JAMES E. BRAU
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EDUCATION:

MASSACHUSETTS INSTITUTE OF TECHNOLOGY Cambridge, MA

Doctor of Philosophy degree in Physics, January 1978. Concentration in the interaction of high energy particles in hybrid bubble chamber experiments at Fermi National Accelerator Laboratory involving the 30-inch Hydrogen Bubble Chamber, associated proportional wire chambers and lead glass forward gamma detector. Thesis on "Inclusive and Semi-inclusive Charge Structure in Pion-Proton Multiparticle Production Reactions at 150 GeV/c" under supervision of Professor Richard K. Yamamoto. Hertz Foundation Fellow, (1974-1977).

UNIVERSITY OF NEW MEXICO Albuquerque, NM

January 1972 - December 1973. Took six physics graduate courses.

MASSACHUSETTS INSTITUTE OF TECHNOLOGY Cambridge, MA

Master of Science degree in Physics, June 1970. Masters thesis on"Prism Plot Analysis of the Pion-Proton Interaction Yielding a Three-Body Final State" under supervision of Professor Irwin A. Pless. Hertz Foundation Fellow, 1969 - 1970.

UNITED STATES AIR FORCE ACADEMY Colorado Springs, CO

Bachelor of Science degree in Physics and Mathematics (double major), June 1969. Was graduated twelfth in class as a Distinguished Graduate. Named the Outstanding Cadet in Physics of the Class of 1969. Member of Pi Mu Epsilon mathematics honorary fraternity. Gamma ray spectroscopy research with Lt. Col. R. Kelley.

EXPERIENCE:

UNIVERSITY OF OREGON Eugene, OR

Philip H. Knight Professor of Natural Science (2006-); Professor of Physics (1988-); Associate Director, Linear Collider Collaboration (2016-2020); Director, UO Center for High Energy Physics (1999-2016); Director, Technical Science Administration (1997-2000). Exploration of the high energy frontier and discovery of the Higgs boson with ATLAS at the LHC; first direct detection of gravitational radiation with the LIGO Scientific Collaboration; physics and detector studies for the Linear Collider; studies of electroweak symmetry breaking with SLD and NuTeV; study of CP violation and rare heavy flavor decays with the BaBar experiment at SLAC.

UNIVERSITY OF TENNESSEE Knoxville, TN

Professor of Physics (1987-1988). Associate Professor of Physics - (1982 - 1987). Research on photoproduction of charmed particles and vector mesons in collaboration with the Stanford Linear Accelerator Center and other high energy physics research groups (co-spokesman); design and construction of major new detector(SLD) for studies of electron-positron collisions at the Z^0 resonance in the Stanford Linear Collider (1982 - 1988).

STANFORD LINEAR ACCELERATOR CENTER Stanford University, CA

Research Associate in the bubble chamber experimental research group; doing research on anti-proton nucleon annihilation and photoproduction with a backscattered laser beam; responsible for the design, construction, operation, and analysis of the lead glass detector used in the SLAC Hybrid Bubble Chamber Facility. (1978-1982).

AIR FORCE WEAPONS LABORATORY Kirkland AFB, NM

Physicist in the Theoretical Branch, Technology Division; responsible for in-house theoretical studies including laser kinetics modelling, laser-target interaction studies, and high altitude electromagnetic pulse calculations. Chief, General Physics Group, 1973-74. (1971-1974).

AIR FORCE GUIDANCE TEST DIRECTORATE Holloman AFB, NM

Physicist in the Analysis Branch responsible for data analysis of guidance system tests. (1970-1971).

LAWRENCE LIVERMORE LABORATORY Livermore, CA

Worked on the 2x plasma fusion device with Dr. R. Ellis. (Summer, 1968).

GRANT SUPPORT:

RECENT PRINCIPAL GRANT
U.S. Department of Energy
$3,000,000 (Jul 2020 - Mar 2024)
Experimental High Energy Physics
Principal Investigator

Principal Investigator for more than $30,000,000 in federal and other external grants at Oregon since 1988.

