CURRICULUM VITAE

Name: Sarah Eno

1. Personal Information

Appointment: Department of Physics
Current Rank: Associate Professor
Date of Appointment to Current Rank: August 1999

Education:

Ph.D.	Univerisity of Rochester	Febuary 1990, Physics
M.A.	University of Rochester	May 1986, Physics
B.A.	Gettysburg College	June 1984, Physics minor in mathematics

Employment Background:

University of Maryland at College Park
1999-present, Associate Professor
Physics Department

University of Maryland at College Park
1993-1999, Assistant Professor
Physics Department

University of Chicago
1992-1993, Research Scientist
Enrico Fermi Institute

University of Chicago
1989-1992, Research Associate
Enrico Fermi Institute

2. Research, Scholarly and Creative Activities

2.a - Books

2.a.iii. *Chapters in Books*

- Editor and main author for the HCAL/JET/MET sections of Chapters 14 and 15 of "CMS: The TriDAS Project Technical Design Report, Volume 2: Data Acquisition and High-Level Trigger", CERN/LHCC 2002-26 (2002
- M. Carena, R. L. Culbertson, S. Eno, H. J. Frisch, and S. Mrenna, "The Search for Supersymmetry at the Tevatron Collider", in "Perspectives on Supersymmetry", Gordon L. Kane, editor, World Scientific, Singapore (1998).
- S. Eno, "On the Importance of Mentoring for New Faculty Members", in "Essays on Quality Learning", Steven Selden, Editor, University of Maryland Press (1998).

2.b - Articles in Refereed Journals

2.b.i. *Review Articles*

1. M. Carena, R. L. Culbertson, S. Eno, H. J. Frisch, and S. Mrenna, "The Search for Supersymmetry at the Tevatron Collider", Rev. Mod. Phys. **71** 937-981, 1999.

2.b.ii. *Physics Research*

1. H. Harada, S. Eno, R. Poling, N.M. Shaw, E.H. Thorndike, K. Abe, and Y. Fujii "Electron Identification using Synchrotron Radiation " *Nuclear Instruments and Methods in Physics Research* **A265**, 141 (1988) .
2. K. Ueno, *et al.* "The design of the AMY central drift chamber and performance in a 3 T magnetic field " *Nuclear Instruments and Methods in Physics Research* **A323**, 601 (1992) .
3. H. Sagawa, *et al.* (AMY Collaboration) "Measurement of R and a Search for Heavy Quark Production in e^+e^- Annihilation at $\sqrt{s} = 50$ and 52 GeV" *Physical Review Letters* **60**, 93 (1988) .
4. S. Igarashi, *et al.* (AMY Collaboration) "Search for Isolated Leptons in Low Thrust e^+e^- Annihilation Events at $\sqrt{s} = 50$ and 52 GeV" *Physical Review Letters* **60**, 2359 (1988) .

5. G.N. Kim, *et al.* (AMY Collaboration) "Experimental Mass Limit for a Fourth Generation Sequential Lepton from e^+e^- Annihilations at $\sqrt{s}$ = 56 GeV" *Physical Review Letters* **61**, 911 (1988) .

6. I.H. Park, *et al.* (AMY Collaboration) "Experimental Evidence for the Non-Abelian Nature of QCD from a Study of Multijet Events Produced in e^+e^- Annihilations " *Physical Review Letters* **62**, 1713 (1989) .

7. T. Mori, *et al.* (AMY Collaboration) "Measurement of the e^+e^- Total Hadronic Cross Section and a Determination of M_z and $\Lambda_{\overline{MS}}$ " *Physics Letters B* **218**, 499 (1989) .

8. A. Bacala, *et al.* (AMY Collaboration) "Measurements of Cross Sections and Charge Asymmetries for $e^+e^- \to \tau^+\tau^-$ and $e^+e^- \to \mu^+\mu^-$ for $\sqrt{s}$ from 50 and 57 GeV " *Physics Letters B* **218**, 112 (1989) .

9. S.K. Kim, *et al.* (AMY Collaboration) "Search for the Substructure of Leptons in High Energy QED Processes at TRISTAN " *Physics Letters B* **223**, 476 (1989) .

10. N. M. Shaw, *et al.* (AMY Collaboration) "Search for Unstable Heavy Neutral Leptons in e^+e^- Annihilations at $\sqrt{s}$ from 50 to 60.8 GeV" *Phys. Rev. Lett.* **63**, 1342 (1989) .

11. Y. K. Kim, *et al.* (AMY Collaboration) "Comparison of Quark and Gluon Jets Produced in High-Energy e^+e^- Annihilations" *Phys. Rev. Lett.* **63**, 1772 (1989) .

12. E.H. Low, *et al.* (AMY Collaboration) "Search for Nonminimal Higgs Production in e^+e^- Annihilations at $\sqrt{s}$ approximately 56 GeV" *Physics Letters B* **228**, 548 (1989) .

13. S. Eno, *et al.* (AMY Collaboration) "Search for a Fourth-Generation Charge -1/3 Quark" *Phys. Rev. Lett.* **63**, 1342 (1989) .

14. Y. Fujii, *et al.* "An X-ray Detector as a Detector for Electron Identification " *Nuclear Instruments and Methods in Physics Research* **A283**, 665 (1989) .

15. H. Sagawa, *et al.* (AMY Collaboration) "Measurement of the $b\bar{b}$ Forward-Backward Charge Asymmetry between $\sqrt{s} = 52$ and 57 GeV" *Phys. Rev. Lett.* **63**, 2341 (1989) .

