

CURRICULUM VITAE

April 7, 2003

Name: Andris Skuja

Title: Professor

I. Education:

B.A.Sc.	University of Toronto	June 1966
Ph.D.	Univ. of Calif. (Berkeley)	March 1972

II. Experience in Higher Education:

9/71-8/76	University of Oxford (UK)	Research Officer
8/76-7/81	University of Maryland	Assistant Professor
1/81-7/81	McGill University	Visiting Professor
7/81-7/89	University of Maryland	Associate Professor
1/83-12/83	DESY	Visiting Research Scientist
7/89 - present	University of Maryland	Professor
1/92-7/92	SSCL	Guest Scientist
1/93-7/93	SSCL	Guest Scientist

III. List of Publications

A. Papers published (or accepted for publication) in refereed journals.

1. A. Skuja, R. B. Chaffee, O. I. Dahl, R. W. Kenney, I. R. Linscott, M. Pripstein, T. B. Risser, and M. A. Wahlig, "Dipion system in the reaction $\pi^- p \rightarrow \pi^0 \pi^0 n$ at 1.6 GeV/c ", Phys. Rev. Lett. **31** (10), 653 (1973).
2. J. E. Nelson, R. B. Chaffee, et al., "Study of the reaction $\pi^- p \rightarrow \pi^0 n$ between 1.0 and 2.4 GeV/c ", Phys. Lett. **B 47**, 281 (1973).
3. H. L. Anderson, V. K. Bharadwaj, N. E. Booth, R. M. Fine, W. R. Francis, B. A. Gordon, R. H. Heisterberg, R. G. Hicks, T. B. W. Kirk, G. I. Kirkbride, W. A. Loomis, H. W. Matis, L. W. Mo, L. C. Myriantopoulos, F. M. Pipkin, S. H. Pordes, T. W. Quirk, A. Skuja, W. D. Shambroom, L. J. Verhey, W. S. C. Williams, Richard Wilson, and S. C. Wright, "Inclusive hadron production in inelastic Muon-Proton Scattering at 150 GeV/c ", Phys. Rev. Lett. **35** (22), 1483 (1975).
4. H.L. Anderson, et al., "Properties of inclusive hadron spectra in muon nucleon scattering at 150 GeV/c ", Phys. Rev. Lett. **36** (24) 1422 (1976).
5. H. L. Anderson, et al., "Measurement of nucleon structure functions in muon scattering at 147 GeV/c ", Phys. Rev. Lett. **37** (1), 4 (1976).
6. W. R. Francis, H. L. Anderson, et al., "Diffractive production of ρ mesons by 147 GeV/c muons", Phys. Rev. Lett. **38**, 633 (1977).
7. H. L. Anderson, et al., "Measurement of proton structure function from muon scattering", Phys. Rev. Lett. **38**, 1450 (1977).
8. B. A. Gordon, T. W. Quirk, H. L. Anderson, N. W. Booth, W. A. Loomis, H. S. Matis, L. W. Mo, L. C. Myriantopoulos, F. M. Pipkin, J. Proudfoot, A. L. Sessoms, W. D. Shambroom, A. Skuja, M. A. Staton, C. Tao, W. S. C. Williams, Richard Wilson, S. C. Wright, "Muon scattering at 219 GeV/c and the proton structure functions", Phys. Rev. Lett. **41** (9), 61 (1978).

