis *et al.*, *Phys. Lett.* **84B**,507 (1979).
- [45] **Inclusive Studies of D-Meson Decays at the  $\psi(3772)$ .**  
V. Vuillemin,*et al.*, *Phys. Rev. Lett.* **41**,1149 (1978).
- [46] **Inclusive Production of D and K Mesons in  $e^+e^-$  Annihilation.**  
M. Piccolo *et al.*, *Phys. Lett.* **86B**,220 (1979).
- [47] **D Meson Production in  $e^+e^-$  Annihilation.**  
By P.A. Rapidis (SLAC), SLAC Report No. 0220, June 1979. 103pp.  
Ph.D. Thesis.
- [48] **Hadron Production by  $e^+e^-$  Annihilation at Center-of-Mass Energies between 2.6-GeV and 7.8-GeV. I. Total Cross Section, Multiplicities, and Inclusive Momentum Distributions.**  
J. Siegrist *et al.*, *Phys. Rev.* **D26**,969 (1982).
- [49] **Hadron Production by  $e^+e^-$  Annihilation at Center-of-Mass Energies between 2.6-GeV and 7.8-GeV. II. Jet Structure and Related Inclusive Distributions.**  
G. Hanson *et al.*, *Phys. Rev.* **D26**,991 (1982).
- [50] **A Study of the Forward Production of Charm Particle Pairs in p-Fe and  $\pi^-$ -Fe interactions.**  
A. Bodek *et al.*, *Phys. Lett.* **113B**,77 (1982).
- [51] **Limits on  $D^0 - \bar{D}^0$  Mixing and Bottom Particle Production Cross Section from Hadronically Produced Same-Sign Dimuon Events.**  
A. Bodek *et al.*, *Phys. Lett.* **113B**,82 (1982).
- [52] **Forward Production of Charm States and Prompt Single Muons in 350 GeV p-Fe Interactions.**  
J.L. Ritchie *et al.*, *Phys. Lett.* **126B**,499 (1983).
- [53] **Forward Production of Charm States and Prompt Single Muons in 278 GeV  $\pi^-$ -Fe Interactions.**  
J.L. Ritchie *et al.*, *Phys. Lett.* **138B**,213 (1984).

- [54] **Recent Results on Total Neutrino and Antineutrino Cross Sections the CFRR Collaboration.**  
 By B.C. Barish *et al.*, Presented by P.A. Rapidis at the 9th SLAC Summer Inst. on Particle Physics, Stanford, Calif., July 27 - August 7, 1981. Published in *Proceedings of Summer Institute on Particle Physics, July 27 - August 7, 1981, The Strong Interactions*, SLAC Report No. 245, Ed. by A. Mosher, (January 1982), p. 641.
- [55] **Observation of Light Below Cherenkov Threshold in a 1.5 Meter Long Integrating Cherenkov Counter.**  
 A. Bodek *et al.*, *Z. Phys. C - Particles and Fields* **18**,289 (1983).
- [56] **Measurement of the Rate of Increase of Neutrino Cross Sections with Energy.**  
 R. Blair *et al.*, *Phys. Rev. Lett.* **51**,343 (1983).
- [57] **Measurement of  $\sin^2\theta_w$  in Semileptonic  $\nu$  Fe and  $\bar{\nu}$  Fe Interactions.**  
 By R.E. Blair *et al.*, Presented by P.A. Rapidis at the Europhysics Study Conference on Electroweak Effects at High Energies, February 1-12, 1983, Erice, Italy. Published in the *Proceedings of the First Europhysics Study Conference on Electroweak Effects at High Energies*, Ed. by H. Newman, Plenum, NY, 1985, p. 87.
- [58] **Limit on Muon-Neutrino Oscillations in the Mass Range  $30 < \Delta m^2 < 1000 eV^2/c^4$ .**  
 By I.E. Stockdale *et al.*, *Phys. Rev. Lett.* **52**,1384 (1984).
- [59] **Nucleon Structure Functions from High-Energy Neutrino Interactions with Iron and QCD Results.**  
 D. MacFarlane *et al.*, *Z. Phys. C - Particles and Fields* **26**,1 (1984).
- [60] **Monitoring and Calibration System for Neutrino Flux Measurement in a High-Energy Dichromatic Beam.**  
 R. Blair *et al.*, *Nucl. Instrum. Methods.* **226**, 281 (1984).
- [61] **Design, Construction, and Calibration of Large Ion Chambers for Muon Flux Monitoring in Neutrino Beams at Fermilab.** P. S. Auchincloss *et al.*, Unpublished note, FERMILAB-FN-0382, March 1983. 26pp.

- [62] **Search for Muon Neutrino and Antineutrino Oscillations in the Mass Range  $15 < \Delta m^2 < 1,000 eV^2/c^4$ .**  
By I.E. Stockdale *et al.*, *Z. Phys. C - Particles and Fields* **27**,53 (1985).
- [63] **Measurement of  $\sin^2\theta_w$  and  $\rho$  in Deep Inelastic Neutrino-Nucleon Scattering.**  
P.G. Reutens *et al.*, *Phys. Lett.* **152B**, 404 (1985).
- [64] **Hadron Shower Punchthrough for Incident Hadrons of Momentum 15-GeV/c, 25-GeV/c, 50-GeV/c, 100-GeV/c, 200-GeV/c, and 300-GeV/c.**  
F.S. Merritt *et al.*, *Nucl. Instrum. Methods. A* **245**, 27 (1986).
- [65] **Neutrino Production of Dimuons.**  
K. Lang *et al.*, *Z. Phys. C - Particles and Fields* **33**,483 (1987).
- [66] **Search for Neutral Heavy Leptons from  $\nu$ -N Scattering.**  
S.R. Mishra *et al.*, *Phys. Rev. Lett.* **59**,1397 (1987).
- [67] **Nucleon Structure Functions from High-Energy Neutrino Interactions.**  
E. Oltman *et al.*, *Z. Phys. C - Particles and Fields* **53**,51 (1992).
- [68] **A Measurement of TeV Muon Energy Loss in Iron.**  
W.K. Sakumoto *et al.*, *Phys. Rev.* **D45**, 3042 (1992).
- [69] **A Measurement of the Neutral Current Electroweak Parameters using the Fermilab Narrow Band Neutrino Beam.**  
P.G. Reutens *et al.*, *Z. Phys. C - Particles and Fields* **45**,539 (1990).
- [70] **Measurement of the Inclusive Charged Current Cross-Section for Neutrino and Anti-Neutrino Scattering on Isoscalar Nucleons.**  
P.S. Auchincloss *et al.*, *Z. Phys. C - Particles and Fields* **48**,411 (1990).
- [71] **Calibration of the CCFR Target Calorimeter.**  
W.K. Sakumoto *et al.*, *Nucl. Instrum. Methods.* **A294**, 179 (1990).
- [72] **A Study of Wrong Sign Single Muon Production in Muon - Neutrino - Nucleon Interactions.**  
S.R. Mishra *et al.*, *Z. Phys. C - Particles and Fields* **44**,187 (1989).