16. Y. Sakai, *et al.* (AMY Collaboration) "A Search for SUSY Particles in e^+e^- Annihilations at $\sqrt{s} = 60.8$ GeV" *Physics Letters* **B234**, 534 (1990) .

17. F. Abe, *et al.* (CDF Collaboration) "Measurement of the W-Boson P_T Distribution in $p\bar{p}$ Collisions at $\sqrt{s} = 1.8$ TeV" *Phys. Rev. Lett.* **66**, 2951(1991).

18. F. Abe, *et al.* (CDF Collaboration) "Determination of $sin^2\theta_W$ from the Forward-Backward Asymmetry in $p\bar{p}$ Collisions at $\sqrt{s}$ = 1.8 TeV" *Phys. Rev. Lett.* **67**, 1502(1991).

19. F. Abe, *et al.* (CDF Collaboration) "Measurement of the e^+e^- Invariant-Mass Distribution in $p\bar{p}$ Collisions at $\sqrt{s} = 1.8$ TeV" *Phys. Rev. Lett.* **67**, 2418(1991).

20. F. Abe, *et al.* (CDF Collaboration) "Search for $W' \to e\nu$ and $W' \to \mu\nu$ in $p\bar{p}$ Collisions at $\sqrt{s} = 1.8$ TeV" *Phys. Rev. Lett.* **67**, 2609(1991).

21. F. Abe, *et al.* (CDF Collaboration) "Properties of Events with Large Total Transverse Energy Produced in $p\bar{p}$ Collisions at $\sqrt{s} = 1.8$ TeV" *Phys. Rev. D*, **45**, 2249(1992)

22. F. Abe, *et al.* (CDF Collaboration) "Measurement of $B^0\overline{B^0}$ Mixing at the Fermilab Tevatron Collider" *Phys. Rev. Lett.* **67**, 3351(1991).

23. F. Abe, *et al.* (CDF Collaboration) "The Topology of Three Jet Events in $p\bar{p}$ Collisions at $\sqrt{s} = 1.8$ TeV" *Phys. Rev. D*, **45**, 1448(1992)

24. F. Abe, *et al.* (CDF Collaboration) "Inclusive Jet Cross Section in $p\bar{p}$ Collisions at $\sqrt{s} = 1.8$ TeV" *Phys. Rev. Lett.* **68**, 1104(1992).

25. F. Abe, *et al.* (CDF Collaboration) "Measurement of the Z P_T Distribution in $p\bar{p}$ Collisions at $\sqrt{s} = 1.8$ TeV" *Phys. Rev. Lett.* **67**, 2937(1991).

26. F. Abe, *et al.* (CDF Collaboration) "Lepton Asymmetry in W Decays from $p\bar{p}$ Collisions at $\sqrt{s} = 1.8$ TeV" *Phys. Rev. Lett.* **68**, 1458(1992).

27. F. Abe, *et al.* (CDF Collaboration) "Measurement of the Ratio $\sigma \cdot B(W \to \tau\nu)/\sigma \cdot B(W \to e\nu)$ in $p\bar{p}$ collisions at $\sqrt{s}$ =1.8 TeV, as a Test of Lepton Universality " *Phys. Rev. Lett.* **68**, 3398(1992).

28. F. Abe, *et al.* (CDF Collaboration) "A Lower Limit on the Top Quark Mass from Events with Two Leptons in $p\bar{p}$ Collisions at $\sqrt{s}$ =1.8 TeV " *Phys. Rev. Lett.* **68**, 447(1992).

29. F. Abe, *et al.* (CDF Collaboration) "A Search for New Gauge Bosons in $p\bar{p}$ Collisions at $\sqrt{s} = 1.8$ TeV " *Phys. Rev. Lett.* **68**, 1463(1992).

30. F. Abe, *et al.* (CDF Collaboration) "A Limit on the Top Quark Mass from Proton-Antiproton Collisions at $\sqrt{s} = 1800$ GeV " *Phys. Rev. D* **45**, 3921(1992).

31. F. Abe, *et al.* (CDF Collaboration) "A Measurement of the B Meson and b Quark Cross Section at $\sqrt{s}$ =1.8 TeV Using the Exclusive Decay $B^{+-} \to J/\Psi K^{+-}$ " *Phys. Rev. Lett.* **68**, 3403(1992).

32. F. Abe, *et al.* (CDF Collaboration) "Measurement of the Isolated Prompt Photon Cross Section in $p\bar{p}$ Collisions at $\sqrt{s} = 1.8$ TeV " *Phys. Rev. Lett.* **68**, 2734(1992).

33. F. Abe, *et al.* (CDF Collaboration) "A Measurement of the Production and Muonic Decay rate of W and Z Bosons in $p\bar{p}$ Collisions at $\sqrt{s}$=1.8 TeV " *Phys. Rev. Lett.* **69**, 28(1992).

34. F. Abe, *et al.* (CDF Collaboration) "Comparison of Jet Production in $\overline{p}$-p collisions at $\sqrt{s}$=546 GeV and $\sqrt{s}$=1.8 TeV " *Phys. Rev. Lett.* **70**, 1376(1993).

35. F. Abe, *et al.* (CDF Collaboration) "Search for $\Lambda_B \to J/\psi\Lambda_0$ in $p\bar{p}$ Collisions at $\sqrt{s}$=1.8 TeV " *Phys. Rev. D* **47**, 2639(1993).

36. F. Abe, *et al.* (CDF Collaboration) "Inclusive J/ψ ψ(2S) and B Quark Production in $\overline{p}$-p Collisions at $\sqrt{s}$=1.8 TeV " *Phys. Rev. Lett.* **69**, 3704(1992).