9. Ch. Berger, H. Genzel, R. Grigull, W. Lackas, F. Raupach, W. Wagner, A. Klovning, E. Lillestol, E. Lillethun, J. A. J. Skard, H. Ackermann, G. Alexander, F. Barreiro, J. Burger, L. Criegee, H. C. Dehne, R. Devenish, G. Flugge, G. Franke, W. Gabriel, Ch. Gerke, G. Horlitz, G. Knies, E. Lehmann, H. D. Mertiens, B. Neumann, K. H. Pape, H. D. Reich, B. Stella, U. Timm, P. Waloschek, G. G. Winter, M. S. Wolff, W. Zimmermann, O. Achteberg, V. Blobel, L. Boesten, H. Kapitza, B. Koppitz, W. Luhrsens, R. Maschuw, R. van Staa, H. Spitzer, C. Y. Chang, R. G. Glasser, R. G. Kellogg, K. H. Lau, B. Sechi-Zorn, A. Skuja, G. Welch, G. T. Zorn, A. Backer, S. Brandt, K. Derikum, C. Grupen, H. J. Meyer, M. Rossler, D. Schmidt, K. Wacker (**PLUTO** Collaboration), “First Observation of hadron production in e^+e^- collisions at 13 and 17 GeV cms energy with the PLUTO detector at PETRA”, *Phys. Letters* **B 81**, 410 (1979).
10. W. A. Loomis, B. A. Gordon, F. M. Pipkin, S. H. Pordes, W. D. Shambroom, L. J. Verhey, Richard Wilson, H. L. Anderson, R. M. Fine, R. H. Heisterberg, H. S. Matis, L. Mo, L. C. Myriantopoulos, S. C. Wright, W. R. Francis, R. G. Hicks, T. B. W. Kirk, V. K. Bharadwaj, N. E. Booth, G. I. Kirkbridge, T. W. Quirk, A. Skuja, M. A. Staton, and W. S. C. Williams, “Hadron production in muon-proton and muon-deuteron collisions”, *Phys. Rev.* **D 19**, 2543, (1979).
11. Ch. Berger, et al., (PLUTO Collaboration), “Search for ‘top’ threshold in hadronic e^+e^- annihilation energies between 22 and 31.6 GeV ”, *Phys. Lett.* **B 86**, 413 (1979).
12. Ch. Berger, et al., (PLUTO Collaboration), “Evidence for gluon Bremsstrahlung in e^+e^- annihilation at high energies”, *Phys. Lett.* **B 86**, 418 (1979).
13. Ch. Berger, et al., (PLUTO Collaboration), “Measurement of hadron production from photon-photon interactions in cms energy range from 1 – 5 GeV ”, *Phys. Lett.* **B 89**, 120 (1979).
14. Ch. Berger, et al., (PLUTO Collaboration), “Test of QED in the reactions $e^+e^- \rightarrow e^+e^-$ and $e^+e^- \rightarrow \mu^+\mu^-$ at cms energies from 9.4 to 31.6 GeV ”, *Zeitschrift für Physik* **C 4**, 269 (1980).
15. Ch. Berger, et al., (PLUTO Collaboration), “Two particle correlations in e^+e^- annihilation”, *Phys. Lett.* **B 90**, 312 (1980).
16. H. L. Anderson, et al., “A measurement of the nucleon structure functions”, *Phys. Rev.* **D 20**, 2645 (1979).
17. Ch. Berger, et al., (PLUTO Collaboration), “Search for narrow resonances in e^+e^- annihilation at Petra”, *Phys. Lett.* **B 91**, 148 (1980).
18. R. H. Heisterberg, L. Mo, T. A. Nunamaker, K. A. Lefler, A. Skuja, A. Abashian, N. E. Booth, C. C. Chang, C. Li, C. H. Wang, “Measurement of the cross section for $\nu_\mu e^- \rightarrow \nu_\mu e^-$ ”, *Phys. Rev. Lett.* **44**, 635 (1980).
19. C. Tao, H. L. Anderson, et al., “Transverse momentum and angular distributions of hadrons and tests of QCD”, *Phys. Rev. Lett.* **44**, 1726 (1980).
20. Ch. Berger, et al., (PLUTO Collaboration), “Measurement of the reaction $e^+e^- \rightarrow \gamma\gamma$ at CMS energies from 9.4 to 31.6 GeV ”, *Phys. Lett.* **B 94**, 87 (1980).
21. Ch. Berger, et al., (PLUTO Collaboration), “Lepton and hadron pair production in two photon reactions”, *Phys. Lett.* **B 94**, 254 (1980).
22. Ch. Berger, et al., (PLUTO Collaboration), “Multiplicity distributions in e^+e^- annihilation at PETRA energies”, *Phys. Lett.* **B 95**, 313 (1980).
23. R. G. Hicks, H. L. Anderson, et al., “Muon-production of neutral strange hadrons at 225 GeV/c ”, *Phys. Rev. Lett.* **45**, 765 (1980).
24. Ch. Berger, et al., (PLUTO Collaboration), “Inclusive muon-production at c.m. energies 12 to 31.6 GeV ”, *Phys. Rev. Lett.* **45**, 1533 (1980).
25. Ch. Berger, et al., (PLUTO Collaboration), “A study of multi-jet events in e^+e^- annihilation”, *Phys. Lett.* **B 97 (3)**, 459 (1981).
26. Ch. Berger, et al., (PLUTO Collaboration), “Inelastic electron-photon scattering at moderate four momentum transfer”, *Phys. Lett.* **B 99 (3)**, 287 (1981).