- [73] **The Fermilab Antiproton Source : Prospects for  $p\bar{p}$  Experiments.**  
 By P.A. Rapidis, Presented at the First Workshop on Antimatter Physics at Low Energy, Batavia, Illinois, April 10-12, 1986. Published in *Proceedings of the First Workshop on Antimatter Physics at Low Energy*, Fermilab Publication, Ed. by B. E. Bonner and L. S. Pinsky , (1986), p. 83.
- [74] **The Fermilab Antiproton Source : Recent Performance and Improvements.**  
 By P.A. Rapidis *et al.*, Presented at the 1st European Particle Accelerator Conference, Rome, Italy, June 7-11, 1988. Published in *EPAC, European Particle Accelerator Conference*, Ed. by S. Tazzari, World Scientific, Singapore, 1989, p. 404.
- [75] **Experiments with Anti-Protons: Summary of the Working Group's Activities.**  
 By P.A. Rapidis, in *Proceedings of the Workshop on Physics at the Main Injector, May 16-18, 1989, Batavia, Illinois*, Ed. by S.D. Holmes and B.D. Winstein, Fermilab, 1989 p. 165.
- [76] **Operation of the Fermilab accumulator for medium-energy proton anti-proton physics.**  
 By V. Bharadwaj *et al.*, *Proceedings of 2nd European Particle Accelerator Conference (EPAC 90)*, Nice, France, 12-16 Jun 1990, Edited by P. Martin and P. Mandrillon. Gif-sur-Yvette, France, Editions Frontieres, 1991. p. 617.
- [77] **Low-energy and medium-energy anti-proton facilities in the US.**  
 By P.A. Rapidis. Presented at the First Biennial Conference on Low Energy Antiproton Physics, Stockholm 1990, published in *Proceedings of the First Biennial Conference on Low Energy Antiproton Physics*, Edited by P. Carlson, A. Kerek and S. Szilagyi, World Scientific Publishing Co., Singapore, 1991, p. 492.

- [78]  **$p\bar{p}$  Accumulator Physics.**  
 By P.A. Rapidis and G.A. Smith, editors for the  $\bar{p}$  Accumulator Physics Group, in *Proceedings of Physics at Fermilab in the 1990's, August 15-24, 1989, Breckenridge, Colorado*, Ed. by D. Green and H. Lubatti, World Scientific Publishers, Singapore, 1990, p. 474.
- [79] **Energy and Energy Width Measurement in the FNAL Antiproton Accumulator.**  
 By M. Church, S. Hsueh, P. Rapidis, and S. Werkema. Published in *Conference Record of the 1991 IEEE Particle Accelerator Conference, May 6-9, 1991, San Francisco, California*, p. 108.
- [80] **Precision Measurements of Charmonium States Formed in  $\bar{p}p$  Annihilation.**  
 T.A. Armstrong *et al.*, *Phys. Rev. Lett.* **68**, 1468 (1992).
- [81] **Study of the  $\chi_{c1}$  and  $\chi_{c2}$  Charmonium States Formed in  $\bar{p}p$  Annihilations.**  
 T.A. Armstrong *et al.*, *Nucl. Phys.* **B373**, 35 (1992).
- [82] **Proton Electromagnetic Form Factor in the Timelike Region from 8.9 to 13.0 GeV<sup>2</sup>.**  
 T.A. Armstrong *et al.*, *Phys. Rev. Lett.* **70**, 1212 (1993).
- [83] **Precision measurements of antiproton-proton forward elastic scattering parameters in the 3.7 to 6.2 GeV/c region.**  
 T.A. Armstrong *et al.*, *Physics Letters B* **385** 479 (1996).
- [84] **Observation of the  $^1P_1$  State of Charmonium.**  
 T.A. Armstrong *et al.*, *Phys. Rev. Lett.* **69**, 2337 (1992).
- [85] **Measurement of the  $J/\psi$  and  $\psi'$  resonance parameters in  $\bar{p}p$  annihilation.**  
 T.A. Armstrong *et al.*, *Phys. Rev.* **D47**, 772 (1993).
- [86] **Study of the Angular Distribution of the Reaction  $\bar{p}p \rightarrow \chi_{c2} \rightarrow J/\psi\gamma \rightarrow e^+e^-\gamma$ .**  
 T.A. Armstrong *et al.*, *Phys. Rev.* **D48**, 3037 (1993).

- [87] **Measurement of the  $\gamma\gamma$  Partial Width of the  $\chi_{c2}$  Charmonium Resonance.**  
T.A. Armstrong *et al.*, *Phys. Rev. Lett.* **70**, 2988 (1993).
- [88] **Evidence for  $\eta\eta$  Resonances in Antiproton - Proton Annihilations at  $2950 < \sqrt{s} < 3620$  MeV.**  
T.A. Armstrong *et al.*, *Phys. Lett.* **B307**, 394 (1993).
- [89] **Production of the  $f_2(1520)$  Resonance in Antiproton - Proton Annihilations at  $\sqrt{s} = 2950$  and  $3526$  MeV.**  
T.A. Armstrong *et al.*, *Phys. Lett.* **B307**, 399 (1993).
- [90] **The E760 Lead Glass Central Calorimeter: Design and Initial Test Results.**  
L. Bartoszek *et al.*, *Nucl. Instrum. Meth.* **A301**, 47 (1991).
- [91] **Precision Charmonium Spectroscopy at the Fermilab Antiproton Accumulator.**  
By P.A. Rapidis, Presented at the 1992 Summer Institute on Particle Physics, Stanford, California, July 13-24, 1992. Published in *Proceedings of the Summer Institute on Particle Physics, July 13-24, 1992, The Third Family and the Physics of Flavor*, edited by L. Vassilian, SLAC, 1993, p. 469.
- [92] **Study of the  $\eta_c(1^1S_0)$  State of Charmonium Formed in  $p\bar{p}$  Annihilations and a Search for the  $\eta'_c(2^1S_0)$ .**  
T.A. Armstrong *et al.*, *Phys. Rev.* **D52**, 4839 (1995).
- [93] **Charmonium Formation in  $p\bar{p}$  Annihilations.**  
R. Cester (U. of Turin), and P.A. Rapidis (Fermilab), *Ann. Rev. Nucl. Part. Sci.*, **44**, 329 (1994).
- [94] **Observation of the Radiative Decay  $J/\psi \rightarrow e^+e^-\gamma$ .**  
T.A. Armstrong *et al.*, *Phys. Rev.* **D54**, 7067 (1996).
- [95] **Measurement of the Branching Ratios  $\psi' \rightarrow e^+e^-$ ,  $\psi' \rightarrow J/\psi\pi\pi$ , and  $\psi' \rightarrow J/\psi\eta$ .**  
T.A. Armstrong *et al.*, *Phys. Rev.* **D55**, 1153 (1997).