37. F. Abe, *et al.* (CDF Collaboration) "A Measurement of Jet Shapes in $p\bar{p}$ Collisions at $\sqrt{s}$=1.8 TeV " *Phys. Rev. Lett.* **70**, 713(1993).

38. F. Abe, *et al.* (CDF Collaboration) "Search for Squarks and Gluinos from $\overline{p}$-p Collisions at $\sqrt{s}$=1.8 TeV " *Phys. Rev. Lett.* **69**, 3439(1992).

39. F. Abe, *et al.* (CDF Collaboration) "Limit on the Rare Decay $W \to \gamma\pi^{\pm}$ in $p\bar{p}$ Collisions at $\sqrt{s}$=1.8 TeV " *Phys. Rev. Lett.* **69**, 2160(1992).

40. F. Abe, *et al.* (CDF Collaboration) "The Dijet Angular Distribution in $p\bar{p}$ Collisions at $\sqrt{s}$=1.8 TeV " *Phys. Rev. Lett.* **69**, 2869(1992).

41. F. Abe, *et al.* (CDF Collaboration) "Limits on the Production of Massive Stable Charged Particles " *Phys. Rev. D* **46**, 1889(1992).

42. F. Abe, *et al.* (CDF Collaboration) "Inclusive χ_C and b Quark Production in $p\bar{p}$ collisions at $\sqrt{(}S) = 1.8$ TeV" *Phys.Rev.Lett.* **71**, 2537(1993).

43. F. Abe, *et al.* (CDF Collaboration) "Measurement of Bottom Quark Production in 1.8-Tev $p\bar{p}$ Collisions using Semileptonic Decay Muons" *Phys.Rev.Lett.* **71**, 2396(1993).

44. F. Abe, *et al.* (CDF Collaboration) "Observation of the Decay B0(s) $\to$ J/Ψ ϕ in $p\bar{p}$ Collisions at $\sqrt{(}S) = 1.8$ TeV" *Phys.Rev.Lett.* **71**, 1685(1993).

45. F. Abe, *et al.* (CDF Collaboration) "A Search for First Generation Leptoquarks in $p\bar{p}$ Collisions at $\sqrt{(}S) = 1.8$ TeV" *Phys.Rev.D* **48**, 3939(1993).

46. F. Abe, *et al.* (CDF Collaboration) "Measurement of the Bottom Quark Production Cross-Section Using Semileptonic Decay Electrons in $p\bar{p}$ collisions at $\sqrt{(}S) = 1.8$ TeV" *Phys.Rev.Lett.* **71**, 500(1993).

47. F. Abe, *et al.* (CDF Collaboration) "Measurement of Jet Multiplicity in W Events Produced in $p\bar{p}$ Collisions at $\sqrt{(}S) = 1.8$ TeV" *Phys.Rev.Lett.* **70**, 4042(1993).

48. F. Abe, *et al.* (CDF Collaboration) "The Center-of-Mass Angular Distribution of Prompt Photons Produced in $p\bar{p}$ Collisions at $\sqrt{(}S) = 1.8$ TeV" *Phys.Rev.Lett.* **71**, 679(1993).

49. F. Abe, *et al.* (CDF Collaboration) "Measurement of the Dijet Mass Distribution in $p\bar{p}$ Collisions at $\sqrt{(}S) = 1.8$ TeV" *Phys.Rev.Lett.* **70**, 4042(1993).

50. F. Abe, *et al.* (CDF Collaboration) "Measurement of the Dijet Mass Distribution in $p\bar{p}$ Collisions at $\sqrt{(}S) = 1.8$ TeV" *Phys.Rev.D* **48**, 998(1993).

51. F. Abe, *et al.* (CDF Collaboration) "A Prompt Photon Cross-Section Measurement in $p\bar{p}$ Collisions Aat $\sqrt{(}S) = 1.8$ TeV" *Phys.Rev.D* **48**, 2998(1993).

52. F. Abe, *et al.* (CDF Collaboration) "Measurement of the Cross-Section for Production of Two Isolated Prompt Photons in $p\bar{p}$ Collisions at $\sqrt{(}S)$=1.8 TeV " *Phys.Rev.Lett.* **70**, 2232(1993).

53. F. Abe, *et al.* (CDF Collaboration) "Measurement of Drell-Yan Electron and Muon Pair Differential Cross-Sections in $p\bar{p}$ Collisions at $\sqrt{S}$=1.8 TeV " *Phys.Rev.D* **49**, 1(1994).

54. F. Abe, *et al.* (CDF Collaboration) "Measurement of the Average Lifetime of B Hadrons Produced in $p\bar{p}$ Collisions at $\sqrt{S}$=1.8 TeV " *Phys.Rev.Lett.* **71**, 3421(1993).

55. F. Abe, *et al.* (CDF Collaboration) "Search for Quark Compositeness, Axigluons and Heavy Particles Using the Dijet Invariant Mass Spectrum Observed in $p\bar{p}$ Collisions " *Phys.Rev.Lett.* **71**, 2542(1993).

56. F. Abe, *et al.* (CDF Collaboration) "Search for Excited Quarks in $p\bar{p}$ Collisions at $\sqrt{S}$=1.8 TeV " *Phys.Rev.Lett.* **72**, 3004(1994).

57. F. Abe, *et al.* (CDF Collaboration) "A Search for the Top Quark Decaying to Charged Higgs in $p\bar{p}$ Collisions at $\sqrt{S}$=1.8 TeV " *Phys.Rev.Lett.* **72**, 1977(1994).