27. Ch. Berger, et al., (PLUTO Collaboration), "Energy-energy correlations in e^+e^- annihilation into hadrons", Phys. Lett. **B 99 (3)**, 292 (1981).
28. Ch. Berger, et al., (PLUTO Collaboration), "Lepton pair production and search for a new heavy lepton in e^+e^- jets", Phys. Lett. **B 99 (6)**, 489 (1981).
29. Ch. Berger, et al., (PLUTO Collaboration), "Observation of QCD effects in transverse momenta of e^+e^- jets", Phys. Lett. **B 100**, 351 (1981).
30. Ch. Berger, et al., (PLUTO Collaboration), "Experimental test of Electroweak effects at PETRA energies", Zeitschrift für Physik **C 7**, 289 (1981).
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32. W. D. Shambroom, H. L. Anderson, et al., "Coherent production of rho mesons in muon-scattering at 150 and 100 GeV/c", Phys. Rev. **D 24 (3)**, 775 (1981).
33. J. Proudfoot, H. L. Anderson, et al., "Production ratios for hadrons produced in muon-proton inelastic scattering at 219 GeV/c", Phys. Rev. **D 24 (7)**, 2012 (1981).
34. K. W. Edwards, et al., "An injection system for CHEER", Canadian Journal of Physics, **59 (11)**, 1797 (1981).
35. Ch. Berger, et al., (PLUTO Collaboration), "First measurement of the photon structure function", Phys. Lett. **B 107**, 168 (1981).
36. W. D. Shambroom, H. L. Anderson, et al., "Diffractive production of vector mesons in muon-production scattering at 150 and 100 GeV/c", Phys. Rev. **D 26**, 1 (1982).
37. Ch. Berger, et al., (PLUTO Collaboration), "Energy dependence of jet measures in e^+e^- annihilation", Zeitschrift für Physik **C 12**, 297 (1982).
38. Ch. Berger, et al. (PLUTO Collaboration), "A Study of two photon production of two body final states with invariant mass greater than 2.0 GeV/c²", Nuclear Physics **B 202**, 189 (1982).
39. Ch. Berger, et al., (PLUTO Collaboration), "A measurement of charge properties of quark jets at PETRA", Nuclear Physics **B 124**, 189 (1983).
40. Ch. Berger, et al. (PLUTO Collaboration), "Energy moments for quark jets at PETRA", Zeitschrift für Physik **C 19**, 205 (1983).
41. Ch. Berger, et al., (PLUTO Collaboration), "Measurement of the muon pair asymmetry in e^+e^- annihilation at $\sqrt{s} = 34.7$ GeV", Zeitschrift für Physik **C 21**, 53 (1983).
42. Ch. Berger, et al., (PLUTO Collaboration), "Measurement of transverse momenta in e^+e^- annihilation jets at PETRA", Zeitschrift für Physik **C 22**, 103 (1984).
43. Ch. Berger, et al., (PLUTO Collaboration), "Exclusive production of hadron pairs at large momentum transfers in photon-photon interactions", Physics Letters **B 137**, 267 (1984).
44. Ch. Berger, et al., (PLUTO Collaboration), "Measurement of exclusive η' production in $\gamma\gamma$ interactions", Physics Letters **B 142**, 125 (1984).
45. Ch. Berger, et al., (PLUTO Collaboration), "Measurement of the photon structure function $F_2(x, Q^2)$ ", Physics Letters **B 142**, 111 (1984).
46. Ch. Berger, et al., (PLUTO Collaboration), "Measurement of deep inelastic electron scattering off virtual photons", Physics Letters **B 142**, 119 (1984).
47. Ch. Berger, et al., (PLUTO Collaboration), "Measurement of the total photon-photon cross section for the production of hadrons at small Q^2 ", Physics Letters **B 149**, 421 (1984).
48. Ch. Berger, et al., (PLUTO Collaboration), "The Q^2 and transverse momentum dependence of jet production in photon-photon interactions", Zeitschrift für Physik **C 26**, 191 (1984).
49. Ch. Berger, et al., (PLUTO Collaboration), "Formation of the tensor meson $A(1320)$ in photon-photon interactions", Physics Letters **B 149**, 427 (1984).
50. Ch. Berger, et al., (PLUTO Collaboration), "Pion pair production in photon-photon interactions", Zeitschrift für Physik **C 26**, 199 (1984).