- [96] **Two Body Neutral Final States Produced in antiproton-proton Annihilations at  $2.911 \text{ GeV} \leq \sqrt{s} \leq 3.686 \text{ GeV}$ .**  
T.A. Armstrong *et al.*, *Phys. Rev.* , **D56**, 2509 (1997).
- [97] **Search for Direct CP Violation in  $p\bar{p} \rightarrow \bar{\Lambda}\Lambda \rightarrow \bar{p}\pi^+p\pi^-$**   
S. Y. Hsueh, and P.A. Rapidis (Fermilab), *Fermilab Proposal P-859* ,  
January 1992, unpublished.
- [98] **SQUID Based Beam Current Meter.**  
M. Kuchnir, J.D. McCarthy, and P.A. Rapidis (Fermilab). *et al.*, *IEEE Transactions on Magnetics* **MAG-21**,997 (1985).
- [99] **Pulsed Laser for Testing Silicon Strip Detectors.**  
M. Vaz (Rio de Janeiro, CBPF & Rio de Janeiro U.), S. Cihangir, and  
P.A. Rapidis (Fermilab), FERMILAB-TM-1849, Jul 1993. 16pp.
- [100] **Search for Heavy  $W$  Bosons in 1.8 TeV  $p\bar{p}$  Collisions.**  
S. Abachi *et al.* (DØ Collaboration), *Phys. Lett.* **B358**, 405 (1995).
- [101] **Jet Production via Strongly-Interacting Color-Singlet Exchange in  $p\bar{p}$  Collisions.**  
S. Abachi *et al.* (DØ Collaboration), *Phys. Rev. Lett.* , **76** 734 (1996).
- [102] **Top Quark Search with the DØ 1992–1993 Data Sample.**  
S. Abachi *et al.* (DØ Collaboration), *Phys. Rev.* **D52**, 4877 (1995).
- [103] **Limits on the  $ZZ\gamma$  and  $Z\gamma\gamma$  Couplings in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8 \text{ TeV}$ .**  
S. Abachi *et al.* (DØ Collaboration), *Phys. Rev. Lett.* **75**, 1028 (1995).
- [104] **Transverse Energy Distributions within Jets in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8 \text{ TeV}$ .**  
S. Abachi *et al.* (DØ Collaboration), *Phys. Lett.* **B357**, 500 (1995).
- [105] **Second Generation Leptoquark Search in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8 \text{ TeV}$ .**  
S. Abachi *et al.* (DØ Collaboration), *Phys. Rev. Lett.* **75**, 3618 (1995).
- [106]  **$W$  and  $Z$  Boson Production in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8 \text{ TeV}$ .**  
S. Abachi *et al.* (DØ Collaboration), *Phys. Rev. Lett.* **75**, 1456 (1995).

- [107] **Search for Squarks and Gluinos in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8$  TeV.**  
S. Abachi *et al.* (DØ Collaboration), *Phys. Rev. Lett.* **75**, 618 (1995).
- [108] **Measurement of the  $WW\gamma$  Gauge Boson Couplings in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8$  TeV.**  
S. Abachi *et al.* (DØ Collaboration), *Phys. Rev. Lett.* **75**, 1034 (1995).
- [109] **A Study of the Strong Coupling Constant using  $W$ -Jets Processes.**  
S. Abachi *et al.* (DØ Collaboration), *Phys. Rev. Lett.* **75**, 3226 (1995).
- [110] **Search for  $W$  Boson Pair Production in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8$  TeV.**  
S. Abachi *et al.* (DØ Collaboration), *Phys. Rev. Lett.* **75**, 1023 (1995).
- [111] **Observation of the Top Quark.**  
S. Abachi *et al.* (DØ Collaboration), *Phys. Rev. Lett.* **74**, 2632 (1995).
- [112] **Search for Light Top Squarks in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8$  TeV.**  
S. Abachi *et al.* (DØ Collaboration), *Phys. Rev. Lett.* **76**, 2222 (1996).
- [113] **Search for  $\tilde{W}_1\tilde{Z}_2$  Production via Trilepton Final States in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8$  TeV.**  
S. Abachi *et al.* (DØ Collaboration), *Phys. Rev. Lett.* **76**, 2228 (1996).
- [114]  **$J/\psi$  Production in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8$  TeV.**  
S. Abachi *et al.* (DØ Collaboration), *Phys. Lett.* **B370**, 239 (1996).
- [115] **Search for Right-Handed  $W$  Bosons and Heavy  $W'$  in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8$  TeV.**  
S. Abachi *et al.* (DØ Collaboration), *Phys. Rev. Lett.* **76**, 3271 (1996).
- [116] **TheDØ Upgrade.**  
M. Wayne (for the DØ Collaboration) *Nucl. Instrum. Methods. A* **408**, 103 (1998).
- [117] **E823 (DØ Upgrade): Magnetic tracking.**  
By the DØ Collaboration (B. Gomez *et al.*), *Fermilab Proposal P-823*, October 1993, unpublished.

