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Education

Ph.D. in physics from Univ. of Cal., Riverside, 1984
Specialization: Experimental High Energy Physics
Dissertation: "Charm Production at the CERN Proton-Antiproton Collider"
Advisor: Anne Kernan
M.S. in physics from Univ. of Cal., Riverside, 1981
B.A. in physics from Univ. of Cal., Irvine, 1978

Experience

July 2012 – June 2018: Department Head, Physics, University of Oregon
September 2000 – present: Professor, University of Oregon
September 1994 – 2000: Associate Professor, University of Oregon
September 1989 – 1994: Assistant Professor, University of Oregon
Major research projects while at U Oregon:

1989-2005: SLD (SLAC) Collaboration, the NuTeV (FNAL) Collaboration, the BaBar (SLAC) Collaboration, SSC and ILC R&D work;
2005-present: research focused on gravitational-wave detection and astrophysics with the LIGO Scientific Collaboration.

May 1986 – Sept 1989: Post-doctoral Research Associate, University of Michigan – SLD experiment, SLAC

July 1984 – May 1986: Research Associate, University of California, Riverside – UA1 experiment, CERN

1980 – 1984: Research Assistant (Graduate Student), University of California, Riverside – UA1 experiment

Honors/Awards:

SSC Fellowship, March 1993.

Commissioner of SLD at SLAC, 1995-66 (on leave from UO).

Elected Chair SLAC Users Organization 1998-2000.

UO Research Innovation Award, 2009.

Member, Executive Committee, LIGO Scientific Collaboration, 2010-13, 2019-22.

As co-discoverer of gravitational waves, shared the following with my collaborators: Milner Breakthrough Prize in Fundamental Physics (2016), Gruber Cosmology Prize (2016), Bruno Rossi Prize (2017), Royal Astronomical Society Group Achievement Award (2017).

UO Fund for Faculty Excellence Award, 2017-18.

Fellow, American Physical Society (DGrav), 2022.

Journal Publications

1. "Some Observations of the First Events Seen at the CERN Proton – Antiproton Collider", [UA1 Collab.], Phys. Lett. 107B (1980) 320
2. "Transverse Momentum Spectrum for Charged Particles Produced at the CERN Proton – Antiproton Collider", [UA1 Collab.], Phys. Lett. 118B (1982) 167.
3. "First Observation of Correlations Between High Transverse Momentum Charged Particles in Events from the CERN Proton – Antiproton Collider", [UA1 Collab.], Phys. Lett. 118B (1982) 173.
4. "Small Angle Elastic Scattering at the CERN Proton – Antiproton Collider", [UA1 Collab.], Phys. Lett. 121B (1983) 77.
5. "Search for Centauro like Events at the CERN Proton – Antiproton Collider", [UA1 Collab.], Phys. Lett. 122B (1983) 189.
6. "Charged Particle Multiplicity Distributions in Proton – Antiproton Collisions at 540 GeV Center of Mass Energy", [UA1 Collab.], Phys. Lett. 123B (1983) 108.
7. "Observation of Jets in High Transverse Energy Events at the CERN Proton – Antiproton Collider", [UA1 Collab.], Phys. Lett. 123B (1983) 103.
8. "Experimental Observation of Isolated Large Transverse Energy Electrons with Associated Missing Energy at $\sqrt{s} = 540$ GeV", [UA1 Collab.], Phys. Lett. 122B (1983) 103.
9. "Experimental Observation of Lepton Pairs of Invariant Mass Around 95 GeV/ c^2 at the CERN SPS Collider", [UA1 Collab.], Phys. Lett. 126B (1983) 398.
10. "Elastic and Total Cross Section Measurement at the CERN Proton – Antiproton Collider", [UA1 Collab.] Phys. Lett. 128B (1983) 336.
11. "Further Evidence for Charged Intermediate Vector Bosons at the SPS Collider", [UA1 Collab.] Phys. Lett. 129B (1983) 273.
12. "Hadronic Jet Production at the CERN Proton – Antiproton Collider", [UA1 Collab.], Phys. Lett. 132B (1983) 214.
13. "Jet Fragmentation into Charged Particles at the CERN Proton – Antiproton Collider", [UA1 Collab.] Phys. Lett. 132B (1983) 223.
14. "Observation of the Muonic Decay of the Charged Intermediate Vector Boson", [UA1 Collab.], Phys. Lett. 134B (1984) 469.
15. "Search for Massive $e\nu\gamma$ and $\mu\nu\gamma$ Final States at the CERN Super Proton Synchrotron Collider", [UA1 Collab.], Phys. Lett. 135B (1984) 250.
16. "Angular Distributions and Structure Functions from Two-jet Events at the CERN SPS $p\bar{p}$ Collider", [UA1 Collab.], Phys. Lett. 136B (1984) 294.
17. "Experimental Observation of Events with Large Missing Transverse Energy Accompanied by a Jet or a Photon in $p\bar{p}$ Collisions at $\sqrt{s} = 540$ GeV", [UA1 Collab.] Phys. Lett. 139B (1984) 115.