51. Ch. Berger, et al., (PLUTO Collaboration), “A measurement of the Q^2 and W dependence of the $\gamma\gamma$ total cross section for hadron production”, *Zeitschrift für Physik C* **26**, 353 (1984).
52. Ch. Berger, et al., (PLUTO Collaboration), “Sterman-Weinberg jets and energy flow in e^+e^- annihilation at CM energies between 9.4 and 35 GeV ”, *Zeitschrift für Physik C* **27**, 167 (1985).
53. Ch. Berger, et al., (PLUTO Collaboration), “Tagged two photon production of muon pairs”, *Zeitschrift für Physik C* **27**, 249 (1985).
54. Ch. Berger, et al., (PLUTO Collaboration), “Tests of the standard model with lepton pair production in e^+e^- interactions”, *Zeitschrift für Physik C* **27**, 341 (1985).
55. Ch. Berger, et al., (PLUTO Collaboration), “Measurement of tau-lepton production and decays”, *Zeitschrift für Physik C* **28**, 1 (1985).
56. Ch. Berger, et al., (PLUTO Collaboration), “A study of energy-energy correlations in e^+e^- annihilations at $\sqrt{s} = 34.6 GeV$ ”, *Zeitschrift für Physik C* **28**, 365 (1985).
57. Ch. Berger, et al., (PLUTO Collaboration), “A measurement of jet production by interactions of two quasi-real photons”, *Zeitschrift für Physik C* **29**, 499 (1985).
58. Ch. Berger, et al., (PLUTO Collaboration), “Study of the reaction $\gamma\gamma \rightarrow 2\pi^+2\pi^-\pi^0$ and upper limits on the production of $\gamma\gamma \rightarrow \omega\omega$ and $\gamma\gamma \rightarrow \rho^0\omega$ ”, *Zeitschrift für Physik C* **29**, 183 (1985).
59. Ch. Berger, et al., (PLUTO Collaboration), “Evidence for exclusive η_C production in $\gamma\gamma$ interactions”, *Phys. Lett. B* **167**, 120 (1986).
60. W. Zimmerman, V. Hepp, R. Kellogg, M. Schmidt, A. Skuja, A. Backer, C. Gruppen, H. Suhr, G. Zech, N. Magnussen, and H. Meyer, “Helium-propane as drift chamber gas,” *NIM A* **243**, 86 (1986),
61. Ch. Berger, et al., (PLUTO Collaboration), “Measurement and QCD analysis of the photon structure functions $F_2(x, Q^2)$ ”, *Nuclear Physics B* **281**, 365 (1987).
62. Ch. Berger, et al., (PLUTO Collaboration), “Jet production in photon-photon interactions”, *Zeitschrift für Physik C* **33**, 351 (1987).
63. L. N. Hand and A. Skuja, “Macroscopic quantum mechanical contributions to radiative polarization in electron storage rings”, *Phys. Rev. Letters* **59**, 1910 (1987).
64. Ch. Berger, et al., (PLUTO Collaboration), “Tensor meson excitation in the reaction $\gamma\gamma \rightarrow K_S^0 K_S^0$ ”, *Zeitschrift für Physik C* **37**, 329 (1988).
65. Ch. Berger, et al., (PLUTO Collaboration), “Measurement and Analysis of the Reaction $\gamma\gamma \rightarrow \pi^+\pi^-\pi^+\pi^-$ ”, *Zeitschrift für Physik C* **38**, 521 (1988).
66. G. Artusi et al., “Construction of Limited Streamer Tubes for the OPAL Hadron Calorimeter”, *NIM A* **279**, 523 (1989).
67. L. N. Hand and A. Skuja, “The QED Calculation of Spin Orbit Coupling Resonances in Electron Storage Rings”, *Phys. Lett. A* **139**, 291 (1989).
68. M. Z. Akrawy, G. Alexander, J. Allison, P. P. Allport, K. J. Anderson, J. C. Armitage, P. Ashton, A. Astbury, D. Axen, G. Azuelos, J. T. M. Baines, A. H. Ball, J. Banks, G. J. Barker, R. J. Barlow, J. R. Batley, G. Beaudoine, A. Beck, J. Becker, T. Behnke, K. W. Bell, G. Bella, S. Bethke, O. Biebel, U. Binder, I. J. Bloodworth, P. Bock, S. Bougerolle, B. B. Brabson, H. Breuker, R. M. Brown, R. Brun, A. Buijs, H. J. Burckhart, P. Capiluppi, R. K. Carnegie, A. A. Carter, J. R. Carter, C. Y. Chang, D. G. Charlton, J. T. M. Chrin, P. E. L. Clarke, I. Cohen, W. J. Collins, J. E. Conboy, M. Cooper, M. Couch, M. Coupland, M. Cuffiani, S. Dado, G. M. Dallavalle, S. De Jong, P. Debu, M. M. Deninno, A. Dieckmann, M. Dittmar, M. S. Dixit, E. Duchovni, I. P. Duerdoth, D. J. P. Dumas, P. A. Elcombe, P. G. Estabrooks, E. Etzion, F. Fabbri, P. Farthouat, M. Fincke-Keeler, H. M. Fischer, D. G. Fong, C. Fukunaga, A. Gaidot, O. Ganel, J. W. Gary, J. Gascon, N. I. Geddes, C. Geich-Gimbel, S. W. Gensler, F. X. Gentit, G. Giacomelli, V. Gibson, W. R. Gibson, J. D. Gillies, J. Goldberg, M. J. Goodrick, W. Gorn, E. Gross, H. Hagedorn, J. Hagemann, G. G. Hanson, M. Hansroul, C. K. Hargrove, I. Harrus, J. Hart, P. M. Hattersley, M. Hauschild, C. M. Hawkes, E. Hefflin, R. J. Hemingway, R. D. Heuer, J. C. Hill, S. J. Hillier, D. A. Hinshaw, C. Ho, J. D. Hobbs, P. R.