PROFESSIONAL ORGANIZATIONS AND HONORS:

1. American Physical Society, Fellow (2000).
2. American Association for the Advancement of Science, Fellow (2009).
3. Univ. of Oregon Research Innovation Award (2011).
4. Awards as member of LIGO discovery team:
   2016 Gruber Cosmology Prize, co-recipient.
   2017 Special Breakthrough Prize in Fundamental Physics, co-recipient.
   2017 Royal Astronomical Society Group Achievement Award, co-recipient.
   2017 Bruno Rossi Prize (AAS), co-recipient.
5. Inaugural Presidential Research Lecturer, Univ. of Oregon (2012).
6. Institute of Electrical and Electronics Engineers, Senior Member (1998).
7. Planetary Society, member.
8. Hertz Foundation Fellow.

PROFESSIONAL COMMITTEES:

1. SLD Collaboration Council, 1983-2001.
2. SLD Advisory Group, 1994-2001.
3. Task Force on Radiation Effects at the SSC, 1988.
4. Task Force on Radiation Levels in the SSC Interaction Regions, 1988.
5. SLAC Users Organization (SLUO) Executive Committee, 1990-1993.
6. SLAC Experimental Program Advisory Committee (EPAC), January 1, 1991 - December 31, 1993.
7. GEM Executive Committee, 1991-1994.
8. GEM Collaboration Council, 1991-1993.
9. Steering Committee of the Rocky Mountain Consortium for High Energy Physics, 1991-1994.
10. External Advisory Board, Prairie View Particle Detector Research Center, Prairie View A&M University, TX, 1992-93
11. SSC Users Organization Executive Committee, 1992-1993.
12. Selection Committee, SSC Postdoctoral and Faculty Fellowship Program, 1992, 1993.
13. Department of Energy Review Committee on the Scope, Budget, and Schedule of the Solenoidal Detector Collaboration experiment at the SSC, 1993.
14. Department of Energy external review panel for Fermi National Accelerator Laboratory, 1995, 1996.

15. National Research Council Committee on Elementary Particle Physics, 1995-98.
16. Department of Energy/National Science Foundation review panels on the CMS/ATLAS Detectors, 1996-2000.
17. Department of Energy HEPAP Sub-Panel on Planning for the Future of US High Energy Physics, 1997-98.
18. National Science Foundation Visiting Committee to the Physics Division, July 23-25, 1997.
19. Program Chairman, 1997 IEEE Nuclear Science Symposium, November, 1997.
20. LIGO Scientific Collaboration Council, 1997-2007
21. LIGO Scientific Collaboration Executive Committee, 1997-2002
22. APS Division of Particles and Fields Nominating Committee, 1999 (member), 2000 (chair).
23. SLAC Scientific Policy Committee, 2001-2004; chair, 2003, 2004; (acting chair, December 2001).
24. Fermilab Physics Advisory Committee, 2002-2006.
25. Linear Collider Steering Group of the Americas, 2002-2013.
26. Americas Linear Collider Committee, 2013-present.
27. American Linear Collider Physics Group, co-chair, 2002-2013.
28. Organizing Committee for the World-wide Study of the Physics and Detectors for Future Linear e^+e^- Linear Colliders, member, 2002-2013, co-chair, 2003-2013.
29. International Linear Collider Research Director's Committee, 2007-2013.
30. Deutsches Elektronen-Synchrotron (DESY) Physics Review Committee, 2003-2007.
31. Vertex Detector Conference International Organizing Committee, 2003-2006.
32. External Member, SMU Physics Department Review Committee, November, 2003.
33. NSF Panel on Gravitational Research, January, 2004.
34. Selection Committee for the W.K.H Panofsky Prize in Experimental Particle Physics (APS Division of Particles and Fields), 2004, 2005.
35. IEEE Nuclear and Plasma Sciences Society, Radiation Instrumentation Steering Committee, 2005-2007 (elected).
36. International Linear Collider Steering Committee, 2005-2008.
37. International Linear Collider Global Design Effort Central Team, 2005-2013.
38. High Energy Physics Advisory Panel (HEPAP), 2005-2008.
39. National Research Council, Board on Physics and Astronomy, 2006-2009.
40. International Advisory Board, Physics at the Terascale, Strategic Helmholtz Alliance, Germany, 2007-present.
41. National Research Council Committee to Review U.S. ITER Science Participation Planning Process, 2007-2008.