58. F. Abe, *et al.* (CDF Collaboration) "Measurement of the B^+ and B^0 Meson Lifetimes " *Phys.Rev.Lett.* **72**, 3456(1994).

59. F. Abe, *et al.* (CDF Collaboration) Measurement of the B Meson and B Quark Cross Sections at $\sqrt{s} = 1.8\ TeV$ Using the Exclusive Decay $B0 \to J/\chi K^*0(892)$. Phys. Rev.**D50**, 4252 (1994).

60. F. Abe, *et al.* (CDF Collaboration) A Precision Measurement of the Prompt Photon Cross Section in P Anti-P Collisions at $\sqrt{s} = 1.8\ TeV$. Phys. Rev. Lett. **73**, 2662 (1994).

61. F. Abe, *et al.* (CDF Collaboration) Evidence for Color Coherence in $p\bar{p}$ Collisions at $\sqrt{s} = 1.8\ TeV$. Phys. Rev. **D50**, 5562 (1994).

62. F. Abe, *et al.* (CDF Collaboration) W Boson + Jet Angular Distribution in $p\bar{p}$ Collisions at $\sqrt{s} = 1.8\ TeV$. Phys. Rev. Lett. **73**, 2296 (1994).

63. F. Abe, *et al.* (CDF Collaboration) Measurement of the Ratio $\sigma B(W \to e\nu)/\sigma\ B(Z^\circ \to e^+e^-)$ in $p\bar{p}$ Collisions at $\sqrt{s} = 1.8\ TeV$. Phys. Rev. Lett. **73**, 220 (1994).

64. F. Abe, *et al.* (CDF Collaboration) Evidence for Top Quark Production in $\bar{p}p$ Collisions at $\sqrt{s} = 1.8\ TeV$. Phys. Rev. Lett. **73**, 225 (1994).

65. F. Abe, *et al.* (CDF Collaboration) Evidence for Top Quark Production in $\bar{p}p$ Collisions at $\sqrt{s} = 1.8\ TeV$. Phys. Rev. **D50**, 2966 (1994).

66. F. Abe, *et al.* (CDF Collaboration) Measurement of the B^+ and B° Lifetimes. Phys. Rev. Lett. **72**, 3456 (1994).

67. F. Abe, *et al.* (CDF Collaboration) Measurement of Correlated $\mu - \bar{b}$ jet Cross Sections in $p\bar{p}$ Collisions at $\sqrt{s} = 1.8\ TeV$. Phys. Rev. **D53**, 1051 (1996).

68. F. Abe, *et al.* (CDF Collaboration) Υ Production in $p\bar{p}$ Collisions at $\sqrt{s} = 1.8\ TeV$. Phys. Rev. Lett. **75**, 4358 (1995).

69. F. Abe, *et al.* (CDF Collaboration) Measurement of the Polarization in the Decays $B(d) \to J/\psi K^*0$ and $B(s) \to J/\psi\phi$. Phys. Rev. Lett. **75**, 3068 (1995).

70. F. Abe, *et al.* (CDF Collaboration) A Measurement of the Ratio $\sigma x B(p\bar{p} \to W \to e\nu)/\sigma x B(p\bar{p} \to Z^\circ \to e^+e^-)$ in $p\bar{p}$ Collisions at $\sqrt{s} = 1800$ GeV. Phys. Rev. **D52**, 2624 (1995).

71. F. Abe, *et al.* (CDF Collaboration) A Search for Second Generation Leptoquarks in $p\bar{p}$ Collisions at $\sqrt{s} = 1.8\ TeV$. Phys. Rev. Lett. **75**, 1012 (1995).

72. F. Abe, *et al.* (CDF Collaboration) Measurement of the B Meson Differential Cross-Section, $d\sigma/dp_T$, in $p\bar{p}$ Collisions at $\sqrt{s} = 1.8\ TeV$. Phys. Rev. Lett. **75**, 1451 (1995).

73. F. Abe, *et al.* (CDF Collaboration) Properties of High Mass Multi-Jet Events in the Fermilab Proton-Antiproton Collider. Phys. Rev. Lett. **75**, 608 (1995).

74. F. Abe, *et al.* (CDF Collaboration) Measurement of the W Boson Mass. Phys. Rev. lett. **75**, 11 (1995).

75. F. Abe, *et al.* (CDF Collaboration) Measurement of the W Boson Mass. Phys. Rev. **D52**, 4784 (1995).

76. F. Abe, *et al.* (CDF Collaboration) Limits on WWZ and $WW\ \gamma$ Couplings From WW and W^+Z Production in $p\bar{p}$ Collisions at $\sqrt{s} = 1.8\ TeV$. Phys. Rev. Lett. **75**, 1017 (1995).

77. F. Abe, *et al.* (CDF Collaboration) Measurement of the B(s) Meson Lifetime. Phys. Rev. Lett. **74**, 4988 (1995).

78. F. Abe, *et al.* (CDF Collaboration) Search for New Particles Decaying to Dijets in $p\bar{p}$ Collisions at $\sqrt{s} = 1.8\ TeV$. Phys. Rev. Lett. **74**, 3538 (1995).

79. F. Abe, *et al.* (CDF Collaboration) Search for Charged Bosons Heavier than the W in $p\bar{p}$ Collisions at $\sqrt{s} = 1800\ GeV$. Phys. Rev. Lett. **74**, 2900 (1995).

80. F. Abe, *et al.* (CDF Collaboration) Kinematic Evidence for Top Quark Pair Production in W + Multi-Jet Events in $p\bar{p}$ Collisions at $\sqrt{s} = 1.8\ TeV$. Phys. Rev. **D51**, 4623 (1995).