- Hobson, D. Hochman, B. Holl, R. J. Homer, S. R. Hou, C. P. Howarth, R. E. Hughes-Jones, R. Humbert, P. Igo-Kemenes, H. Ihssen, D. C. Imrie, L. Janissen, A. Jawahery, P. W. Jeffreys, H. Jeremie, M. Jimack, M. Jobs, R. W. L. Jones, P. Jovanovic, D. Karlen, K. Kawagoe, T. Kawamoto, R. K. Keeler, R. G. Kellogg, B. W. Kennedy, C. Kleinwort, D. E. Klem, G. Knop, T. Kobayashi, T. P. Kokott, L. Köpke, R. Kowalewski, H. Kreutzmann, J. von Krogh, J. Kroll, M. Kuwano, P. Kyberd, G. D. Lafferty, F. Lamarche, W. J. Larson, J. G. Layter, P. Le Du, P. Leblanc, A. M. Lee, M. H. Lehto, D. Lellouch, P. Lennert, C. Leroy, L. Lessard, S. Levegr, L. Levinson, S. L. Lloyd, F. K. Loebinger, J. M. Lorah, B. Lorazo, M. J. Losty, X. C. Lou, J. Ludwig, M. Mannelli, S. Marcellini, G. Maringer, A. J. Martin, J. P. Martin, T. Mashimo, P. Mättig, U. Maur, T. J. McMahon, J. R. McNutt, F. Meijers, D. Menszner, F. S. Merritt, H. Mes, A. Michelini, R. P. Middleton, G. Mikenberg, J. Mildener, D. J. Miller, C. Milstene, M. Minowa, W. Mohr, C. Moisan, A. Montanari, T. Mori, M. W. Moss, P. G. Murphy, W. J. Murray, B. Nellen, H. H. Nguyen, M. Nozaki, S. W. O’Neale, B. P. O’Neill, F. G. Oakham, F. Odorici, M. Ogg, H. O. Ogren, H. Oh, C. J. Oram, M. J. Oreglia, S. Orito, J. P. Pansart, P. Paschievici, G. N. Patrick, S. J. Pawley, P. Pfister, J. E. Pilcher, J. L. Pinfold, D. E. Plane, P. Poffenberger, B. Poli, A. Pouladdej, E. Prebys, T. W. Pritchard, H. Przysiezna, G. Quast, M. W. Redmond, D. L. Rees, M. Regimbald, K. Riles, C. M. Roach, S. A. Robins, A. Rollnik, J. M. Roney, S. Rossberg, A. M. Rossi, P. Routenburg, K. Runge, O. Runolfsson, D. R. Rust, S. Sanghera, M. Sasaki, A. D. Schaile, O. Schaile, W. Schappert, P. Scharff-Hansen, P. Schenk, H. von der Schmitt, S. Schreiber, J. Schwarz, M. Settles, B. C. Shen, P. Sherwood, R. Shypit, A. Simon, P. Singh, G. P. Siroli, A. Skuja, A. M. Smith, T. J. Smith, G. A. Snow, R. Sobie, R. W. Springer, M. Sproston, K. Stephens, H. E. Stier, R. Stroehmer, D. Strom, H. Takeda, T. Takeshita, P. Taras, S. Tarem, N. J. Thackray, T. Tsukamoto, M. F. Turner, G. Tysarczyk-Niemeyer, D. Van den Plas, R. Van Kooten, G. J. VanDalen, G. Vasseur, C. J. Virtue, A. Wagner, C. Wahl, J. P. Walker, C. P. Ward, D. R. Ward, P. M. Watkins, A. T. Watson, N. K. Watson, M. Weber, S. Weisz, P. S. Wells, N. Wermes, M. Weymann, G. W. Wilson, J. A. Wilson, I. Wingerter, V-H. Winterer, N. C. Wood, S. Wotton, T. R. Wyatt, R. Yaari, Y. Yang, G. Yekutieli, T. Yoshida, I. Zacharov, W. Zeuner, G. T. Zorn (**OPAL** Collaboration), “Measurement of the Z^0 mass and width with the OPAL detector at LEP”, Phys. Lett. **B 231**, 530 (1989). (Also CERN-EP/89-133)
69. M. Z. Akrawy, et al., (OPAL Collaboration), “Measurement of the decay of the Z^0 into lepton pairs”, Phys. Lett. **B 235**, 379 (1990). (Also CERN-EP/89-147).
70. M. Z. Akrawy, et al., (OPAL Collaboration), “A Study of jet production rates and a test of QCD on the Z^0 resonance”, Phys. Lett. **B 235**, 389 (1990). (Also CERN-EP/89-153).
71. M. Z. Akrawy, et al., (OPAL Collaboration), “Mass limit for a standard model Higgs Boson in e^+e^- collisions at LEP”, Phys. Lett. **B 236**, 224 (1990). (Also CERN-EP/89-174).
72. M. Z. Akrawy, et al., (OPAL Collaboration), “A Search for the Top and b' quarks in hadronic Z^0 decays”, Phys. Lett. **B 236**, 364 (1990). (Also CERN-EP/89-154).
73. M. Z. Akrawy, et al., (OPAL Collaboration), “A direct search for new charged heavy leptons at LEP”, Phys. Lett. **B 240**, 250 (1990). (Also CERN-EP/90-09)
74. M. Z. Akrawy, et al., (OPAL Collaboration), “A Search for acoplanar pairs of Leptons or Jets in Z^0 decays: mass limits on Supersymmetric Particles”, Phys. Lett. **B 240**, 261 (1990). (Also CERN-EP/89-176)
75. M. Z. Akrawy, et al., (OPAL Collaboration), “A combined analysis of the hadronic and leptonic decays of the Z^0 ”, Phys. Lett. **B 240**, 497 (1990). (Also CERN-EP/90-27)
76. M. Z. Akrawy, et al., (OPAL Collaboration), “A Study of the reaction $e^+e^- \rightarrow \gamma\gamma$ at LEP”, Phys. Lett. **B 241**, 133 (1990). (Also CERN-EP/90-29)
77. M. Z. Akrawy, et al., (OPAL Collaboration), “A search for Technipions and charged Higgs Bosons at LEP”, Phys. Lett. **B 242**, 299 (1990). (Also CERN-EP/90-38)
78. M. Z. Akrawy, et al., (OPAL Collaboration), “A Measurement of global shape distributions in the hadronic decays of the Z^0 ”, Zeitschrift für Physik **C 47**, 505 (1990). (Also CERN-EP/90-48)
79. M. Z. Akrawy, et al., (OPAL Collaboration), “Search for excited leptons at LEP”, Phys. Lett. **B 244**, 135 (1990). (Also CERN-EP/90-49)