18. “ $D^{*\pm}$ Production in Jets at the CERN SPS Collider”, [UA1 Collab.], Phys. Lett. 147B (1984) 222.
19. “Observation of Muonic Z^0 Decay at the $p\bar{p}$ Collider”, [UA1 Collab.], Phys. Lett. 147B (1984) 241.
20. “Associated Production of an Isolated, Large-transverse-momentum Lepton (electron or muon), and Two Jets at the CERN $p\bar{p}$ Collider”, [UA1 Collab.], Phys. Lett. 147B (1984) 493.
21. “W Production Properties at the CERN SPS Collider”, [UA1 Collab.], Nuovo Cimento Letters 44 (1985) 1.
22. “Comparison of Three-jet and Two-jet Cross Sections in $p\bar{p}$ Collisions at the CERN SPS $p\bar{p}$ Collider”, [UA1 Collab.], Phys. Lett. 158B (1985) 494.
23. “Analysis of the Fragmentation Properties of Quark and Gluon Jets at the CERN SPS $p\bar{p}$ Collider”, [UA1 Collab.], Nucl. Phys. B276 (1986) 253.
24. “Angular Distributions for High-Mass Jet Pairs and a Limit on the Energy Scale of Compositeness for Quarks at the CERN $p\bar{p}$ Collider”, [UA1 Collab.], Phys. Lett. 177B (1986) 244.
25. “Recent Results on Intermediate Vector Boson Properties at the CERN Super Proton Synchrotron Collider”, [UA1 Collab.], Phys. Lett. 166B (1986) 484.
26. “A Microvertex Detector for Experiment UA1 at the CERN $Spp\bar{S}$ Collider”, L. Bassi, *et al.*, Nucl. Instr. Meth. A252 (1986) 387.
27. “Measurement of the Inclusive Jet Cross Section at the CERN $p\bar{p}$ Collider” [UA1 Collab.], Phys. Lett. 172B (1986) 463.
28. “Production of W’s with Large Transverse Momentum at the CERN Proton-Antiproton Collider”, [UA1 Collab.], Phys. Lett. 193B (1987) 389.
29. “Events with Large Missing Transverse Energy at the CERN Collider: I. $W \rightarrow \tau\nu$ Decay and Test of $\tau\text{-}\mu\text{-}e$ Universality at $Q^2 = m_W^2$ ”, [UA1 Collab.], Phys. Lett. 185B (1987) 233; Addendum-ibid **191B** (1987) 462.
30. “Events with Large Missing Transverse Energy at the CERN Collider: II. Search for the Decays of W^\pm into Heavy Leptons and of the Z^0 into Non-interacting Particles”, [UA1 Collab.], Phys. Lett. 185B (1987) 241; Addendum-ibid 191B (1987) 463; Erratum-ibid 197B (1987) 565.
31. “Events with Large Missing Transverse Energy at the CERN Collider: III. Mass Limits on Supersymmetric Particles”, [UA1 Collab.], Phys. Lett. 198B (1987) 261.
32. “Beauty Production at the CERN Proton-Antiproton Collider”, [UA1 Collab.], Phys. Lett. 186B (1987) 237.
33. “Search for $B^0\text{-}\bar{B}^0$ Oscillations at the CERN Proton – Antiproton Collider”, [UA1 Collab.], Phys. Lett. 186B (1987) 247; Erratum-ibid 197B (1987) 565.
34. “Intermediate Vector Boson Cross Sections at the CERN Super Proton Synchrotron Collider and the Number of Neutrino Types”, [UA1 Collab.], Phys. Lett. 198B (1987) 271.

35. "Analysis of the Highest Transverse Energy Events Seen in the UA1 Detector at the $S\bar{p}\bar{p}S$ Collider", [UA1 Collab.], *Z. Phys.* C36 (1987) 33.
36. "Measurement of the D^0 Lifetime from the Upgraded Mark II Detector at PEP", (Mark II Collab.) *Phys. Rev.* D36 (1987) 2850.
37. "Multihadronic Events at $E_{cm} = 29$ GeV and Predictions of QCD Models from $E_{cm} = 29$ GeV to $E_{cm} = 93$ GeV", (Mark II Collab.) *Phys. Rev.* D37 (1988) 1.
38. "Determination of α_s from Energy – Energy Correlations in e^+e^- Annihilation at 29 GeV", (Mark II Collab.), *Phys. Rev.* D37 (1988) 3091.
39. "Radiative Corrections to the Z^0 Resonance", J. Alexander, G. Bonvicini, P. Drell, and R.Frey, *Phys. Rev.* D37 (1988) 56.
40. "Heavy Flavor Resonances and QED Radiative Corrections", J. Alexander, G. Bonvicini, P. Drell, R.Frey, and V. Lüth, *Nucl. Phys.* B320 (1989) 45.
41. "A Monitor for Gamma Radiation at Zero Degrees from the SLC Collision Point", G. Bonvicini, R. Field, R. Frey, E. Gero, W. Koska, and A. Minten, *Nucl. Instr. Meth.* A277 (1989) 297.
42. "First Observation of Beamstrahlung", G. Bonvicini, C. Field, R. Frey, E. Gero, W. Koska, A. Minten, and N. Phinney, *Phys. Rev. Lett.* 62 (1989) 2381.
43. "The Mark II Detector for the SLC", (Mark II Collab.), *Nucl. Instr. and Methods* A281 (1989) 55.
44. "Initial Measurements of Z Boson Resonance Parameters in e^+e^- Annihilation", (Mark II Collab.), *Phys. Rev. Lett.* 63 (1989) 724.
45. "Searches for nonminimal Higgs bosons from a virtual Z decaying into a muon pair at the SLAC e^+e^- storage ring PEP", (Mark II Collab.), *Phys. Rev.* D40 (1989) 721.
46. "Search for B-Decay to Higgs Bosons for Higgs Boson Masses Between 50 and 210 Mev/c²", (Mark II Collab.), *Phys. Lett. B* (1989) 169.
47. "First Measurements of Hadronic Decays of the Z Boson", (Mark II Collab.), *Phys. Rev. Lett.* 63 (1989) 1558.
48. "Measurements of Z Boson Resonance Parameters in e^+e^- Annihilation", (Mark II Collab.), *Phys. Rev. Lett.* 63 (1989) 2173.
49. "Measurement of Z Decays into Lepton Pairs", (Mark II Collab.), *Phys. Rev. Lett.* 63 (1989) 2780.
50. "Searches for New Quarks and Leptons Produced in Z Boson Decay", (Mark II Collab.), *Phys. Rev. Lett.* 63 (1989) 2447.
51. "Studies Of Intermediate Vector Boson Production And Decay In UA1 at the Cern Proton - Anti-Proton Collider," [UA1 Collab.], *Z. Phys. C* 44 (1989) 15.