42. HEPAP University Grants Program Subpanel, 2006-2007.
43. HEPAP Particle Physics Project Prioritization Panel, 2007-2011.
44. NSF Panel on Elementary Particle Physics, 2009.
45. NSF Panel on Elementary Particle Physics, 2012.
46. NSF Panel on Elementary Particle Physics, 2017.
47. International Advisory Committee, International Conference on Calorimetry in Particle Physics, 2013-.
48. DOE Review Panel for the LHC CMS Detector Upgrade Project, 2013-2015.
49. Linear Collider Collaboration Physics and Detector Executive Board, 2013-2020, chair: 2016-2020.
50. Associate Director, Linear Collider Collaboration, 2016-2020.
51. ILC International Development Team, Working Group 3, member, 2020-.

PUBLICATIONS:

1. Z.F. Danes *et al.*,"Geophysical Investigation of the Southern Puget Sound Area, Washington," Journal of Geophysical Research, 70, 5573 (1965).
2. J.E. Brau *et al.*, "Prism Plot: A New Analysis of Multi-body Final States," Phys. Rev. Letters, 27, 1481 (1971).
3. S.D. Rockwood, J.E. Brau, W.A. Proctor, and G.H. Canavan, "Time Dependent Calculations of Carbon Monoxide Laser Kinetics," IEEE Journal of Quantum Electronics, QE-9, 120 (1973).
4. J.E. Brau *et al.*, "Inclusive and Semi-inclusive ρ^o Production in π^-p Interactions at 15 GeV/c," Nuclear Physics B99, 232 (1975).
5. D.G. Fong *et al.*, "Inclusive and Semi-inclusive ρ^o Production in π^-p Interactions at 147 GeV/c," Physics Letters 60B, 124 (1975).
6. D.G. Fong *et al.*, "Evidence for Charged Cluster Emission in 147 GeV/c π^-p Collisions," Physics Letters 61B, 99 (1976).
7. D.G. Fong *et al.*, "Cross Sections and Charged Multiplicity Distributions for π^-p and K$^-$p Interactions at 147 GeV/c," Nucl. Phys. B102, 386 (1976).
8. D.G. Fong *et al.*, "Inelastic 2-prong Events in 147 GeV/c π^- Collisions," Nucl. Phys. B104, 32 (1976).
9. Proportional Hybrid Consortium, "Average Charge Multiplicity in $\pi^- + \mathrm{p} \to \pi^-_{\mathrm{fast}} +$ X at 147 GeV/c and Comparison with Other Reactions," Phys. Rev. Letters, 37, 736 (1976).
10. D.G. Fong *et al.*, "The Exclusive Channel $\pi^-\mathrm{p}^-\pi^+$pin π^-p Interactions at 147 GeV/c," Il Nuovo Cimento 34A, 659 (1976).
11. M. Heller *et al.*, "Test Results of a 31 cm x 31 cm Lead Glass Electromagnetic Shower Detector," Nucl. Instr. Meth. 152, 379 (1978).
12. D. Brick *et al.*, "Inclusive Δ^{++} production in π^-p interactions at 147 GeV/c," Phys. Rev. D18, 3099 (1978).
13. F. Barreiro *et al.*, "Study of Inclusive Vector-Meson Production in π^-p Interactions at 15 GeV/c," Phys. Rev. Letters 40, 595 (1978).
14. F. Barreiro *et al.*, "Inclusive Δ^{++} (1232) production in π^-p Interactions at 15 GeV/c," Phys. Rev. D17, 681 (1978).
15. F. Barreiro *et al.*, "Inclusive Neutral-strange-particle Production in $\pi^-\mathrm{p} \to \pi^-_{\mathrm{fast}}$ + X at 147 GeV/c," Phys. Rev. D17, 669 (1978).
16. D. Brick *et al.*, "Triple Regge Analysis of the Reactions $\pi^-\mathrm{p} \to \mathrm{p}_{\mathrm{slow}}$ + X and $\pi^-\mathrm{p} \to \pi^-_{\mathrm{fast}}$ + X at 147 GeV/c," Nucl. Phys. B150, 109 (1979).
17. D. Brick *et al.*, "Average Charged-particle Multiplicities in π^-p Inclusive Reactions at 147 GeV/c," Phys Rev. D19, 743 (1979).
18. D. Brick *et al.*, "Neutral-particle Production in π^-p Interactions at 147 GeV/c and Comparison to Charged-Particle Production," Phys. Rev. D20, 2123 (1979).
19. D. Brick *et al.*, "Inclusive and Semi-inclusive Charge Structure in π^-p Multiparticle Production at 147 GeV/c," Nucl. Phys. B152, 45 (1979).
20. R.T. Van de Walle *et al.*, "Inclusive and Exclusive Results in K$^+$p, π^+p and p p Interactions at 147 GeV/c," Proceedings of the Symposium on Multiparticle Dynamics, Goa, India, pg. 768 (1979).
21. D. Brick *et al.*, "Inclusive Δ^{++} production in pp, K^+p, π^+p, and p-p Interactions at 147 GeV/c," Phys. Rev. D21, 632 (1980).