81. F. Abe, *et al.* (CDF Collaboration) Limits on Z-Photon Couplings from $p\bar{p}$ Interactions at $\sqrt{s} = 1.8\ TeV$. Phys. Rev. Lett. **74**, 1941 (1995).

82. F. Abe, *et al.* (CDF Collaboration) The Charge Asymmetry in W Boson Decays Produced in $p\bar{p}$ Collisions at $\sqrt{s} = 1.8\ TeV$. Phys. Rev. Lett. **74**, 850 (1995).

83. F. Abe, *et al.* (CDF Collaboration) A Direct Measurement of the W Boson Width Γ (W). Phys. Rev. Lett. **74**, 341 (1995).

84. F. Abe, *et al.* (CDF Collaboration) Measurement of W-photon Couplings with CDF in $p\bar{p}$ Collisions at $\sqrt{s} = 1.8\ TeV$. Phys. Rev. Lett. **74**, 1936 (1995).

85. F. Abe, *et al.* (CDF Collaboration) Search for Radiative Decays of Neutralinos in Proton-Antiproton Collisions at $\sqrt{s} = 1.8\ TeV$. Phys. Rev. Lett. **75**, 613 (1995).

86. F. Abe, *et al.* (CDF Collaboration) Observation of Rapidity Gaps in $p\bar{p}$ Collisions at 1.8 TeV. Phys. Rev. Lett. **74**, 855 (1995).

87. F. Abe, *et al.* (CDF Collaboration) Search for New Gauge Bosons Decaying into Dielectrons in $\bar{p}p$ Collisions at $\sqrt{s} = 1.8\ TeV$. Phys. Rev. **D51**, 949 (1995).

88. "Search for High Mass Top Quark Production in $\overline{p}$-p Collisions at $\sqrt{s}$ = 1.8 TeV", S. Abachi *et al.*, Phys. Rev. Lett. **74**, 2422 (1995); Fermilab-Pub-94/354-E.

89. "Observation of the Top Quark", S. Abachi *et al.*, Phys Rev. Lett. **74**, 2632 (1995); Fermilab-Pub-95/028-E.

90. "Inclusive μ and b-Quark Production Cross Sections in $p\bar{p}$ Collisions at $\sqrt{s} = 1.8$ TeV", S. Abachi *et al.*, Phys. Rev. Lett. **74**, 3548 (1995); Fermilab-Pub-94/409-E.

91. "Search for Squarks and Gluinos in $\overline{p}$-p Collisions at at $\sqrt{s} = 1.8$ TeV", S. Abachi *et al.*, Phys. Rev. Lett. **75**, 618 (1995); Fermilab-Pub-95/057-E.

92. "Search for W Boson Pair Production in $\overline{p}$-p Collisions at at $\sqrt{s} = 1.8$ TeV", S. Abachi *et al.*, Phys. Rev. Lett. **75**, 1023 (1995); Fermilab-Pub-95/044-E.

93. "Limits on the Anomalous $ZZ\gamma$ and $Z\gamma\gamma$ Couplings in $\overline{p}$-p Collisions at $\sqrt{s} = 1.8$ TeV", S. Abachi *et al.*, Phys. Rev. Lett. **75**, 1028 (1995); Fermilab-Pub-95/042-E.

94. "Measurement of the $WW\gamma$ Gauge Boson Coupling in $\overline{p}$-p Collisions at $\sqrt{s} = 1.8$ TeV", S. Abachi *et al.*, Phys. Rev. Lett. **75**, 1034 (1995); Fermilab-Pub-95/101-E.

95. "W and Z Boson Production in $\overline{p}$-p Collisions at $\sqrt{s} = 1.8$ TeV", S. Abachi *et al.*, Phys. Rev. Lett. **75**, 1456 (1995); Fermilab-Pub-95/130-E.

96. "A Study of the Strong Coupling Constant Using W + Jets Processes", S. Abachi *et al.*, Phys. Rev. Lett. **75**, 3226 (1995); Fermilab-Pub-95/085-E.

97. "Top Quark Search with the DØ 1992 – 93 Data Sample", S. Abachi *et al.*, Phys. Rev. D**52**, 4877 (1995); Fermilab-Pub-95/020-E.

98. "Transverse Energy Distributions within Jets in $\overline{p}$-p Collisions at 1.8 TeV", S. Abachi *et al.*, Phys. Lett. B **357**, 500 (1995); Fermilab-Pub-95/203-E.

99. "Search for Heavy W Bosons in 1.8 TeV $\overline{p}$-p Collisions", S. Abachi *et al.*, Phys. Lett. B **358**, 405 (1995); Fermilab-Pub-95/283-E.

100. "Second Generation Leptoquark Search in $\overline{p}$-p Collisions at 1.8 TeV", S. Abachi *et al.*, Phys. Rev. Lett. **75**, 3618 (1995); Fermilab-Pub-95/185-E.

101. "Studies of Topological Distributions of Inclusive Three- and Four-Jet Events in $\overline{p}$-p Collisions at $\sqrt{s}$= 1800 GeV with the DØ Detector", S. Abachi *et al.*, Phys. Rev. D **53**, 6000 (1996); Fermilab-Pub-95/296-E.

102. "Jet Production via Strongly-Interacting Color-Singlet Exchange in $\overline{p}$-p Collisons" S. Abachi *et al.*, Phys. Rev. Lett. **76**, 734 (1996); Fermilab-Pub-95/302-E.