52. "Search for Long-lived Massive Neutrinos in Z Decays", (Mark II Collab.) Phys. Rev. Lett. 64 (1990) 1091.
53. "Determination of α_s from a Differential Jet Multiplicity Distribution in e^+e^- Collisions at $\sqrt{s}=29$ and 91 GeV", (Mark II Collab.), Phys. Rev. Lett. 64 (1990) 987.
54. "Measurement of the $b\bar{b}$ Fraction in Hadronic Z Decays", (Mark II Collab.), Phys. Rev. Lett. 64 (1990) 1211.
55. "Measurement of the B^0 -meson Lifetime", (Mark II Collab.), Phys. Rev. Lett. 64 (1990) 1095.
56. "Upper Limits on D^\pm and B^\pm Decays to Two Leptons plus π^\pm or K^\pm ", (Mark II Collab.), Phys. Rev. D41 (1990) 1384.
57. "Measurements of Charged Particle Inclusive Distributions in Hadronic Decays of the Z Boson", (Mark II Collab.), Phys. Rev. Lett. 64 (1990) 1334.
58. "Search for Non-minimal Neutral Higgs Bosons from Z Boson Decays", (Mark II Collab.), Phys. Rev. Lett. 64 (1990) 2881.
59. "A Search for Decays of the Z to Unstable Neutral Leptons with Mass Between 2.5 and 22 GeV/ c^2 ", (Mark II Collab.), Phys. Rev. D41 (1990) 3542.
60. "A Search for Doubly Charged Higgs Scalars in Z Decay", (Mark II Collab.), Phys. Rev. Lett. 64 (1990) 2877.
61. "A Reanalysis of $B^0-\bar{B}^0$ Mixing in e^+e^- Annihilation at 29 GeV", (Mark II Collab.), Phys. Lett. B240 (1990) 289.
62. "A Search for Pair Production of Heavy Stable Charged Particles in Z Decays", (Mark II Collab.), Phys. Rev. Lett. 64 (1990) 2980.
63. "Search for Supersymmetric Particles Produced in Z Boson Decay", (Mark II Collab.), Phys. Rev. Lett. 64 (1990) 2984.
64. "A Search for Elastic Non-diagonal Lepton Pair Production in e^+e^- Annihilation at $\sqrt{s} = 29$ GeV", (Mark II Collab.), Phys. Rev. Lett. 66 (1991) 1007.
65. "Measurement of the Total Hadronic Cross Section in e^+e^- Annihilation at $\sqrt{s} = 29$ GeV", (Mark II Collab.), Phys. Rev. D43 (1991) 34.
66. "Measurement of the $b\bar{b}$ Fraction in Hadronic Z^0 Decays with Precision Vertex Detectors", (Mark II Collab.), Phys. Rev. Lett. 67 (1991) 3347.
67. "First Results from the SLD Silicon Calorimeters", S.C. Berridge, *et al.*, IEEE Trans. Nucl. Sci. NS-39, (1992) 242.
68. "Measurement of the Charged Multiplicity of Events Containing Bottom Hadrons at $E_{CM} = 91$ GeV", (Mark II Collab.), Phys. Rev D46 (1992) 453.
69. "A Luminosity Monitor for the Mark II Detector at the SLC", G. Bonvicini, J. Chapman, R. Frey, S.J. Hong, J. Hylen, E. Gero, J.A.J. Mathews, M. Petradza, R. Thun, and H. Veltman, Nucl. Inst. and Meth. A317 (1992) 453.