- [118] **The DØ Upgrade.**  
S. Abachi *et al.* (DØ Collaboration), Submitted to International Europhysics Conference on High Energy Physics (HEP 95), Brussels, Belgium, 27 Jul - 2 Aug 1995, in *International Europhysics Conference on High Energy Physics (HEP 95): Proceedings*, edited by J. Lemonne, C. Vander Velde, and F. Verbeure, World Scientific, Singapore, 1996.
- [119] **Studies of Topological Distributions of Inclusive Three- and Four-Jet Events in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8$  TeV.**  
S. Abachi *et al.* (DØ Collaboration), *Phys. Rev.* **D53**, 6000 (1996).
- [120] **Azimuthal Decorrelation of Jets Widely Separated in Rapidity**  
S. Abachi *et al.* (DØ Collaboration), *Phys. Rev. Lett.* **77**, 595 (1996).
- [121] **Isolated Photon Cross-Section in the Central and Forward Rapidity Regions in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8$  TeV.**  
S. Abachi *et al.* (DØ Collaboration), *Phys. Rev. Lett.* **77**, 5011 (1996).
- [122] **Search for Anomalous WW and WZ Production in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8$  TeV.**  
S. Abachi *et al.* (DØ Collaboration), *Phys. Rev. Lett.* **77**, 3303 (1996).
- [123] **Search for Additional Neutral Gauge Bosons.**  
S. Abachi *et al.* (DØ Collaboration), *Phys. Lett.* **B385**, 471, (1996).
- [124] **Measurement of the W Boson Mass.**  
S. Abachi *et al.* (DØ Collaboration), *Phys. Rev. Lett.* **77**, 3309 (1996).
- [125] **Jet Production via Strongly-Interacting Color-Singlet Exchange in  $p\bar{p}$  Collisions.**  
S. Abachi *et al.* (DØ Collaboration), *Phys. Rev. Lett.* **76**, 734 (1996).
- [126] **Search for a Fourth generation Charge  $-1/3$  Quark via Flavor Changing Neutral Current Decay.**  
S. Abachi *et al.* (DØ Collaboration), *Phys. Rev. Lett.* **78**, 3818 (1997).
- [127] **Limits on Anomalous  $WW\gamma$  Couplings from  $p\bar{p} \rightarrow W\gamma + X$  Events at  $\sqrt{s} = 1.8$  TeV.**  
S. Abachi *et al.* (DØ Collaboration), *Phys. Rev. Lett.* **78**, 3634 (1997).

- [128] **Search for Diphoton Events with Large Missing Transverse Energy in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8$  TeV.**  
S. Abachi *et al.* (DØ Collaboration), *Phys. Rev. Lett.* **78**, 2070 (1997).
- [129] **Search for Top Squark Pair Production in the Dielectron Channel.**  
S. Abachi *et al.* (DØ Collaboration), *Phys. Rev.* **D57**, 589 (1998).
- [130] **Study of the  $ZZ\gamma$  and  $Z\gamma\gamma$  Couplings in  $Z(\nu\nu)\gamma$  Production.**  
S. Abachi *et al.* (DØ Collaboration), *Phys. Rev. Lett.* **78**, 3640 (1997).
- [131] **Direct Measurement of the Top Quark Mass.**  
S. Abachi *et al.* (DØ Collaboration), *Phys. Rev. Lett.* **79**, 1197 (1997).
- [132] **Study of Gauge Boson Pair Production and Trilinear Couplings.**  
S. Abachi *et al.* (DØ Collaboration), *Phys. Rev.* **D56**, 6742 (1997).
- [133] **Cross Section for b-Jet Production in  $\bar{p}p$  Collisions at  $\sqrt{s} = 1.8$  TeV.**  
B. Abbott *et al.* (DØ Collaboration), *Phys. Rev. Lett.* **85**, 5068 (2000)
- [134] **Ratios of Multijet Cross Sections in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8$  TeV.**  
B. Abbott *et al.* (DØ Collaboration), *Phys. Rev. Lett.* **86**, 1955 (2001)
- [135] **Ratio of Jet Cross Sections in  $p\bar{p}$  Collisions at  $\sqrt{s} = 630$  GeV and 1800 GeV.**  
B. Abbott *et al.* (DØ Collaboration), *Phys. Rev. Lett.* **86**, 2523 (2001)
- [136] **Search for Large Extra Dimensions in Dielectron and Diphoton Production.**  
B. Abbott *et al.* (DØ Collaboration), *Phys. Rev. Lett.* **86**, 1156 (2001)
- [137] **Quasi-model-independent Search for New High  $p_T$  Physics at DØ.**  
B. Abbott *et al.* (DØ Collaboration), *Phys. Rev. Lett.* **86**, 3712 (2001)
- [138] **Inclusive Jet Production in  $p\bar{p}$  Collisions.**  
B. Abbott *et al.* (DØ Collaboration), *Phys. Rev. Lett.* **86**, 1707 (2001)

- [139] **Search for Electroweak Production of Single Top Quarks in  $p\bar{p}$  Collisions.**  
 B. Abbott *et al.*(DØ Collaboration), *Phys. Rev.* **D63**, 031101 (2001)
- [140] **Measurement of the Angular Distribution of Electrons from  $W \rightarrow e\nu$  Decays Observed in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8$  TeV.**  
 B. Abbott *et al.*(DØ Collaboration), *Phys. Rev.* **D63**, 072001 (2001)
- [141] **Differential Cross Section for W Boson Production as a Function of Transverse Momentum in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8$  TeV.**  
 B. Abbott *et al.*(DØ Collaboration), *Phys. Lett.* **B513**, 292 (2001)
- [142] **Measurement of the Ratio of Differential Cross Sections for W and Z Boson Production as a Function of Transverse Momentum in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8$  TeV.**  
 V. M. Abazov *et al.*(DØ Collaboration), *Phys. Lett.* **B517**, 299 (2001)
- [143] **Search for Single Top Quark Production at D0 Using Neural Networks.**  
 V. M. Abazov *et al.*(DØ Collaboration), *Phys. Lett.* **B517**, 282 (2001)
- [144] **The DØ Silicon Microstrip Tracker: Construction and Testing.**  
 P. A. Rapidis , in *High Energy Physics, ICHEP 2000, Proceedings of the 30th International Conference on High-Energy Physics , Osaka, Japan, 27 Jul - 2 Aug 2000* , Edited by C. .S. Lim and T. Yamanaka, World Scientific, Singapore, 2001, p. 1238.
- [145] **Search for New Physics using QUAERO: A General Interface to D0 Event Data.**  
 V. M. Abazov *et al.*(DØ Collaboration), *Phys. Rev. Lett.* **87**, 231801 (2001)
- [146] **Ratio of Isolated Photon Cross Sections in  $p\bar{p}$  Collisions at  $\sqrt{s} = 630$  GeV and 1800 GeV.**  
 V. M. Abazov *et al.*(DØ Collaboration), *Phys. Rev. Lett.* **87**, 251805 (2001)