22. D. Brick *et al.*, "Leading Particles and Diffraction Dissociation in 150 GeV/c π^-p Interactions," Phys. Rev. D21, 1726 (1980).
23. D. Brick *et al.*, "Inclusive Production of Neutral Strange Particles by 147 GeV/c $\pi^+/K^+/p$ Interactions in Hydrogen," Nucl. Phys. B164, 1 (1980).
24. J. Ballam *et al.*, "Vector Meson Production in Hypercharge Exchange Reactions at 7 and 11.5 GeV/c," Nucl. Phys. B166, 189 (1980).
25. J. Carroll *et al.*, "On-Line Experience with the 168/E," SLAC-PUB-2726 (1981), published in the Proceedings of the Topical Conference on the Applications of Microprocessors to High-Energy Physics Experiments, CERN 81-07, 17 July, 1981.
26. J. Brau and G. Tarnopolsky, "Hadron Polarization in Heavy Lepton Decays," Phys. Rev. D24, 2521 (1981).
27. J. Brau *et al.*, "The Lead Glass Columns: A Large Shower Detector at the SLAC Hybrid Facility," Nucl. Inst. and Methods, 196, 403 (1982).
28. J. Brau "Photoproduction of Charmed Particles at 19.5 GeV," Proceedings of the SLAC Summer Institute on Particle Physics, July-August 1981.
29. K. Abe *et al.*, "Lifetimes of Charmed Particles Produced in a 20 GeV/c gp Experiment," Phys. Rev. Letters 48, 1526 (1982).
30. D. Brick *et al.*, "Inclusive Strange Resonance Production in pp, π^+p, and K^+p Interactions at 147 GeV/c," Phys. Rev. D25, 2248 (1982).
31. T. Kitagaki *et al.*, "Reaction $\pi p \to \pi^+\pi^- p$ at 8 GeV/c," Phys. Rev. D26, 1554 (1982).
32. T. Kitagaki *et al.*, "Elastic Scattering and Particle Production in Two-Prong p-p Interactions at 8 GeV/c," Phys. Rev. D26, 1572 (1982).
33. W.M. Bugg *et al.*, "Some g(1700) decay modes," Phys. Rev. D26, 2183 (1982).
34. F. Azooz *et al.*, "Evidence for a narrow $N\overline{N}$ State at 2.02 GeV/c2 in 6 and 9 GeV/c antiproton interactions," Phys. Lett. 122B, 471 (1983).
35. B. Cox *et al.*, "A measurement of the response of an SCGI-C scintillation glass shower detector to 2-17.5 GeV positrons," IEEE Transactions on Nuclear Science, NS-30, 127 (1983).
36. K. Abe *et al.*, "Charm Photoproduction Cross Section at 20 GeV," Phys. Rev. Letters 51, 156 (1983).
37. J.E. Brau, "Latest Results from the SLAC Charm Photoproduction Experiment," Experimental Meson Spectroscopy - 1983, pg 419, American Institute of Physics, 1984.
38. K. Abe *et al.*, "Charm Photoproduction at 20 GeV," Phys. Rev. 30D, 1 (1984).
39. K. Abe *et al.*, "Inclusive Photoproduction of Neutral Strange Particles at 20 GeV," Phys. Rev. 29D, 1877 (1984).
40. K. Abe *et al.*, "Study of the $\rho'(1600)$ Mass Region Using $\gamma p \to \pi^+\pi^- p$ at 20 GeV," Phys. Rev. Lett. 53, 751 (1984).
41. K. Abe *et al.*, "Search for a Threshold Enhancement with $\gamma p \to$ Charmed Baryon + Charmed Meson Cross Section," Phys. Rev. 30D, 694 (1984).
42. D. Brick *et al.*, "Search for Long-Lived Charge +2 Hadrons," Phys. Rev. 30D, 1134 (1984).
43. D. Brick *et al.*, "Planar Events Produced in Hadron-Proton Collisions at 147 GeV/c and Their Jet-Like Structures," Z. Physik C24, 19 (1984).
44. F. Azooz *et al.*, "An Investigation of Narrow Meson Resonance Production in Anti-proton-Proton and Anti-Proton-Neutron Interactions at 6.1 and 8.9 GeV/c," Nucl. Phys. B244, 277 (1984).
45. K. Abe *et al.*, "Test of s-channel Helicity Conservation in Inelastic ρ° Diffraction in 20 GeV Photoproduction," Phys. Rev. D32, 2288 (1985).