70. "A Prototype Silicon Preradiator for the SSC", A. Arodzero, J. Brau, R. Frey, K. Furuno, H. Hwang, D. Mason, D. Strom, X. Yang, G. Bashindzhagyan, and R.A. Todd), IEEE Trans. Nucl. Sci. NS-40, (1993) 563.
71. "First Measurement of the Left-Right Cross Section Asymmetry in Z Boson Production by e^+e^- Collisions", [SLD Collab.], Phys. Rev. Lett. 70 (1993) 2515.
72. "A Measurement of α_s from Jet Rates at the Z^0 Resonance", [SLD Collab.], Phys. Rev. Lett. 71 (1993) 2528.
73. "Measurement of the Charged Multiplicity of $Z^0 \rightarrow b\bar{b}$ Events", [SLD Collab.], Phys. Rev. Lett. 72 (1994) 3145.
74. "Precise Measurement of the Left-Right Cross Section Asymmetry in Z Boson Production by e^+e^- Collisions", [SLD Collab.], Phys. Rev. Lett. 73 (1994) 25.
75. "Performance of a Longitudinally-Segmented CsI(Tl) Array Suitable for a Low or Medium Energy e^+e^- Storage Ring", R. Baggs,*et al.*, Nucl. Inst. and Meth. A344 (1994) 547.
76. "Measurement of α_s from Hadronic Event Observables at the Z^0 Resonance", [SLD Collab.], Phys. Rev. D51 (1995) 962.
77. "Observation of Target Electron Momentum Effects in Single-Arm Møller Polarimetry", M. Swartz, H.R. Band, F.J. Decker, P. Emma, M.J. Fero, R. Frey, R. King, A. Lath, T. Limberg, R. Prepost, P.C. Rowson, B.A. Schumm, M. Woods, M. Zolotorev, Nucl. Inst. and Meth. A363 (1995) 526.
78. "Polarized Bhabha Scattering and a Precision Measurement of the Electron Neutral Current Couplings", [SLD Collab.], Phys. Rev. Lett. 74 (1995) 2880.
79. "Measurement of α_s from Energy-Energy Correlations at the Z^0 ", [SLD Collab.], Phys. Rev. D50 (1994) 5580.
80. "Measurement of A_b from the Left-Right Forward-Backward Asymmetry of b -quark Production in Z^0 Decays Using a Momentum-weighted Track Charge Technique", [SLD Collab.], Phys. Rev. Lett. 74 (1995) 2890.
81. "Study of 18-cm Long Single Sided AC Coupled Silicon Microstrip Detectors", R.T. Kollipara, *et al.*, IEEE Trans. Nucl. Sci. 42 (1995) 92.
82. "A Search for Jet Handedness in Hadronic Z^0 Decays", [SLD Collab.], Phys. Rev. Lett. 74 (1995) 1512.
83. "Measurement of the Parity-Violation Parameters A_b and A_c from the Left-Right Forward-Backward Asymmetry of Leptons in Hadronic Events at the Z^0 Resonance", [SLD Collab.], Phys. Rev. Lett. 74 (1995) 2895.
84. "Measurement of the Average B Hadron Lifetime in Z^0 Decays Using Reconstructed Vertices", [SLD Collab.], Phys. Rev. Lett. 75 (1995) 3624.
85. "First Measurement of the T Odd Correlation Between the Z^0 Spin and the Three Jet Plane Orientation in Polarized Z^0 Decays to Three Jets", [SLD Collab.], Phys. Rev. Lett. 75 (1995) 4173.

86. “Measurement of the Tau Lifetime at SLD”, [SLD Collab.], Phys. Rev. D52 (1995) 4828.
87. “Measurements of R_b with Impact Parameters and Displaced Vertices”, [SLD Collab.], Phys. Rev. D53 (1996) 1023.
88. “Comparison of a New Calculation of Energy-energy Correlations with $e^+e^- \rightarrow$ Hadrons Data at the Z^0 Resonance”, [SLD Collab.], Phys. Rev. D52 (1995) 4240.
89. “Measurement of the Left-Right Forward-Backward Asymmetry for Charm Quarks with D^{*+} and D^+ Mesons”, [SLD Collab.], Phys. Rev. Lett. 75 (1995) 3609.
90. “A Test of the Flavor Independence of Strong Interactions”, [SLD Collab.], Phys. Rev. D53 (1996) 2271.
91. “Measurement of the Charged Multiplicities in b , c and Light Quark Events from Z^0 Decays”, [SLD Collab.], Phys. Lett. B386 (1996) 475.
92. “Factorial and Cumulant Moments in $e^+e^- \rightarrow$ Hadrons at the Z^0 Resonance”, [SLD Collab.], Phys. Lett B371 (1996) 149.
93. “First Study of Rapidity Gaps in e^+e^- Annihilation”, [SLD Collab.], Phys. Rev. Lett. 76 (1996) 4886.
94. “First Measurement of the Left-Right Charge Asymmetry in Hadronic Z Boson Decays and a New Determination of $\sin^2 \theta_{\text{eff}}$ ”, [SLD Collab.], Phys. Rev. Lett. 78 (1997) 17.
95. “An Improved Measurement of the Left-Right Z^0 Cross-Section Asymmetry”, [SLD Collab.], Phys. Rev. Lett. 78 (1997) 2075.
96. “A Study of the Orientation and Energy Partition of Three Jet Events in Hadronic Z^0 Decays”, [SLD Collab.], Phys. Rev. D55 (1997) 2533.
97. “Measurement of the B^+ and B^0 Lifetimes Using Topological Reconstruction of Inclusive and Semileptonic Decays”, [SLD Collab.], Phys. Rev. Lett. 79 (1997) 590.
98. “Design and Performance of the SLD Vertex Detector, a 307 MPixel Tracking System, (subset of SLD Collab.)”, Nucl. Instrum. Meth. A400 (1997) 287.
99. “Measurement of the B Hadron Energy Distribution in Z^0 Decays”, [SLD Collab.], Phys. Rev. D56 (1997) 5310.
100. “Direct Measurement of Leptonic Coupling Asymmetries with Polarized Zs”, [SLD Collab.], Phys. Rev. Lett. 79 (1997) 804.
101. “Measurement of Leading Particle Effects in Decays of Z^0 Bosons into Light Flavors”, [SLD Collab.], Phys. Rev. Lett. 78 (1997) 3442; Erratum-ibid. 79 (1997) 959.
102. “Measurement of the Tau Neutrino Helicity and the Michel Parameters in Polarized e^+e^- Collisions”, [SLD Collab.], Phys. Rev. Lett. 78 (1997) 4691.
103. “Performance of the New Vertex Detector at SLD”, N.B. Sinev *et al.*, IEEE Trans. Nucl. Sci. 44, (1997) 587.
104. “A Measurement of R_b Using a Vertex Mass Tag”, [SLD Collab.], Phys. Rev. Lett. 80 (1998) 660.