- [147] **Search for Heavy Particles Decaying into Electron-positron Pairs in  $p\bar{p}$  Collisions.**  
V. M. Abazov *et al.*(DØ Collaboration), *Phys. Rev. Lett.* **87**, 061802 (2001)
- [148] **Search for First-generation Scalar and Vector Leptoquarks.**  
V. M. Abazov *et al.*(DØ Collaboration), *Phys. Rev.* **D64**, 092004 (2001)
- [149] **High- $p_T$  Jets in  $p\bar{p}$  Collisions at  $\sqrt{s} = 630$  GeV and 1800 GeV.**  
B. Abbott *et al.*(DØ Collaboration), *Phys. Rev.* **D64**, 032003 (2001)
- [150] **Quasi-model-independent Search for New Physics at Large Transverse Momentum.**  
B. Abbott *et al.*(DØ Collaboration), *Phys. Rev.* **D64**, 012004 (2001)
- [151] **Subjet Multiplicity of Gluon and Quark Jets Reconstructed with the  $k_{\perp}$  Algorithm in  $p\bar{p}$  Collisions.**  
V. M. Abazov *et al.*(DØ Collaboration), *Phys. Rev.* **D65**, 052008 (2002)
- [152] **Search for Minimal Supergravity in Single-electron Events with Jets and Large Missing Transverse Energy in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8$  TeV.**  
V. M. Abazov *et al.*(DØ Collaboration), *Phys. Rev.* **D66**, 112001 (2002)
- [153] **Improved W Boson Mass Measurement with the DØ Detector.** V. M. Abazov *et al.*(DØ Collaboration),*Phys. Rev.* **D66**, 012001 (2002)
- [154] **Direct Measurement of the W boson decay width.**  
V. M. Abazov *et al.*(DØ Collaboration), *Phys. Rev.* **D66**, 032008 (2002)
- [155] **Direct Search for Charged Higgs Bosons in Decays of Top Quarks.**  
V. M. Abazov *et al.*(DØ Collaboration), *Phys. Rev. Lett.* **88**, 151803 (2002)

- [156] **Search for Leptoquark Pairs Decaying to  $\nu\nu$ + jets in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8$  TeV.**  
V. M. Abazov *et al.*(DØ Collaboration), *Phys. Rev. Lett.* **88**, 191801 (2002)
- [157] **Search for the Scalar Top Quark in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8$  TeV.**  
V. M. Abazov *et al.*(DØ Collaboration), *Phys. Rev. Lett.* **88**, 171802 (2002)
- [158] **The Inclusive Jet Cross-section in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8$  TeV using the  $k_{\perp}$  Algorithm.**  
V. M. Abazov *et al.*(DØ Collaboration),*Phys. Lett.* **B525**, 211 (2002)
- [159] **Search for R-parity Violating Supersymmetry in Two-muon and Four-jet Topologies.**  
V. M. Abazov *et al.*(DØ Collaboration),*Phys. Rev. Lett.* **89**, 171801 (2002)
- [160] **Search for the Production of Single Sleptons through R-parity Violation in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8$  TeV.**  
V. M. Abazov *et al.*(DØ Collaboration), *Phys. Rev. Lett.* **89**, 261801 (2002).
- [161] **Run IIb Upgrade - Technical Design Report - DØ Collaboration.**  
V. M. Abazov *et al.*(DØ Collaboration), *Unpublished*, FERMILAB-PUB-02-327-E, (2002)
- [162] **Multiple jet production at low transverse energies in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8$  TeV.**  
V. M. Abazov *et al.*(DØ Collaboration), *Phys. Rev.* **D67**, 052001 (2003).
- [163]  **$t\bar{t}$  Production Cross Section in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.8$  TeV.**  
V. M. Abazov *et al.*(DØ Collaboration), *Phys. Rev.* **D67**, 012004 (2003)

- [164] **Search for Large Extra Dimensions in the Monojet +  $\cancel{E}_T$  Channel at DØ.**  
V. M. Abazov *et al.*(DØ Collaboration), *Phys. Rev. Lett.* **90**, 251802 (2003).
- [165] **Observation of diffractively produced W and Z bosons in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.800$  GeV .**  
V. M. Abazov *et al.*(DØ Collaboration) , *Phys. Lett.* **B574**, 169 (2003).
- [166] **Observation and properties of the X(3872) decaying to  $J/\psi \pi^+\pi^-$  in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV .**  
V. M. Abazov *et al.*(DØ Collaboration), *Phys. Rev. Lett.* **93**, 162002 (2004).
- [167] **Search for doubly charged Higgs boson pair production in the decay to  $\mu^+\mu^+\mu^-\mu^-$  in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV .**  
V. M. Abazov *et al.*(DØ Collaboration) , *Phys. Rev. Lett.* **93**, 141801 (2004).
- [168] **Search for Pair Production of Light Scalar Top Quarks in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV .**  
V. M. Abazov *et al.*(DØ Collaboration) , *Phys. Rev. Lett.* **93**, 011801 (2004).
- [169] **Combination of CDF and DØ results on W boson mass and width.**  
V. M. Abazov *et al.*(DØ Collaboration) , *Phys. Rev.* **D70** , 092008 (2004).
- [170] **Search for 3- and 4- body decays of the scalar top quark in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV .**  
V. M. Abazov *et al.*(DØ Collaboration) , *Phys. Lett.* **B581**, 147 (2004).
- [171] **Search for new particles in the two-jet decay channel with the DØ detector.**  
V. M. Abazov *et al.*(DØ Collaboration) , *Phys. Rev.* **D69**, 111101 (2004).