103. "Search for $\widetilde{W_1}\widetilde{Z_2}$ via Trilepton Final States in $\overline{p}$-p Collisions at $\sqrt{s} = 1.8$ TeV", S. Abachi *et al.*, Phys. Rev. Lett. **76**, 2228 (1996); Fermilab-Pub-95/385-E.

104. "Search for Right-Handed W Bosons and Heavy W$'$ in $\overline{p}$-p Collisions at $\sqrt{s} = 1.8$ TeV", S. Abachi *et al.*, Phys. Rev. Lett. **76**, 3271 (1996); Fermilab-Pub-95/412-E.

105. "Search for Light Top Squarks in $\overline{p}$-p Collisions at 1.8 TeV", S. Abachi *et al.*, Phys. Rev. Lett. **76**, 2222 (1996); Fermilab-Pub-95/380-E.

106. "J/Ψ Production in $\overline{p}$-p Collisions at $\sqrt{s} = 1.8$ TeV", S. Abachi *et al.*, Phys. Lett. B **370**, 239 (1996); Fermilab-Pub-96/003-E.

107. "The Azimuthal Decorrelation of Jets Widely Separated in Rapidity", S. Abachi *et al.*, Phys. Rev. Lett. **77**, 595 (1996); Fermilab-Pub-96/038-E.

108. "Search for Anomalous WW and WZ Production in $\overline{p}$-p Collisions at $\sqrt{s} = 1.8$ TeV", S. Abachi *et al.*, Phys. Rev. Lett. **77**, 3303 (1996); Fermilab-Pub-96/115-E.

109. "Measurement of the W Boson Mass", S. Abachi *et al.*, Phys. Rev. Lett. **77**, 3309 (1996); Fermilab-Pub-96/177-E.

110. "Search for Additional Neutral Gauge Bosons", S. Abachi *et al.*, Phys. Lett. B **385**, 471 (1996); Fermilab-Pub-96/187-E.

111. "The Isolated Photon Cross Section in the Central and Forward Rapidity Region in $\overline{p}$-p Collisions at $\sqrt{s} = 1.8$ TeV", S. Abachi *et al.*, Phys. Rev. Lett. **77**, 5011 (1996); Fermilab-Pub-96/072-E.

112. "Limits on Anomalous $WW\gamma$ Couplings from $\overline{p}\rightarrow W\gamma + X$ Events at $\sqrt{s} = 1.8$ TeV", S. Abachi *et al.*, Phys. Rev. Lett. **78**, 3634 (1997); Fermilab-Pub-96/434-E.

113. "Search for a Fourth Generation Charge -1/3 Quark via Flavor Changing Neutral Current Decay", S. Abachi *et al.*, Phys. Rev. Lett. **78**, 3818 (1997); Fermilab-Pub-96/430-E.

114. "Search for Diphoton Events with Large Missing Transverse Energy in $\overline{p}$-p Collisions at $\sqrt{s} = 1.8$ TeV", S. Abachi *et al.*, Phys. Rev. Lett. **78**, 2070 (1997); Fermilab-Pub-96/446-E.

115. "Search for Top Squark Pair Production in the Dielectron Channel", S. Abachi *et al.*, Phys. Rev. D **57**, 589 (1998); Fermilab-Pub-96/449-E.

116. "Study of the $ZZ\gamma$ and $Z\gamma\gamma$ Couplings in $Z\gamma \rightarrow \nu\nu\gamma$ Production", S. Abachi *et al.*, Phys. Rev. Lett. **78**, 3640 (1997); Fermilab-Pub-97/047-E; hep-ex/9702011.

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2.d - Book Reviews, Other Articles, and Note

1. S. Eno, Review of "Introduction to High Energy Physics", by D.H. Perkins, Physics Today, June, 2001, pg 60.

2.e. Talks, Abstracts, and Other Professional Papers Presented

2.e.i. Invited Talks

Conferences and Workshops

1. S. Eno, "Updated Measurements of the W mass and Width from the Tevatron", *International Conference on High Energy Physics* , Amsterdam, Netherlands, (2002)

2. S. Eno, "Measurements of the Production and Decay Properties of Gauge Bosons From the Tevatron", *Results and Perspectives in Particle Physics*, LaThuile, Aosta Valley, Italy, (1999)

3. S. Eno, "Using W's to Measure Luminosity in Run II", *Workshop on Electroweak Studies in Run II*, Fermi National Accelerator Laboratory, Batavia, Illinois, (1999)

4. S. Eno, "The DØ and CDF Run II Detectors", The Fermilab Run II Higgs and SUSY Workshop (1998).

5. S. Eno, "Searches for New Phenomena at the Tevatron", Spring Meeting of the American Physical Society, Columbus, Ohio (1998).

6. S. Eno, "The Physics of the Very Large Hadron Collider", Spring Meeting of the American Physical Society, Columbus, Ohio (1998).

7. S. Eno, "Search for New Phenomena at DØ ", *Beyond the Desert 1997: Accelerator and Non-Accelerator Approaches*, Tegernsee, Germany (1997).

8. S. Eno, "Non-SUSY Particle Searches at DØ ", The 28^{th} International Conference on High Energy Physics, Warsaw, Poland (1996).

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11. S. Eno, "The DØ Upgrade Trigger", The 8^{th} meeting of the Division of Particles and Fields of the American Physical Society, Albuquerque, New Mexico (1994).

12. S. Eno, "Results from CDF", 1992 Aspen Winter Physics Conference on Elementary Particle Physics (1992).

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Colloquia.