105. “A Direct Measurement of Parity Violation in the Coupling of Z^0 Bosons to b quarks using a Mass Tag and Momentum Weighted Track Charge”, [SLD Collab.], Phys. Rev. Lett. 81 (1998) 942.
106. “Measurement of Electron Beam Polarization from the Energy Asymmetry of Compton Scattered Photons”, R. Field, R. Frey, M. Woods, A. Arodzero, and J. Zhou, IEEE Trans. Nucl. Sci. 45 (1998) 670.
107. “Initial Impact Parameter Resolution of the New SLD Vertex Detector”, N.B. Sinev *et al.*, Nucl. Instrum. Meth. A409 (1998) 243.
108. “An Improved Test of the Flavor Independence of Strong Interactions”, [SLD Collab.], Phys. Rev. D59 (1999) 012002.
109. “Production of π^+ , K^+ , K^0 , K^{*0} , ϕ , p and Λ^0 in Hadronic Z^0 Decays”, [SLD Collab.], Phys. Rev. D59 (1999) 052001.
110. “Direct Measurement of A_b in Z^0 Decays using Charged Kaon Tagging”, [SLD Collab.], Phys. Rev. Lett. 83 (1999) 1902.
111. “Evidence for Diffractive Charm Production in $\nu_\mu Fe$ and $\bar{\nu}_\mu Fe$ Scattering at the Tevatron”, [NuTeV Collab.], Phys. Rev. D61 (2000) 092001.
112. “Precision Calibration of the NuTeV Calorimeter”, [NuTeV Collab.], Nucl. Instrum. Meth. A447 (2000) 377.
113. “Search for a $33.9 \text{ MeV}/c^2$ Neutral Particle in Pion Decay”, [NuTeV Collab.], Phys. Rev. Lett. 84 (2000) 4043.
114. “Search for Charmless Hadronic Decays of B Mesons with the SLD Detector”, [SLD Collab.], Phys. Rev. D62 (2000) 071101.
115. “Precise Measurement of the b -quark Fragmentation Function in Z^0 Boson Decays”, [SLD Collab.], Phys. Rev. Lett. 84 (2000) 4300.
116. “A High-Precision Measurement of the Left-Right Z^0 Cross-Section Asymmetry”, [SLD Collab.], Phys. Rev. Lett. 84 (2000) 5945.
117. “First Direct Measurement of the Parity-Violating Coupling of the Z^0 to the s Quark”, [SLD Collab.], Phys. Rev. Lett. 85 (2000) 5059.
118. “An Improved Direct Measurement of Leptonic Coupling Asymmetries with Polarized Z Bosons”, [SLD Collab.], Phys. Rev. Lett. 86 (2000) 1162.
119. “Measurement of CP Violating Asymmetries in B^0 Decays to CP Eigenstates”, [BABAR Collab.], Phys. Rev. Lett. 86 (2001) 2515.
120. “Observation of CP Violation in the B^0 Meson System”, [BABAR Collab.], Phys. Rev. Lett. 87 (2001) 091801.
121. “Measurements of the branching fractions of exclusive charmless B meson decays with η' or ω mesons”, [BABAR Collab.], Phys. Rev. Lett. 87 (2001) 221802.