46. J.E. Brau and T. A. Gabriel, "Monte Carlo Studies of Uranium Calorimetry," Nucl. Inst. and Methods, A238, 489 (1985).
47. K. Abe *et al.*, "Inclusive Photoproduction of Strange Baryons at 20 GeV," Phys. Rev. D32, 2869 (1985).
48. J.E. Brau, "Charmed Meson Lifetimes from 20 GeV Photoproduction," Flavour Mixing and CP Violation, edited by J. Tran Thanh Van, editions Frontieres, 1985.
49. T.A. Gabriel *et al.*, "Compensation Effects in Hadron Calorimeters," IEEE Transactions of Nucl. Sci. NS32, 697 (1985).
50. R. Dubois *et al.*, "SLD Liquid Argon Calorimeter Prototype Test Results," IEEE Transactions of Nucl. Sci. NS33, 194 (1986).
51. K. Abe *et al.*, "Lifetimes, Cross-Sections, and Production Mechanisms of Charmed Particles Produced by 20-GeV Photons," Phys. Rev. D33, 1 (1986).
52. V.R. O'Dell *et al.*, "Forward Charge Asymmetry in 20-GeV γ p Reactions," Phys. Rev. D36, 1 (1987).
53. J.E. Brau, B. Franek, and W. C. Wester, III, "A Measurement of the Spin-Parity of the $\omega\pi^\circ$ state at 1200 MeV/c^2 in $\gamma p \to p\omega\pi^\circ$ at 20 GeV," Proceedings of the XXIII International Conference on High Energy Physics, page 733, edited by S.C. Loken, World Scientific, 1987.
54. J.E. Brau *et al.*, "Production and decay properties of the $\omega\pi^\circ$ state at 1250 MeV/c^2 produced by 20 GeV polarized photons on hydrogen," Phys. Rev. D37, 2379 (1988).
55. K. Abe *et al.*, "Leading Particle Distributions in 200 GeV/c p + A Interactions," Phys. Lett. B200, 266 (1988).
56. T. Kitagaki *et al.*, "A New Method to Investigate the Nuclear Effect in Leptonic Interactions," Phys. Lett. B214, 281 (1988).
57. T.A. Gabriel, J.E. Brau, and B.L. Bishop, "The Physics of Compensating Calorimetry and the New CALOR89 Code System," IEEE Trans. Nucl. Sci 36, 14 (1989).
58. The SLD Collaboration, "A Status Report on the SLD Data Acquisition System," IEEE Trans. Nucl. Sci. 36, 23 (1989).
59. S.C. Berridge *et al.*, "The Small Angle Electromagnetic Calorimeter at SLD: A 2m^2 Application of Silicon Detector Diodes," IEEE Trans. Nucl. Sci 36, 339 (1989).
60. J.E. Brau and T.A. Gabriel, "Comments on 'On the Energy Resolution of Uranium and other Hadron Calorimeters'," Nucl. Inst. and Methods A275, 190 (1989).
61. D. Groom for the Task Force on Radiation Levels in the SSC Interaction Regions, "Radiation Levels in SSC Detectors," Nucl. Inst. and Methods A279, 1 (1989).
62. J.E. Brau and T.A. Gabriel, "Theoretical Studies of Hadronic Calorimetry for High Luminosity, High Energy Colliders," Nucl. Inst. and Methods A279, 40 (1989).
63. E. Borchi *et al.*, "Silicon Sampling Hadronic Calorimetry: A Tool for Experiments at the Next Generation of Colliders," Nucl. Inst. and Methods A279, 57 (1989).
64. J.E. Brau, K.T. Pitts, and L.E. Price, "Detection of Higgs Bosons Decaying to Bottom Quarks at the SSC," Proceedings of the Summer Study on High Energy Physics in the 1990's, page 103, edited by Sharon Jensen, World Scientific, 1989.
65. J.E. Brau, T.A. Gabriel, and P.G. Rancoita, "Prospects for and Tests of Hadron Calorimetry with Silicon," Proceedings of the Summer Study on High Energy Physics in the 1990's, page 824, edited by Sharon Jensen, World Scientific, 1989.
66. D.H. Brick *et al.*, "Multiparticle Production by 200 GeV/c Hadrons on Gold, Silver, and Magnesium Targets," Phys. Rev. D39, 2484 (1989).