- University of Maryland, "Searching for New Particles in High Energy Proton-Antiproton Collisions", 1998
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- Max Planck Institute, Munich, Germany, "Search for New Phenomena at DØ ", 1997
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- Deutsches Elektronen Synchrotron (DESY), "Search for New Phenomena at DØ ", Hamburg, Germany, 1997
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Other.

- o *Foundations and Frontiers* , a series of talks on physics for graduate students at the University of Maryland, " Studying the W Boson: How and Why" 1999
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- o New Faculty Workshop of the Association of American Physics Teachers (AAPT), "On the Importance of Finding a Teaching Mentor", Nov 1997.
- o "Physics with the DØ Detector", Maryland Chapter of the Society of Physics Students (1995).

2.e.iii. Unrefereed Conference Proceedings

1. S. Eno, "Updated Measurements of the W Mass and Width from the Tevatron", Proceedings of the "International Conference on High Energy Physics" conference in Amsterdam, Netherlands, Elsevier Science (2003).
2. S. Eno, "Measurements of the Production and Decay Properties of Gauge Bosons from the Tevatron", Proceedings of the "Results and Perspectives in Particle Physics" conference in La Thuile, Italy, M. Greco, editor, INFN Laboratori Nazionali di Frascati SIS - Ufficio Pubblicazioni (1999)
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4. S. Eno, "Search for New Phenomena at DØ ", in Proceedings of *Beyond the Desert 1997: Accelerator and Non-Accelerator Approaches*, H.V. Klapdor-Kleingrothaus and H. Pas, editors, Institute of PHysics Publishing, Bristol and Philadelphia (1997).
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9. S. Eno, "Recent Results from the AMY Experiment", in Proceedings of the Fourth Lake Louise Winter Institute, "Frontiers in Physics - From Colliders to Cosmology", A. Astbury, B. A. Campbell, W. Israel, A. N. Kamal, and F. C. Khanna, Editors, World Scientific, Singapore (1989).

10. S. Eno, "A Search for New Heavy Quarks Using Hadronic Events Containing Leptons", Proceedings of the 24^{th} international conference on High Energy Physics, Munich, (1988).

2.i Contracts, Grants and Proposals

1. Co-Investigator (one of 6 faculty) in the DOE Contract entitled, "High Energy Accelerator and Colliding Beam User Group", 1988-present, approximately $1,500,000/year, 1988-present.

2. Principal Investigator in the DOE Contract entitled, "Physics with the DØ Detector and the DØ Upgrade at the University of Maryland", $75,000/year, 1995-1999

3. Principal Investigator on Grant from Department of Energy to Study and Develop a "Prototype for a Muon Scintillator Trigger Counter for the DØ Experiment ", $29,250, 1996.

2.j Fellowships, Prizes, and Awards

- Outstanding Junior Investigator, Department of Energy, 1995 - 1999
- Rush Rhees Fellowship, University of Rochester, Sep. 1985 - June 1987.
- Salutatorian, Gettysburg College, 1984.
- Phi Beta Kappa, junior standing, Gettysburg College.

2.k Editorships, Editorial Boards, and Reviewing Activities for Journals and Other learned Publications

Referee for Physical Review Letters and Physical Review D.

- 1999: 1 PRL
- 2002: 2 PRLs

3 Teaching and Advising

3.a Courses Taught

3.a.i *General*

- Physics 107 (appr. 10 students) Laboratory on Light and Optics for Liberal Arts Students; Spring 1994
- Physics 107 (appr. 150 students) Laboratory on Light and Optics for Liberal Arts Students; Fall 1994
- Physics 107 (appr. 30 students) Laboratory on Light and Optics for Liberal Arts Students; Spring 1995
- Physics 420 (appr. 25 students) Quantum Mechanics for Engineering majors; Fall 1995
- Physics 161 (appr. 30 students) Mechanics for Engineering majors; Spring 1996
- Physics 117A (appr. 30 students) Physics for Elementary Education Majors; Fall 1996
- Physics 117A (appr. 30 students) Physics for Elementary Education Majors; Spring 1997
- Physics 117A (appr. 30 students) Physics for Elementary Education Majors; Fall 1997
- Physics 107 (appr. 25 students) Laboratory on Light and Optics for Liberal Arts Students; Spring 1998
- Physics 117A (appr. 30 students) Physics for Elementary Education Majors; Fall 1998
- Physics 174 (17 students) Physics Laboratory Introduction Spring 1999
- Physics 174 (29 students) Physics Laboratory Introduction Fall 1999
- Physics 115 (30 students) Physics for Elementary Education Majors; Spring 2001
- Physics 115 (25 students) Physics for Elementary Education Majors; Spring 2000
- Physics 115 (30 students) Physics for Elementary Education Majors; Spring 2002
- Physics 115 (30 students) Physics for Elementary Education Majors; Fall 2002

3.a.iv *Independent Study*

- PHYS 499A, independent study in experimental particle physics (Spring, 1995)
- I have employed the following students in my experimental particle physics lab, Juan Delgado, Shawn Kwang, Tommy Landers, Kevin Scaldeferri, and Anil Jayanna.

3.c Manuals, Notes and Other Contributions to Teaching

Revised Physics 107 lab manual, 1994 and 1995.

created new lab for Physics 174, 1999 revised 174 lab manual 1999

updated lab manual for Physics 115 for new computer system, 2001 revised lab manual for Physics 115 in general, 2001 wrote instructors manual for lab manual for Physics 115, 2001

3.d Teaching Awards and Other Special Recognition

1. Honorable mention citation for teaching skills, University of Rochester, 1985.

3.e Advising: Other Than Research Direction

3.e.i *Undergraduate*

- Faculty Advisor for 4 undergraduate physics students per year, 1996-present.
- Faculty Advisor of approximately 3 Letters and Sciences students per year as part of the "Advise-5" program, 1994-1999

3.e.ii *Graduate*

Faculty Advisor for incoming graduate students, Fall 1998 (4 students) and Fall 2000 (3 students).