122. "Search for the decay $B^0 \rightarrow \gamma\gamma$," [BABAR Collab.], Phys. Rev. Lett. 87 (2001) 241803.
123. "Measurement of the $B \rightarrow J/\psi K^*(892)$ decay amplitudes," [BABAR Collab.], Phys. Rev. Lett. 87 (2001) 241801.
124. "Measurement of the B^0 and B^+ meson lifetimes with fully reconstructed hadronic final states," [BABAR Collab.], Phys. Rev. Lett. 87 (2001) 201803.
125. "Measurement of J/ψ production in continuum e^+e^- annihilations near $\sqrt{s} = 10.6$ GeV," [BABAR Collab.], Phys. Rev. Lett. 87 (2001) 162002.
126. "Measurement of branching fractions and search for CP-violating charge asymmetries in charmless two-body B decays into pions and kaons," [BABAR Collab.], Phys. Rev. Lett. 87 (2001) 151802.
127. "Measurement of the decays $B \rightarrow \phi K$ and $B \rightarrow \phi K^*$," [BABAR Collab.], Phys. Rev. Lett. 87 (2001) 151801.
128. "Measurement of CP violating asymmetries in B^0 decays to CP eigenstates," [BABAR Collab.], Phys. Rev. Lett. 86 (2001) 2515.
129. "Search for Light-to-heavy Quark Flavor Changing Neutral Currents in ν_μ N and $\bar{\nu}_\mu$ N Scattering at the Tevatron", [NuTeV Collab.], Phys. Rev. D63 (2001) 012001.
130. "Measurements of F_2 , xF_3^{ν} , $x\bar{F}_3^{\bar{\nu}}$ from CCFR ν_μ Fe and $\bar{\nu}_\mu$ Data in a Model Independent Way", [NuTeV Collab.], Phys. Rev. Lett. 86 (2001) 2742.
131. "A First Measurement of Low x Low Q^2 Structure Functions in Neutrino Scattering", [NuTeV Collab.], Phys. Rev. Lett. 86 (2001) 5430.
132. "Observation of Neutral Current Charm Production in ν_μ Fe Scattering at the Tevatron", [NuTeV Collab.], Phys. Rev. D64 (2001) 12002.
133. "Observation of an Anomalous Number of Dimuon Events in a High-Energy Neutrino Beam", [NuTeV Collab.], Phys. Rev. Lett. 87 (2001) 041801.
134. "Search for the Lepton Number Violating Process $\bar{\nu}_\mu e^- \rightarrow \mu^- \bar{\nu}_e$ ", [NuTeV Collab.], Phys. Rev. Lett. 87 (2001) 071803.
135. "Precise measurement of dimuon production cross-sections in nu/mu Fe and anti-nu/mu Fe deep inelastic scattering at the Tevatron," [NuTeV Collab.], Phys. Rev. D64 (2001) 112006.
136. "Extraction of $R = \sigma_L/\sigma_T$ from CCFR ν_μ Fe and $\bar{\nu}_\mu$ Fe differential cross sections," [NuTeV Collab.], Phys. Rev. Lett. 87 (2001) 251802.
137. "First Symmetry Tests in Polarized Z^0 Decays to $b\bar{b}g$ ", [SLD Collab.], Phys. Rev. Lett. 86 (2001) 962.
138. "Improved Measurement of the Probability for Gluon Splitting into $b\bar{b}$ in Z^0 Decays", [SLD Collab.], Phys. Lett. B507 (2001) 61.

139. "Measurement of A_c with Charmed Mesons at SLD", [SLD Collab.], Phys. Rev. D63 (2001) 032005.
140. "Measurement of branching fractions for exclusive B decays to charmonium final states," [BABAR Collab.], Phys. Rev. D65 (2002) 032001.
141. "Measurement of the branching fractions for $\psi(2S) \rightarrow e^+e^-$ and $\psi(2S) \rightarrow \mu^+\mu^-$," [BABAR Collab.], Phys. Rev. D65 (2002) 031101.
142. "Study of CP-violating asymmetries in $B^0 \rightarrow \pi^+\pi^-$, $K^+\pi^-$ decays," [BABAR Collab.], Phys. Rev. D65 (2002) 051502.
143. "Measurement of $B \rightarrow K^*\gamma$ branching fractions and charge asymmetries," [BABAR Collab.], Phys. Rev. Lett. 88 (2002) 101805.
144. "Direct CP violation searches in charmless hadronic B meson decays," [BABAR Collab.], Phys. Rev. D65 (2002) 051101.
145. "Measurement of $B^0-\bar{B}^0$ flavor oscillations in hadronic B^0 decays," [BABAR Collab.], Phys. Rev. Lett. 88 (2002) 221802.
146. "Measurement of the $B^0-\bar{B}^0$ oscillation frequency with inclusive dilepton events," [BABAR Collab.], Phys. Rev. Lett. 88 (2002) 221803.
147. "Search for the rare decays $B \rightarrow K\ell^+\ell^-$ and $B \rightarrow K^*\ell^+\ell^-$," [BABAR Collab.], Phys. Rev. Lett. 88 (2002) 241801.
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Selected Other Publications