67. D. Groom for the Task Force on Radiation Levels in the SSC Interaction Regions, "Radiation Levels in SSC Detectors," Proceedings of the Summer Study on High Energy Physics in the 1990s, page 711, edited by Sharon Jensen, World Scientific, 1989.
68. K. Furuno, J.E. Brau, and H. Hwang, "Neutron Flux Suppression with Polyethylene Moderators in Silicon Hadron Calorimeters," Proceedings of the ECFA Study Week on Instrumentation Technology for High-Luminosity Hadron Colliders, Barcelona, Sep. 14-21, 1989, CERN 89-10, p. 325 (1989).
69. D. Groom for the Task Force on Radiation Levels in the SSC Interaction Regions, "Radiation Levels in SSC Calorimetry," Proceedings of the Workshop on Calorimetry for the Supercollider, page 77, edited by Rene Donaldson and M.G.D. Gilchriese, World Scientific, 1990.
70. J. Brau (editor) *et al.*, "Silicon Calorimetry for the SSC," Proceedings of the Workshop on Calorimetry for the Supercollider, page 489, edited by Rene Donaldson and M.G.D. Gilchriese, World Scientific, 1990.
71. S.C. Berridge *et al.*, "Beam Test of the SLD Silicon-Tungsten Luminosity Monitor," IEEE Trans. Nucl. Sci. 37, 1191 (1990).
72. D.H. Brick *et al.*, "Rapidities of Produced Particles in 200 GeV/c $\pi^+ pK^+$ Interactions on Au, Ag, and Mg," Phys. Rev. D41, 765, (1990).
73. G.T. Condo *et al.*, "Charge Exchange Photoproduction of the a2$^-$(1320) in Association with Δ^{++} at 19.3 GeV/c," Phys. Rev. D41, 3317 (1990).
74. J.E. Brau for the EMPACT Collaboration, "The EMPACT Detector for the SSC," Nucl. Inst. and Methods, B56/57, 942 (1991).
75. J.E. Brau, "Recent Developments in Silicon Calorimetry," Proceedings of the Symposium on Detector Development for the Superconducting Super Collider, page 309, edited by T. Dombeck, V. Kelly, and G. Yost, World Scientific, 1991.
76. J.E. Brau *et al.*, "Low Cost, Large Area Silicon Detectors for Calorimetry," Proceedings of the Symposium on Detector Development for the Superconducting Super Collider, page 334, edited by T. Dombeck, V. Kelly, and G. Yost, World Scientific, 1991.
77. K. Furuno *et al.*, "Neutron Flux Suppression with Polyethylene Moderation in the EMPACT Silicon EM Calorimeter," Proceedings of the Symposium on Detector Development for the Superconducting Super Collider, page 379, edited by T. Dombeck, V. Kelly, and G. Yost, World Scientific, 1991.
78. J.E. Brau and K. Furuno, "Hadron Calorimetry - Optimizing Performance," Proceedings of the First International Conference on Calorimetry in High Energy Physics, page 3, edited by D.F. Anderson, M. Derrick, H.E. Fisk, A. Para, and C.M. Sazama, World Scientific, 1991.
79. J.E. Brau, "Calorimetry Subsystem R&D II," Proceedings of the 1991 Symposium on the Superconducting Super Collider, Addendum, Corpus Christi, October, 1991, SSCL-SR-1213.
80. J.E. Brau, "Simulation of Hadronic Showers and Calorimeters," Nucl. Inst. and Methods A312, 483 (1992); Erratum: Nucl. Inst. and Methods A320, 612 (1992).
81. S.C. Berridge *et al.*, "First Results from the SLD Silicon Calorimeters," Conference Record of the 1991 IEEE Nuclear Science Symposium and Medical Imaging Conference, volume 1, 236 (1992).
82. S.C. Berridge *et al.*, "First Results from the SLD Silicon Calorimeters," IEEE Trans. Nucl. Sci 39, 1242, (1992).
83. D.H. Brick *et al.*, "Neutral Strange Particle Production in 200-GeV/c p / π^+ / K^+ Interactions on Au, Ag, and Mg," Phys. Rev. D45 (1992) 734-742.