- [172] **Search for narrow  $t\bar{t}$  resonances in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV .**  
V. M. Abazov *et al.* (DØ Collaboration), *Phys. Rev. Lett.* **92**, 221801 (2004).
- [173] **SVX4: A New Deep-Submicron Readout IC for the Tevatron Collider at Fermilab.**  
B. Krieger *et al.*, *IEEE Trans. Nucl. Sci.* **51**, 1968 (2004).
- [174] **A precision measurement of the mass of the top quark.**  
V. M. Abazov *et al.* (DØ Collaboration), *Nature* **429**, 638 (2004).
- [175] **White paper report on using nuclear reactors to search for a value of  $\theta_{13}$**   
K. Anderson *et al.*, *Unpublished report* FERMILAB-PUB-04-180, Jan 2004
- [176] **Search for pair production of light scalar top quarks in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV**  
V. M. Abazov *et al.* (DØ Collaboration), *Phys. Rev. Lett.* **93**, 011801 (2004)
- [177] **Helicity of the W boson in lepton + jets  $t\bar{t}$  events.**  
V. M. Abazov *et al.* (DØ Collaboration), *Phys. Lett.* **B617**, 1 (2005).
- [178] **Search for Right-Handed W Bosons in Top Quark Decay.**  
V. M. Abazov *et al.* (DØ Collaboration), *Phys. Rev.* **D72**, 011104 (2005).
- [179] **Measurement of the  $p\bar{p} \rightarrow W\gamma + X$  cross section at  $\sqrt{s} = 1.96$  TeV and  $WW\gamma$  anomalous coupling limits.**  
V. M. Abazov *et al.* (DØ Collaboration), *Phys. Rev.* **D71**, 091108 (2005)
- [180] **Study of  $Z\gamma$  events and limits on anomalous  $ZZ\gamma$  and  $Z\gamma\gamma$  couplings in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV .**  
V. M. Abazov *et al.* (DØ Collaboration) , *Phys. Rev. Lett.* **95**, 051802 (2005).

- [181] **Measurement of inclusive differential cross sections for  $\Upsilon(1S)$  production in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV .**  
V. M. Abazov *et al.*(DØ Collaboration) , *Phys. Rev. Lett.* **94**, 232001 (2005).
- [182] **Search for first-generation scalar leptoquarks in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV .**  
V. M. Abazov *et al.* (DØ Collaboration), *Phys. Rev.* **D71**, 071104 (2005).
- [183] **First measurement of  $\sigma(p\bar{p} \rightarrow Z) \times Br(Z \rightarrow \tau\tau)$  at  $\sqrt{s} = 1.96$  TeV.**  
V. M. Abazov *et al.*(DØ Collaboration) , *Phys. Rev.* **D71**, 072004 (2005).
- [184] **A search for anomalous heavy-flavor quark production in association with W bosons.**  
V. M. Abazov *et al.*(DØ Collaboration) , *Phys. Rev. Lett.* **94**, 152002 (2005).
- [185] **Measurement of the top quark mass in all-jet events.**  
V. M. Abazov *et al.*(DØ Collaboration), *Phys. Lett.* **B606**, 25 (2005).
- [186] **A measurement of the ratio of inclusive cross sections  $\sigma(p\bar{p} \rightarrow Z + b - jet)/\sigma(p\bar{p} \rightarrow Z + jet)$  at  $\sqrt{s} = 1.96$  TeV.**  
V. M. Abazov *et al.* (DØ Collaboration), *Phys. Rev. Lett.* **94**, 161801 (2005).
- [187] **Measurement of the W W production cross section in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV .**  
V. M. Abazov *et al.*(DØ Collaboration) , *Phys. Rev. Lett.* **94**, 151801 (2005).
- [188] **Search for  $Wb\bar{b}$  and  $WH$  production in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV .**  
V. M. Abazov *et al.* (DØ Collaboration), *Phys. Rev. Lett.* **94**, 091802 (2005).

- [189] **Measurement of the  $\Lambda_b^0$  lifetime in the decay  $\Lambda_b^0 \rightarrow J/\psi \Lambda^0$  with the DØ detector.**  
V. M. Abazov *et al.* (DØ Collaboration), *Phys. Rev. Lett.* **94**, 102001 (2005).
- [190] **Measurement of the ratio of  $B^+$  and  $B^0$  meson lifetimes.**  
V. M. Abazov *et al.* (DØ Collaboration), *Phys. Rev. Lett.* **94**, 182001 (2005).
- [191] **Search for the flavor-changing neutral current decay  $B_s^0 \rightarrow \mu^+ \mu^-$  in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV with the DØ detector.**  
V. M. Abazov *et al.* (DØ Collaboration), *Phys. Rev. Lett.* **94**, 071802 (2005).
- [192] **Measurement of the  $B_s^0$  lifetime in the exclusive decay channel  $B_s^0 \rightarrow J/\psi \phi$ .**  
V. M. Abazov *et al.* (DØ Collaboration), *Phys. Rev. Lett.* **94**, 042001 (2005).
- [193] **Measurement of dijet azimuthal decorrelations at central rapidities in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV.**  
V. M. Abazov *et al.* (DØ Collaboration), *Phys. Rev. Lett.* **94**, 221801 (2005).
- [194] **Search for supersymmetry with gauge-mediated breaking in diphoton events at DØ.**  
V. M. Abazov *et al.* (DØ Collaboration), *Phys. Rev. Lett.* **94**, 041801 (2005).
- [195] **Helicity of the W boson in lepton + jets  $t\bar{t}$  events.**  
V. M. Abazov *et al.* (DØ Collaboration), *Phys. Lett.* **B617**, 1 (2005).
- [196] **Measurement of the lifetime difference in the  $B_s^0$  system.**  
V. M. Abazov *et al.* (DØ Collaboration), *Phys. Rev. Lett.* **95**, 171801 (2005).
- [197] **Measurement of semileptonic branching fractions of B mesons to narrow  $D^{**}$  states.**  
V. M. Abazov *et al.* (DØ Collaboration), *Phys. Rev. Lett.* **95**, 171803 (2005).

- [198] **Search for large extra spatial dimensions in dimuon production at DØ.**  
V. M. Abazov *et al.* (DØ Collaboration), *Phys. Rev. Lett.* **95**, 161602 (2005)
- [199] **Measurement of the  $t\bar{t}$  production cross section in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV in dilepton final states.**  
V. M. Abazov *et al.* (DØ Collaboration), *Phys. Lett.* **B626**, 55 (2005)
- [200] **Search for single top quark production in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV.**  
V. M. Abazov *et al.* (DØ Collaboration), *Phys. Lett.* **B622**, 265 (2005)
- [201] **Search for Randall-Sundrum gravitons in dilepton and diphoton final states.**  
V. M. Abazov *et al.* (DØ Collaboration), *Phys. Rev. Lett.* **95**, 091801 (2005)
- [202] **Measurement of the  $t\bar{t}$  production cross section in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV using lepton + jets events with lifetime b-tagging.**  
V. M. Abazov *et al.* (DØ Collaboration), *Phys. Lett.* **B626**, 35 (2005)
- [203] **The DØ Silicon Microstrip Tracker .**  
S.N. Ahmed, *et al.* (DØ Collaboration), *Nucl. Instrum. Meth.* **A634**, 8 (2011)
- [204] **Measurement of the  $t\bar{t}$  production cross section in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV using kinematic characteristics of lepton + jets events.**  
V. M. Abazov *et al.* (DØ Collaboration), *Phys. Lett.* **B626**, 45 (2005)
- [205] **Search for supersymmetry via associated production of charginos and neutralinos in final states with three leptons.**  
V. M. Abazov *et al.* (DØ Collaboration), *Phys. Rev. Lett.* **95**, 151805 (2005)
- [206] **Production of W Z events in p anti-p collisions at  $s^{**}(1/2) = 1.96$ -TeV and limits on anomalous W W Z couplings.**  
V. M. Abazov *et al.* (DØ Collaboration), *Phys. Rev. Lett.* **95**, 141802 (2005)