1. "Study of Fluors and Solvents for Use in Water Cerenkov Light Collection," R.Frey, J.Learned, and A.Zukoski, in Proc. 1978 DUMAND Summer Workshop, Vol. I.
2. " $D^{*\pm}$ Production at the CERN SPS Collider", R. Frey, in *Proc. Fourth Topical Workshop on Proton – Antiproton Collider Physics* (1984) 232.
3. "Charm Production at the CERN Proton – Antiproton Collider," R. Frey, Ph.D. dissertation, U.C. Riverside (1984).
4. "The Z^0 Resonance in e^+e^- Annihilation", R. Frey, in *Proc. of the 1989 Theoretical Advanced Summer Institute in Elementary Particle Physics*, Boulder, CO, T. DeGrand and D. Toussaint, eds., World Scientific (1990) 741.
5. "Calorimeter Performance Studies", C. Beauvais, J. Brau, R. Frey, and N. Wermes, *Proc. Meeting of the Tau-Charm Detector and Machine*, p. 309, Universidad de Sevilla, Spain, 1992.
6. "A Silicon Layer for the CsI Calorimeter", K. Braune, R. Frey, *et al.*, *ibid*, pg 289.
7. "GEM Technical Design Report", (GEM Collab at SSC.), GEM-TN-93-262, April 1993.
8. "Precise Measurement of the Left-Right Cross Section Asymmetry in Z Boson Production by Electron-Positron Collisions", R. Frey, *et al.*, in *Proc. XXI SLAC Summer Institute for Particle Physics*, March 1994.
9. "Top Quark Physics at a Future e^+e^- Collider: Experimental Aspects", R. Frey, summary talk at LCWS95, Iwate, Japan; Published in *Proc. of Third Workshop on Physics and Experiments with e^+e^- Linear Colliders*, pg 144–178, World Scientific, Sept. 1996, Miyamoto, Fujii, Matsui, Iwata, eds.
10. "Zeroth-Order Design Report for the Next Linear Collider", C. Adolphsen, *et al.*, SLAC Report 474, May 1996.
11. "Physics and Technology of the Next Linear Collider", S. Kuhlman, *et al.*, SLAC Report 485, June 1996.
12. "Recent Electroweak Results from SLC/SLD", R. Frey, in *Proc. of 5th International Conference on Physics Beyond the Standard Model*, Balholm, Norway, 16pp, World Scientific, 1997, Eigen, Osland, Stugu, eds.
13. "Top Quark Physics: Future Measurements", R. Frey, *et al.*, e-Print Archive: hep-ph/9704243, March 1997, summary report published in *Snowmass 1996: New Directions for High-Energy Physics*, Eds: Cassel, Gennari, Siemann; www.slac.stanford.edu.
14. "The Case for a 500 GeV $e^+ e^-$ Linear Collider", J. Bagger *et al.*, SLAC-PUB-8495, e-Print Archive: hep-ex/0007022.
15. "Progress in X-band Linear Collider Program", R. Frey, published in *Proc. 7th International Symposium on Particles, Strings, and Cosmology (PASCOS99)*, Cheung, Gunion, and Mrenna eds. World Scientific, 2000, pg. 483.

16. “Electroweak Results from SLC/SLD”, *ibid*, pg. 549.
17. “Study of Jet Reconstruction Using Energy Flow,” R. Frey, *Proc. Physics and Experiments with Future Linear e^+e^- Colliders, LCWS2000*, pg 908-911, 2001, AIP, A. Para and H.E. Fisk, eds.
18. “Linear Collider Physics Resource Book for Snowmass 2001”, (American Linear Collider Working Group Collab.), SLAC-R-570, May 2001, 436 pp; e-print: hep-ex/0106055 – 0106058 (Parts 1-4).
19. “Calorimeter Considerations for a Linear Collider Detector,” R. Frey, *Proc. 10th International Conference on Calorimetry in High Energy Physics*, pg. 54, World Scientific, 2002, R.-Y. Zhu ed.
20. “Design Considerations for a Silicon-Tungsten Electromagnetic Calorimeter for a Linear Collider Detector,” *ibid*, pg. 304.
21. “Summary of Calorimetry, Muons, and Other Detectors,” R. Frey, pg. 530, *Proc. International Workshop on Linear Colliders, Korea, Korean Physical Society, 2003*.
22. “A Silicon-Tungsten Electromagnetic Calorimeter with Integrated Electronics,” R. Frey, *et al.*, pg. 572, *Proc. International Workshop on Linear Colliders, Korea, Korean Physical Society, 2003*.
23. “Experimental Introduction,” R. Frey, *Proc. International Workshop on Linear Colliders, Paris, World Scientific, 2005*.
24. “A Silicon-Tungsten Electromagnetic Calorimeter with Integrated Electronics,” R. Frey, *et al.*, *Proc. International Workshop on Linear Colliders, Paris, World Scientific, 2005*.
25. R. E. Frey, for the LIGO Scientific Collaboration, “LIGO: Status and recent results,” *AIP Conf. Proc.* **928**, 11 (2007).
26. R. Frey *et al.*, “A Silicon-Tungsten ECal with Integrated Electronics,” In the Proceedings of 2007 International Linear Collider Workshop (LCWS07 and ILC07), Hamburg, Germany, 30 May - 3 Jun 2007, pp CAL16. [arXiv:0710.2373 [physics.ins-det]].
27. J. E. Brau *et al.*, “An electromagnetic calorimeter for the silicon detector concept,” *Pramana* **69**, 1025 (2007).
28. D. Freytag, *et al.*, “KPiX, an array of self triggered charge sensitive cells generating digital time and amplitude information,” *Nuclear Science Symposium Conference Record, 2008. NSS ’08; IEEE*, 3447. ISBN 978-1-4244-2714-7, DOI 10.1109/NSSMIC.2008.4775080
29. V. Boudry *et al.*, “Summary of the Linear Collider Testbeam Workshop 2009 - LCTW09,” arXiv:1010.1337 [physics.ins-det].
30. “SiD Letter of Intent,” H. Aihara *et al.*, arXiv:0911.0006 [physics.ins-det].
31. “Sensitivity Achieved by the LIGO and Virgo Gravitational Wave Detectors during LIGO’s Sixth and Virgo’s Second and Third Science Runs”, [The LIGO Scientific Collaboration and Virgo Collaboration], arXiv:1203.2674.