84. A. Arodzero *et al.*, "A Prototype Silicon Preradiator for the SSC,", Conference Record of the 1992 IEEE Nuclear Science Symposium and Medical Imaging Conference, Volume 1, 236 (1993).
85. A. Arodzero *et al.*, "A Prototype Silicon Preradiator for the SSC," IEEE Trans. on Nucl. Sci. 40, 563 (1993).
86. K. Abe *et al.*, "First Measurement of the Left-Right Cross Section Asymmetry in Z Boson Production by e^+ e^- Collisions," Phys. Rev. Lett. 70, 2515 (1993).
87. K. Abe *et al.*, "A Measurement of α_S from jet rates at the Z^0 Resonance," Phys. Rev. Lett. 71, 2528 (1993).
88. R.D. Elia *et al.*, "First Measurement of the Left-Right Asymmetry in Z Boson Production," Mod. Phys. Lett. A8, 2237 (1993).
89. D. Axen *et al.*, "The Lead Liquid Argon Sampling Calorimeter of the SLD Detector," Nucl. Inst. and Methods A328, 472 (1993).
90. K. Abe *et al.*, "Measurement of the Charged Multiplicity of $Z^0 \to b\bar{b}$ Events," Phys. Rev. Lett. 72, 3145 (1994).
91. K. Abe *et al.*, "Precise Measurement of the Left-right Cross Section Asymmetry in Z Boson Production by e^+e^- Collisions," Phys. Rev. Lett. 73, 25, (1994).
92. K. Abe *et al.*, "Measurement of α_s from Energy-Energy Correlations at the Z^0 Resonance," Phys. Rev. D50, 5580 (1994).
93. K. Abe *et al.*, "A Search for Jet Handedness in Hadronic Z^0 Decays," Phys. Rev. Lett. 74, 1512 (1995).
94. K. Abe *et al.*, "Polarized Bhabha Scattering; a Precision Measurement of the Electron Neutral Current Couplings," Phys. Rev. Lett. 74, 2880 (1995).
95. K. Abe *et al.*, "Measurement of $\alpha_s(M(z)^2)$ from Hadronic Event Observables at the Z^0 Resonance," Phys. Rev. D51, 962 (1995).
96. K. Abe *et al.*, "Measurement of A_b from the Left-right Forward-backward Asymmetry of b quark Production in Z^0 Decaus Using a Momentum Weighted Track Charge Technique," Phys. Rev. Lett. 74, 2890 (1995).
97. K. Abe *et al.*, "Measurement of A_b and A_c from the Left-right Forward-backward Asymmetry of Leptons in Hadronic Events at the Z^0 Resonance," Phys. Rev. Lett. 74, 2895 (1995).
98. R.T. Kollipara *et al.*, "Study of 18-cm Long Single Sided ac Coupled Silicon Microstrip Detectors," IEEE Trans. Nucl. Sci. 42, 92 (1995).
99. K. Abe *et al.*, "Measurement of the Left-Right Forward-Backward Asymmetry for Charm Quarks with D^{*+} and D^+ Mesons," Phys. Rev. Lett. 75, 3609 (1995).
100. K. Abe *et al.*, "Measurement of the Average B Hadron Lifetime in Z^0 Decays Using Reconstructed Vertices," Phys. Rev. Lett. 75, 3624 (1995).
101. K. Abe *et al.*, "First Measurement of the T-odd Correlation Between the Z^0 Spin and the Three Jet Plan Orientation in Polarized Z^0 Decays to Three Jets," Phys. Rev. Lett. 75, 4173 (1995).
102. K. Abe *et al.*, "Comparison of a New Calculation of Energy-Energy Correlations with $e^+e^- \to Hadrons$ Data at the Z^0 Resonance," Phys. Rev. D52, (1995).
103. K. Abe *et al.*, "Measurement of the Tau Lifetime at SLAC," Phys. Rev. D52, 4828 (1995).
104. James E. Brau, "VXD3: The SLD Vertex Detector Upgrade Based on a 307 Mpixel CCD System," IEEE Trans. Nucl. Sci. 43, 1107 (1996).
105. K. Abe *et al.*, "Factorial and cumulant moments in $e^+e^- \to$ hadrons at the Z^0 resonance," Phys. Lett. B371, 149 (1996).