3.f Advising: Research Direction

3.f.ii *Masters*

- Jay Han MS 1995.
- Emmanuel Gouveia MS 1998.

3.f.iii *Doctoral*

1. Gervasio Gomez, Ph.D. 1999. University of Maryland. Indirect Measurement of the W Boson's Width.
2. Junjie Zhu, Ph.D. joint with N. Hadley
3. Ming Yan, Ph.D. joint with N. Hadley and A. Baden
4. Lei Wang, current Ph.D. student
5. Matt Wetstein, current Ph.D. student

3.f.iv *PostDoctoral*

1. Joey Thompson (1993-1999)
2. Greg Graham (1999-2000)
3. Marco Verzocchi (2001-present)
4. Isa Dumanoglu (2002)
5. Salavat Abdullin (2001-present)

3.g Extention Activities

Reviewed research papers for 1995 Maryland junior science and humanities symposium.

4 Service

4.a Professional

4.a.i *Offices and Committee Membership*

Member of American Physical Society and Div. of Particles and Fields.

4.a.ii *Unpaid Reviewing Activities for Agencies*

Member of Review Panel for NSF/DOE for "Quarknet", an outreach program for high school teachers.

Reviewer for three DOE "Outstanding Junior Investigator" applications, 2002.

Reviewer for a DOE grant, 2002.

4.a.iv *Other Non-University Committees, Commissions, Panels, etc.*

Co-convener of the W mass sub-group, CDF collaboration (1992). This group contained approximately 10 members.

Co-convener of the Electroweak studies group, CDF collaboration (1993). This group contained approximately 50 members.

International Advisory Committee, International Symposium on Vector Boson Self-Interactions, UCLA (1995)

Member of the Organizing Committee of SUSY conference at Maryland, 1996.

Co-convener of the Exotics subgroup of the Very Large Hadron Collider Workshop, Fermilab (1997)

Member of DØ software review committee, (1997).

Co-convener of the New Phenomena group, DØ collaboration (1996-1998). This group contained approximately 50 members.

Member of DØ Authorship Committee (1993-2001).

Representative to the DØ Institutional Board, (1997-present).

Convener of the W and Z cross sections group, DØ collaboration (1998-1999). This group contains approximately 10 members.

Fermilab Users Executive Committee, 1998 - 2000. Elected Committee that represents the users of the Fermilab accelerator complex.

Member of the Dzero trigger review panel (1999)

Convener of the Jets and Missing Et group, CMS Collaboration (1999-2002) This group is one of five groups responsible for the physics output of the CMS collaboration. There are 1500 members of the CMS collaboration.

Member of the American computing and software review board for the CMS collaboration (1999-2001)

Head of the Dzero Collaboration Fast Monte Carlo simulation group, (Dec 2000-present)

Head of the Dzero Collaboration simulation group (Mar 2003 - present).

Soring committee for APS HEP abstractions, S02

Head of Dzero Collaboration Video Task Force (winter 2002).

4.a.vi *Paid Consultancies*

High Energy Theory Faculty Search Committee, Michigan State University; 1994

4.b University Service

4.b.i *Physics Department*

- laboratory committee, S99, F99, S00
- graded qualifier problem, Jan 99
- thesis defense committee for Mel Sabela, 1999
- graded qualifier problem, winter 1998
- Graduate Committee; 1997 - 1999

- I attend the pizza lunches for women physics students (1994-2001)
- Expanded Qualifier Committee; 1996-1998,2001
- Salary Committee; 1995 and 1996
- Physics Council; 1995 - 1996
- Physics Council; 1998
- Physics 161 Text Book Review; 1996
- Qualifier Oral Exams; 1994, 1996, 1998, 2000
- Wrote Qualifier Problem; 1995, 2001
- Ph.D. Thesis Committee; 1995, 1997, 1998
- on teaching review committee for Michael Fuhrer (1 of 2 members), 2001
- on committee to award the "George Snow" award (1 of 3 members), 2001
- recruitment phone calls to 7 prospective woman Undergrad's, 2001
- expanded qualifier committee, spring 2002
- Appointments, Promotions, and Tenure committee, May 2002-present
- lead Maryland HEP group "Quarknet" project. Quarknet is a project to involve high school teachers in HEP research. We had two teachers during the summer of 2002. I personally supervised one, and also designed and arranged speakers for a weekly lecture series. During Fall 2002, I co-organized two workshops for high school teachers.

4.b.ii *College and Divisional*

- Department of Education Accrediation visit (April 13, 1999)
- College Senate F99
- Dean's Teaching Award Committee; 1996

4.b.iii *Campus and University*

- Letters and Sciences "Advise-5" Advisor; 1994 to 1999
- Panelist for "The Digital Village"; 1995

- College Park Senate Executive Committee; 2000
- group leader for the fall new faculty orientation; fall 2000
- Human Relations Committee of Senate; fall 2000, Spring 2001
- Senate Executive Committee, F00 and S01
- Senate Member, F99-F01
- President's Commission on Woman's Issues, F01-present
- part of a Senate Grievence Committee, F01
- Senate nominations committee, F02

This Curriculum vitae is current and accurate:

Sarah Eno
Jan 1, 2003.