Invited Conference Talks

1. “ $D^{*\pm}$ Production at the CERN SPS Collider”, Fourth Topical Workshop on Proton – Antiproton Collider Physics, Bern, Switzerland, 1984.
2. “Experience with the UA1 Detector”, Workshop on Detectors for Relativistic Nuclear Collisions, Berkeley, CA, 1984.
3. “ $D^{*\pm}$ in Jets”, Annual Meeting of the Division of Particles and Fields, Eugene, OR, 1985.
4. “Recent Results from Experiment UA1”, Meeting of the Southeastern Section of the American Physical Society, Athens, GA, 1985.
5. “Radiative Corrections at the Z^0 Resonance”, SLAC Experimental Seminar, Stanford, CA, 1987.
6. “Results from Mark II at the SLC”, Theoretical Advanced Summer Institute, Boulder, CO, 1989.
7. “Calorimeter Performance Studies”, Meeting on the Tau-charm Factory, Sevilla, Spain, 1991.
8. “Measurement of the Left-Right Cross Section Asymmetry with SLC/SLD”, XXI SLAC Summer Institute on Particle Physics, Stanford, CA, 1993.
9. “Top Physics at NLC”, Workshop on the Next Linear Collider, Estes Park, CO, July 1995.
10. “Top Physics, Experimental”, summary talk at LCWS95, Morioka, Japan, September 1995.
11. “Top Physics”, Physics with High Energy e^+e^- Colliders, Fermi National Accelerator Lab, November 1995.
12. “Top Prospects at NLC and Muon Colliders”, New Directions for High Energy Physics, Snowmass, Colorado, June-July 1996.
13. “Recent Results from SLD”, 1997 Aspen Winter Conference on Particle Physics, Aspen, Colorado, January 1997.
14. “Recent Electroweak Results from SLD/SLC”, 5th International Conference on Physics Beyond the Standard Model, Balholm, Norway, Apr 30 - May 4, 1997.
15. “Top Physics at the LC”, Workshop on Physics and Detectors for Future e^+e^- Colliders, Keystone, CO, September, 1998.
16. “Physics and Experimentation at Linear Colliders”, Phenomenology for the Third Millennium, Madison, WI, April, 1999. Talk posted at <http://pheno.physics.wisc.edu/pheno99/home.html>, and <http://zebu.uoregon.edu/~rayfrey/pheno99/pheno99.html>.
17. “Progress in X-band Linear Collider Program”, PASCOS99, 7th International Symposium on Particles, Strings, and Cosmology, Lake Tahoe, CA, December 1999. Published in Proc. of the 7th International Symposium on Particles, Strings, and Cosmology (PASCOS99), Cheung, Gunion, and Mrenna eds. World Scientific, 2000, pg. 483.
18. “Electroweak Physics Results at the Z from LEP and SLC”, Second Meeting of the Northwest Section of the APS, Eugene, OR, May 2000.

19. “Calorimeter Resolution Studies”, Snowmass 2001, *The Future of Particle Physics*, July 2001.
20. “LC Calorimetry: Overview”, Chicago Linear Collider Workshop, Jan., 2002.
21. “Calorimeter Considerations for a Linear Collider Calorimeter”, 10th International Conference on Calorimetry in High Energy Physics, Pasadena, CA, March 2002.
22. “Linear Collider Calorimetry”, Cornell Linear Collider Workshop, April 2002.
23. “Calorimeter Summary”, International Linear Collider Workshop, LCWS2002, Jeju, Korea, August 2002.
24. “Gravitational Wave Detectors”, 2003 IEEE Nuclear Science Symposium and Medical Imaging Conference, Portland, OR, October 2003.
25. “Experimental Introduction”, Plenary session, International Conference on Linear Colliders (LCWS04), Paris, April 19, 2004.
26. “Measurements and Detectors for the Linear Collider”, American Physical Society, April 2004 meeting, Denver, May 1, 2004.
27. “Calorimeter and Muons Summary”, American Linear Collider Workshop, Victoria, BC, Canada, July 31, 2004.
28. “Electromagnetic Calorimetry with Integrated Electronics”, ILC Test Beam Workshop, Fermi National Accelerator Lab, January 18, 2007.
29. “LIGO Results and Status”, Colliders to Cosmic Rays 2007, Granlibakken, California, February 26, 2007.
30. “Summary: Jet and Photon Energy Measurements”, ALCPG07 international linear collider meeting, Fermilab, October 2007, <http://ilc.fnal.gov/conf/alcp07/>
31. “LIGO: Search for Gravitational Waves,” LSST Collaboration Meeting, Dove Mt, AZ, August 2010, <https://www.lsstcorp.org/meeting/all-hands-meeting>
32. “Search for Gravitational Wave Bursts from Six Magnetars,” 9th Edoardo Amaldi Conference on Gravitational Waves, Cardiff, UK, July 2011, <http://www.amaldi9.org/>
33. “LIGO: Prospects for Gravitational-Wave Astronomy,” VII International Conference on Interconnections between Particle Physics and Cosmology (PPC2013), Lead, S Dakota, July 2013, <http://www.dsu.edu/research/ppc2013/>
34. “Prospects for Gravitational-Wave Observations with Advanced LIGO,” IX International Conference on Interconnections between Particle Physics and Cosmology (PPC2015), Deadwood, S Dakota, July 2015, <http://research.dsu.edu/ppc/default.aspx>
35. “Observation of Gravitational Waves from a Binary Black Hole Merger,” ORAAPT, March 12, 2016.
36. “What we are learning from gravitational waves: Putting the ‘O’ in LIGO,” national AAPT meeting, Provo, Utah. July 2019.

37. Division of Atomic, Molecular and Optical Physics, invited public talk on LIGO, June 2020, canceled due to COVID-19.