80. M. Z. Akrawy, et al., (OPAL Collaboration), “Evidence for final state photons in multi-hadronic decays of the Z^0 ”, Phys. Lett. **B 246**, 285 (1990). (Also CERN-EP/90-55)
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83. M. Z. Akrawy, et al., (OPAL Collaboration), “Analysis of Z^0 couplings to charged leptons”, Phys. Lett. **B 247**, 458 (1990). (Also CERN-EP/90-81)
84. M. Z. Akrawy, et al., (OPAL Collaboration), “A Study of coherence of soft Gluons in hadron jets”, Phys. Lett. **B 247**, 617 (1990). (Also CERN-EP/90-94)
85. M. Z. Akrawy, et al., (OPAL Collaboration), “A direct search for Neutralino production at LEP”, Phys. Lett. **B 248**, 211 (1990). (Also CERN-EP/90-95)
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87. M. Z. Akrawy, et al., (OPAL Collaboration), “Searches for Neutral Higgs Bosons in e^+e^- collisions at LEP”, Zeitschrift für Physik **C 49**, 1 (1990). (Also CERN-EP/90-100)
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B1. Papers Presented at Scientific Meetings

1. A. Skuja, Invited Talk at Gordon Conference on High Energy Physics, “Review of Inclusive Properties of Particle Production in Muon Scattering at Fermilab”, August 1976.
2. A. Skuja, Invited Talk at the 1980 Winter Meeting of the APS, “Results of the PLUTO Collaboration.
3. A. Skuja, Invited talk at the IEEE 1981 Particle Accelerator Conference (Washington, D. C.), “The Status of CHEER: An ep Collider”.
4. A. Skuja, Invited talk at DESY Workshop on Polarized Electron Acceleration and Storage, “Recent Design of CHEER ep Collider”, March 22-27, 1982.
5. A. Skuja, Convenor Summary Talk at the Relativistic Heavy Ion Collider Workshop, Brookhaven National Laboratory, April 15-19, 1985.
6. A. Skuja, Invited talk at the CERN Workshop on Polarized Electrons at LEP, “QED Calculations of Radiative Polarization in Electron Storage Rings”, March 1987.
7. A. Skuja, Invited talk at the 8th International Symposium on High Energy Spin Physics, “Calculation of Spin-Orbit Resonances in Electron Rings Using QED Techniques (Linear Resonances, Coupling Resonances and Synchrotron Side Bands)”, September 1988.
8. A. Skuja, Invited talk at the 3rd International Conference on the Physics Potential & development of $\mu^+\mu^-$ Colliders: “The CMS Experiment at the LHC” (December, 1995)

B2. Colloquia, Seminars, and Special Lectures

1. A. Skuja, Seminar at Johns Hopkins University, “Deep Inelastic Muon Scattering at Fermilab”, November 1976.
2. A. Skuja, Seminar at Princeton University, “Recent Results from PETRA”, April 1979.
3. A. Skuja, Seminar at Carnegie-Mellon University, “Recent Results of the PLUTO Collaboration”, February 1980.
4. A. Skuja, Seminar at McGill University, “Two-Photon Physics at PETRA”, March 1980.
5. A. Skuja, Seminar at the Chinese University of Hong Kong, “Recent Experimental Evidence for Gluons, Quarks, and Heavy Leptons in e^+e^- Annihilations”, May 1980.
6. A. Skuja, Seminar at McGill University, “High Energy Physics at Future Accelerators”, March 1981.

7. A. Skuja, Seminar at University of Maryland, "Report on Annual Meeting of the Division of Particles and Fields at Santa Cruz", September 1981.
8. A. Skuja, Special presentation to the General Scientific Council of DESY, "Two Photon Physics at PETRA", June 1983 .
9. A. Skuja, Seminar at Rutherford Laboratory (UK), "Recent Results on $\gamma\gamma$ physics from the PLUTO detector" June 1983.
10. A. Skuja, Seminar at UC (London, UK), "Recent Results on $\gamma\gamma$ physics from the PLUTO detector", June 1983.
11. A. Skuja, Seminar at Oxford University (UK), "Recent Results on $\gamma\gamma$ physics from the PLUTO detector", June 1983.
12. A. Skuja, Seminar at the University of Maryland, "Modification of the PLUTO detector to measure Double Beta Decay" Feb. 1984.
13. A. Skuja, Seminar at Universität Bonn, "Calorimetry with plastic proportional and streamer tubes as active elements", July 1984.
14. A. Skuja, Seminar at McGill University, "A search for point-like photons", March 1986.
15. A. Skuja, Seminar at University of Toronto, "A search for point-like photons", March 1986.
16. A. Skuja, Seminar at Argonne National Lab., "Recent Results from OPAL", Oct. 1989.
17. A. Skuja, Colloquium at University of Maryland, " Z^0 Decays: All in the Family? (Recent Results from OPAL)", Jan. 1990.
18. A. Skuja, Seminar at University of Liverpool (UK), "The Search for the Standard Higgs (Recent Results from OPAL)", Dec. 1990.
19. A. Skuja, Colloquium at the University of British Columbia, "Probing the nucleus via deep inelastic scattering of muons (Experiment E665 at Fermilab)", April, 1995.
20. A. Skuja, Seminar at the University of British Columbia, "Calculating radiative effects in electron storage rings using QED" April, 1995.
21. A. Skuja, Seminar at University of Maryland, "Report on the Beijing International Lepton Photon Symposium", Sept. 1995.
22. A. Skuja, Colloquium at Cornell University, "The Large Hadron Collider at CERN and the CMS Experiment", April, 1997.
23. A. Skuja, Colloquium at Chandigarh University, "The Large Hadron Collider and the CMS Experiment", December, 2000.
24. A. Skuja, Seminar at Kiev University, "Status of Experimental High Energy Physics", June, 2001 (3 hour seminar).