- [207] **Search for neutral supersymmetric Higgs bosons in multijet events at  $\sqrt{s} = 1.96$  TeV.**  
V. M. Abazov *et al.* (DØ Collaboration), *Phys. Rev. Lett.* **95**, 151801 (2005)
- [208] **Measurement of the isolated photon cross section in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV.**  
V. M. Abazov *et al.* (DØ Collaboration), *Phys. Lett.* **B639**, 151 (2006)  
[Erratum-*ibid* **B658**, 285 (2008)]
- [209] **The Upgraded DØ Detector.**  
V. M. Abazov *et al.* (DØ Collaboration), *Nucl. Instrum. Meth.* **A565**, 463 (2006)
- [210] **Search for the Higgs boson in  $H \rightarrow W W^{(*)}$  decays in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV.**  
V. M. Abazov *et al.* (DØ Collaboration), *Phys. Rev. Lett.* **96**, 011801 (2006)
- [211] **Search for a heavy resonance decaying into a  $Z$ + jet final state in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV using the DØ detector.**  
V. M. Abazov *et al.* (DØ Collaboration), *Phys. Rev.* **D74**, 011104 (2006)
- [212] **Search for particles decaying into a  $Z$  boson and a photon in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV.**  
V. M. Abazov *et al.* (DØ Collaboration), *Phys. Lett.* **B641**, 415 (2006)
- [213] **Search for resonant second generation slepton production at the Tevatron.**  
V. M. Abazov *et al.* (DØ Collaboration), *Phys. Rev. Lett.* **97**, 111801 (2006)
- [214] **Search for neutral Higgs bosons decaying to  $\tau$  pairs in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV.**  
V. M. Abazov *et al.* (DØ Collaboration), *Phys. Rev. Lett.* **97**, 121802 (2006)
- [215] **Search for R-parity violating supersymmetry via the  $LL\bar{E}$  couplings  $\lambda_{121}$ ,  $\lambda_{122}$  or  $\lambda_{133}$  in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV.**  
V. M. Abazov *et al.* (DØ Collaboration), *Phys. Lett.* **B638**, 441 (2006)

- [216] **A Precise measurement of the  $B_s^0$  lifetime.**  
V. M. Abazov *et al.* (DØ Collaboration), *Phys. Rev. Lett.* **97**, 241801 (2006)
- [217] **Search for excited muons in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV.**  
V. M. Abazov *et al.* (DØ Collaboration), *Phys. Rev.* **D73**, 111102 (2006)
- [218] **Search for squarks and gluinos in events with jets and missing transverse energy in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV.**  
V. M. Abazov *et al.* (DØ Collaboration), *Phys. Lett.* **B638**, 119 (2006)
- [219] **Multivariate searches for single top quark production with the DØdetector.**  
V. M. Abazov *et al.* (DØ Collaboration), *Phys. Rev.* **D75**, 092007 (2007)
- [220] **Search for the rare decay  $B_s^0 \rightarrow \phi\mu^+\mu^-$  with the DØdetector.**  
V. M. Abazov *et al.* (DØ Collaboration), *Phys. Rev.* **D74**, 031107 (2006)
- [221] **First direct two-sided bound on the  $B_s^0$  oscillation frequency.**  
V. M. Abazov *et al.* (DØ Collaboration), *Phys. Rev. Lett.* **97**, 021802 (2006)
- [222] **Measurement of  $B(t \rightarrow Wb)/B(t \rightarrow Wq)$  at  $\sqrt{s} = 1.96$  TeV.**  
V. M. Abazov *et al.* (DØ Collaboration), *Phys. Lett.* **B639**, 616 (2006)
- [223] **Search for pair production of second generation scalar leptoquarks in  $p$  anti- $p$  collisions at  $\sqrt{s} = 1.96$  TeV.**  
V. M. Abazov *et al.* (DØ Collaboration), *Phys. Lett.* **B636**, 183 (2006)
- [224] **Report of the APS Neutrino Study Reactor Working Group.**  
E. Abouzaid *et al.*, Unpublished report LBNL-56599 (Oct. 2004)
- [225] **The neutrino factory and beta beam experiments and development.**  
C. Albright *et al.* [Neutrino Factory/Muon Collider Collaboration], Unpublished report BNL-72369-2004, FERMILAB-TM-2259, Nov 2004.

- [226] **FLARE: Fermilab liquid argon experiments.**  
L. Bartoszek *et al.*, Unpublished FERMILAB-PROPOSAL-0942, Aug 2004; arXiv:hep-ex/0408121.
- [227] **A Large Liquid Argon Time Projection Chamber for Long-baseline Off-axis Neutrino Oscillation Physics.**  
D. Finley *et al.*, submission to NuSAG, Aug 2005 ; Available as FERMILAB-FN-0776-E, Sep 2005. 63pp.
- [228] **Results from irradiation tests on DØ Run 2a silicon detectors at the radiation damage facility at Fermilab.**  
J. Gardner *et al.* (DØ Collaboration), Unpublished note, available as FERMILAB-TM-2345-E, Mar 2006. 17pp.
- [229] **The Stimulus Test Stand.**  
L. Christofek, P. Rapidis, and A. Reinhard, Unpublished note, available as FERMILAB-TM-2315-E, Jun 2005. 13pp.
- [230] **Preliminary Test Results For The SVX4.**  
L. Christofek, K. Hanagaki, P. Rapidis and M. Utes, Unpublished note, available as FERMILAB-TM-2316-E, Jun 2005. 49pp.
- [231] **Test results for the SVX4 version of A/B chip.**  
L. Christofek, K. Hanagaki, M. Jun, D. Kau, P. Rapidis and M. Utes, Unpublished note, available as FERMILAB-TM-2317-E, Jun 2005. 31pp
- [232] **SVX4 user's manual.**  
L. Christofek *et al.*, Unpublished note, available as FERMILAB-TM-2318-E, Jun 2005, 59pp.
- [233] **Work at FNAL to achieve long electron drift lifetime in liquid argon.**  
D. Finley, W. Jaskierny, C. Kendziora, J. Krider, S. Pordes, P. A. Rapidis and T. Tope, Unpublished note, available as FERMILAB-TM-2385-E, Oct 2006.
- [234] **Test of purging a small tank with argon.**  
W. Jaskierny, H. Jostlein, S. Pordes, P. A. Rapidis and T. Tope, Unpublished note, available as FERMILAB-TM-2384-E, Oct 2006.