106. A. Arodzero, J.E. Brau, R.E. Frey, D. Gao, R.T. Kollipara, M.Langston, D. Mason, N. Sinev, D. Strom, X. Yang, M. Brooks, D. Lee, G. Mills, "Beam Test of Prototype 18 cm Silicon-Strip Detectors with High Speed Electronics," IEEE Trans. Nucl. Sci. 43,1180 (1996).
107. K. Abe *et al.*, "Measurement of R_b with Impact Parameters and Displaced Vertices," Phys. Rev. D53, 1023 (1996).
108. K. Abe *et al.*, "A Test of the Flavor Independence of Strong Interactions," Phys. Rev. D53, 2271 (1996).
109. K. Abe *et al.*, "A Study of Rapidity Gaps in $e^+e^- \to Z^0$ Events," Phys. Rev. Lett. 76, 4886 (1996).
110. K. Abe *et al.*, "The SLD VXD3 detector and its initial performance," Nucl. Instrum. Meth. A386, 46 (1997).
111. James E. Brau, Anatoli A. Arodzero, and David M. Strom, "Calorimetry for the NLC Detector," New Directions for High Energy Physics: Proceedings of the 1996 DPF/DPB Summer Study on High Energy Physics, page 437, edited by D.G. Cassel, L. Trindle Gennari, and R.H. Siemann, Stanford Linear Accelerator Center, 1997.
112. C.J.S. Damerell *et al.*, "Ideas for the NLC Detector," New Directions for High Energy Physics: Proceedings of the 1996 DPF/DPB Summer Study on High Energy Physics, page 431, edited by D.G. Cassel, L. Trindle Gennari, and R.H. Siemann, Stanford Linear Accelerator Center, 1997.
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