C. Books or Contributions to Edited Books

1. A. Skuja, Contributed articles in Fermilab 1976 Summer Study Report (J. Lach, editor).
 - (a) L. W. Mo, P. Schlein, A. Skuja, "Proposal to Search for Heavy Boson, Heavy Leptons, and Charmed Particles at the SSR", Vol. 1, p. 437.
 - (b) J. Allaby, et al., "Report of the Neutrino Area Study Group", Vol. 2, p. 1.
 - (c) C. Baltay et al., "Separate Targeting for Neutrino Muon and Hadron Beams in Neutrino Area", Vol. 2, p. 19.
 - (d) A. Skuja, S. Loken, A. Melissinos, "Muon Physics at Fermilab at 1 TeV", Vol. 2, p. 133.
 - (e) A. Skuja, "Upgrading of the Existing Fermilab Muon Beam to 800 GeV", Vol. 2, p. 159.
2. A. Skuja, contributed article to Resumé of the Workshop on "Polarized Electron Acceleration and Storage" entitled "Recent Design of CHEER for ep Collider", PT10-18.
3. A. Skuja and D. H. White, contributed article to RHIC Workshop report "Two Photon Physics at RHIC", p. 289.

D. Papers submitted but not accepted for publication as yet.

1. G. Abbiendi et al., (OPAL Collaboration) “Inclusive Analysis of the b Quark Fragmentation Function in Z Decays at LEP”, Submitted to Eur. Phys. J. C (CERN-EP-2002-051)
2. G. Abbiendi et al., (OPAL Collaboration) “Measurement of the Cross-Section for the Process $\gamma\gamma \rightarrow P\bar{P}$ at $\sqrt{s_{ee}} = 183 - 189 GeV$ at LEP”, Submitted to Eur. Phys. J. C (CERN-EP-2002-056)
3. G. Abbiendi et al., (OPAL Collaboration) “Search for Nearly Mass Degenerate Charginos and Neutralinos at LEP”, Submitted to Eur. Phys. J. C (CERN-EP-2002-063)
4. G. Abbiendi et al., (OPAL Collaboration) “A Measurement of semileptonic B Decays to Narrow Orbitally-Excited Charm Mesons”, Submitted to Eur. Phys. J. C (CERN-EP-2002-094)
5. G. Abbiendi et al., (OPAL Collaboration) “Di-Jet Production in Photon-Photon Collisions at $\sqrt{s_{ee}}$ from 189 to 209 GeV”, Submitted to Eur. Phys. J. C (CERN-EP-2002-093)
7. G. Abbiendi et al., (OPAL Collaboration) “Bose-Einstein Correlations of π^0 pairs from Hadronic Z^0 Decays”, Submitted to Phys. Lett. B (CERN-EP-2003-005)
8. G. Abbiendi et al., (OPAL Collaboration) “Test of Non-commutative QED in the process $e^+e^- \rightarrow \gamma\gamma$ at LEP”, Submitted to Phys. Lett. B (CERN-EP-2003-010)

E. Technical Reports

1. A. Skuja, “Di-pion production in the reaction $\pi^-p \rightarrow \pi^0\pi^0n$ between 1.6 and 2.4 GeV/c” (Thesis), Lawrence Berkeley Laboratory Report **LBL-378**, 1972.
2. A. Skuja, Fermilab Technical Memo **TM469/2200**, Feb. 15, 1974 “Summary of the Triplet Train”.
3. A. Skuja and R. Stefanski, Fermilab Technical Memo **TM635/2252** Sept. 12, 1975 “Neutrino Decay Pipe Triplet”.
4. A. Skuja and R. Stefanski, Fermilab Technical memo **TM645/2200** Feb. 25, 1976 “The 300 GeV/c Triplet Train”.
5. A. Skuja, Canadian High Energy Electron Ring Technical Note, **CHEER-11**, July 21, 1980 “CHEER Injection System”.
6. J. McKeown, L. G. Greenius, R. Servranckx, A. Skuja, “HERA Advisory Committee Report to the Institute of Particle Physics”, (1983).
7. The OPAL Collaboration, “The OPAL Detector: Technical Proposal” CERN/LEP/83-4, LEPC/P 3, (1983).
8. L. N. Hand and A. Skuja, “Optimization of Polarization in Electron Storage Rings with Dipole Rotators”, HERA 85-18 (1985).
9. M. Z. Akrawy, et al., (OPAL Collaboration), “A Search for New Charged Heavy Leptons with the OPAL Detector at LEP”, CERN-EP/89-175.
10. Solenoidal Detector Collaboration, “Technical Design of a Detector to be Operated at the Superconducting Super Collider”, SDC-92-201 and SSCL-SR-1215, (1992).
11. A. Ball, F. Desrosier, M. Garza, J. Hershey, M. Murbach, A. Skuja, “The SDC Forward Muon System and the Track Measurement Stations”, SSCL report SDT – 000436 (1994)
12. M. Murbach, M. Garza, F. Desrosier, A. Skuja, “Modeling and Finite Element Analysis of the SDC Forward Muon System Station Frames”, SSCL report SDT – 000437 (1994)
13. F. Desrosier, A. Ball, M. Garza, P. Goldey, M. Murbach, A. Skuja “Small Pre-prototype of the SDC FMS Drift Tube Octant Module”, SSCL report SDT – 000438 (1994)
14. The LEP Electroweak Working Group and The LEP Collaborations : ALEPH, DELPHI, L3, OPAL “Combined Preliminary Data on Z Parameters from the LEP Experiments and Constraints on the Standard Model”, CERN-PPE/94-187 (25th November 94).