- [235] **KM3NeT: A large underwater neutrino telescope in the Mediterranean Sea.**  
P. A. Rapidis (for the KM3NeT consortium), Talk at the *10th International Conference on Topics in Astroparticle and Underground Physics (TAUP 2007)*, 11-15 Sep 2007, Sendai, Japan;  
*Journal of Physics: Conference Series*, **120** 062011 (2008).
- [236] **KM3NeT, Conceptual Design Report for a Deep-Sea Research Infrastructure Incorporating a Very Large Volume Neutrino Telescope in the Mediterranean Sea.**  
The KM3NeT consortium, ISBN 978-90-6488-031-5, April 2008, 120pp.  
Can be found online at :  
<http://www.km3net.org/CDR/CDR-KM3NeT.pdf> also at  
<http://www.inp.demokritos.gr/~rapidis/CDR-KM3NeT.pdf>
- [237] **The NESTOR neutrino telescope project.**  
P. A. Rapidis (for the NESTOR collaboration), Invited talk at the *International Workshop on a Very Large Volume Neutrino Telescope for the Mediterranean Sea VLV $\nu$ T08*, Toulon, France, 22-24 April 2008;  
*Nucl. Instrum. Methods. A* **602**, 54 (2009).
- [238] **Proposal to Measure High Energy Neutrinos in Coincidence with Gamma Ray Bursts.**  
H.J.Crawford *et al.* (NuBE collaboration), unpublished proposal, June 2006.  
Available from:  
[http://www.inp.demokritos.gr/~rapidis/km3net\\_talks/NUBEPRO-060620\\_last.pdf](http://www.inp.demokritos.gr/~rapidis/km3net_talks/NUBEPRO-060620_last.pdf) ,  
see also: <http://hena.lbl.gov/NuBE/index.html> .
- [239] **Very Large Volume Neutrino Telescope for the Mediterranean Sea. Proceedings, 4th International Workshop, VLV $\nu$ T09, Athens, Greece, October 13-15, 2009.**  
E.G. Anassontzis, P.A. Rapidis, L.K. Resvanis, (eds.) *Nucl. Instrum. Methods A* **626-627**, S1, (2011)
- [240] **Absolute angular calibration of a submarine km<sup>3</sup> neutrino telescope.**  
E. Anassontzis *et al.* *Nucl. Instrum. Methods. A* **626-627**, S226, (2011).

- [241] **The KM3NeT project - Progress towards a large underwater neutrino telescope**  
P.A. Rapidis, for the KM3NeT Consortium. Invited talk at the *XXIV International Conference on Neutrino Physics and Astrophysics (Neutrino 2010)*, June 14-19, 2010, Athens, Greece. *Nuclear Physics B, Proceedings Supplements* **229-232**, 279 (2012)
- [242] **Water transparency measurements in the deep Ionian Sea.**  
E.G. Anassontzis *et al.*. *Astropart.Phys.* **34**, 187, (2010).  
*I have included this in my publications since I directed and carried out most of the analysis and the writing of this paper. I withdrew my name from the author list in protest over the capricious behavior of Prof. Leo Resvanis who insistend on excluding from the author list persons that signiificantly contributed to this work while including others that were hardly involved in it.*
- [243] **KM3NeT, Technical Design Report for a Deep-Sea Research Infrastructure in the Mediterranean Sea Incorporating a Very Large Volume Neutrino Telescope.**  
The KM3NeT consortium, ISBN 978-90-6488-033-9, March 2011, 193pp.  
Can be found online at :  
<http://www.km3net.org/TDR/TDRKM3NeT.pdf> also at  
<http://www.inp.demokritos.gr/~rapidis/TDR-KM3NeT.pdf>
- [244] **Detection Potential of the KM3NeT Detector for High- Energy Neutrinos from the Fermi Bubbles.**  
S. Adrian-Martinez *et al.* (KM3NeT Collaboration), *Astropart.Phys.* **42**, 7 (2013).
- [245] **Expansion Cone for the 3-inch PMTs of the KM3NeT Optical Modules.**  
S. Adrian-Martinez *et al.* (KM3NeT Collaboration), *Journal of Instrumentation* **8**, T03006 (2013).
- [246] **Deep Sea Tests of a Prototype of the KM3NeT Digital Optical Module.**  
S. Adrian-Martinez *et al.* (KM3NeT Collaboration), *Eur. Phys. J. C* **74** (2014) 9, 3056.

- [247] **Design and Development of the Power Supply Board within the Digital Optical Module in KM3NeT**  
 E.G. Anassontzis *et al.* (KM3NeT Collaboration), *Proceedings of Science, Technology and Instrumentation in Particle Physics 2014*, PoS TIPP2014 (2014) 188.  
 ([http://pos.sissa.it/archive/conferences/213/188/TIPP2014\\_188.pdf](http://pos.sissa.it/archive/conferences/213/188/TIPP2014_188.pdf))
- [248] **The prototype detection unit of the KM3NeT detector**  
 S. Adrian-Martinez *et al.* (KM3NeT Collaboration), *Eur.Phys.J.***C76** (2016) 2, 54.
- [249] **Letter of Intent for KM3NeT 2.0**  
 S. Adrian-Martinez *et al.* (KM3NeT Collaboration), *J. Phys. G: Nucl. Part. Phys.* **43** (2016) 084001 (130pp) Also available as e-Print: arXiv:1601.07459 [astro-ph.IM]
- [250] **GRBNeT A prototype for an autonomous underwater neutrino detector**  
 K. Pikounis *et al.*. *EPJ Web Conf.***116** (2016) 09004.
- [251] **Digital and Analog Electronics for an autonomous, deep-sea, Gamma Ray Burst Neutrino prototype detector.**  
 K. Manolopoulos, A. Belias, C. Markou, P. Rapidis, and E. Kappos *EPJ Web Conf.***116** (2016) 05010.