15. The CMS Collaboration, “The Compact Muon Solenoid Technical Proposal”, CERN/ LHCC 94-38, LHCC/P1, (1994)
16. A. Ball, R. Bard, M. Berg, J. Cohen, J. Colmar, F. Desrosier, D. Fong, M. Garza, P. Goldey, N. Hadley, A. Lyon, W. Miller, M. Murbach, L. Schaffer, A. Skuja, P. Tamburello, G.T. Zorn, “Studies of Drift Tubes with Simple Field Shaping Electrodes for the SDC Forward Muon System”, SSCL report SDT – 000457 (1995)
17. ALEPH, DELPHI, L3, OPAL (The LEP Collaborations and the LEP Working Group), “A Combination of Preliminary LEP Electroweak Measurements and Constraints on the Standard Model”, CERN-PPE/95-172 (24th November 1995).
18. ALEPH, DELPHI, L3, OPAL (The LEP Collaborations and the LEP Working Group), “A Combination of Preliminary Electroweak Measurements and Constraints on the Standard Model”, CERN-PPE/96-183 (6th December 1996).
19. The CMS Collaboration, “CMS: The Hadron Calorimeter Technical Design Report” CERN/ LHCC 97-31, CMS TDR 2, 20 June 1997.
20. The LEP Working Group (ALEPH, DELPHI, L3 and OPAL), “Lower Bound for the Standard Model Higgs Boson Mass from Combining the Results of the four LEP Experiments”, (CERN-EP/98-046).
21. The LEP Collaborations ALEPH, DELPHI, L3 and OPAL, the LEP Electroweak Working Group and, SLD Heavy Flavour and Electroweak Groups, “A Combination of Preliminary Electroweak Measurements and Constraints on the Standard Model”, 28th February 2001 (CERN-EP-2001-021)
22. ALEPH, CDF, DELPHI, L3, OPAL, SLD “Combined results on b-hadron production rates and decay properties” 26th June 2001 CERN-EP-2001-050
23. The LEP Collaborations ALEPH, DELPHI, L3, OPAL, the LEP Electroweak Working Group, and the SLD Heavy Flavour and Electroweak Groups “A Combination of Preliminary Electroweak Measurements and Constraints on the Standard Model” 17th December 2001 CERN-EP-2001-098

F. Papers published (in their entirety, not as abstracts) in proceedings of scientific meetings and conferences.

1. Proceedings of the XVIII International Conference on High Energy Physics, Tbilisi, July and August 1976.
 - (a) H. L. Anderson, et al., “New Results in Muon Production of Hadrons at High Energies”.
 - (b) H. L. Anderson, et al., “Diffractive Production of Rho Mesons by 150 GeV Muons”.
 - (c) H. L. Anderson, et al., “Measurement of the Nuclear Structure Function in Muon Inelastic Scattering at 100 and 150 GeV/c”.
2. Proceedings of the XIX International Conference on High Energy Physics, Tokyo, Japan, August 23-30, 1978.
 - (a) H. L. Anderson, et al., “Muon Scattering at 219 GeV/c”.
 - (b) B. A. Gordon, et al., “Hadron Production from Muon Scattering at 219 GeV/c”.
3. R. H. Heisterberg, et al., “Measurement of the Cross Section $\nu_\mu e^- \rightarrow \nu_\mu e^-$ ” . Proceedings of the 1979 International Symposium on Lepton and Photon Interactions at High Energies, August 23-29, 1979, Batavia, Illinois, USA.
4. S. Conetti, K. W. Edwards, R. S. Hemingway, D. E. Johnson, J. McKeown, F. Mills, B. Norman, S. Scriber, R. Servranckx, A. Skuja, “CHEER (Canadian High Energy Electron Ring)” . Proceedings of the XI International Conference on High Energy Accelerators, CERN, 7-11 July 1980.
5. L. N. Hand and A. Skuja, “Macroscopic Quantum-Mechanical Contributions to Radiative Polarization”, Workshop on Polarization at LEP, CERN, 9-11 November 1987.

6. L. N. Hand and A. Skuja, "Linear and Nonlinear Effects in the Radiative Polarization in Electron Storage Rings: Is Quantum Mechanics Really Necessary ?", Proceedings of the 1989 Adriatico Research Conference: Spin and Polarization Dynamics in Nuclear & Particle Physics, World Scientific, 185 (1990).
7. A. Skuja and L. N. Hand, "Calculation of linear and non-linear spin-orbit resonance effects in the radiative polarization of Electrons in storage rings using QED techniques", Proceedings of High Energy Spin Physics: Eighth International Symposium, Minneapolis, MN (AIP Conference Proceedings No. **187**), 975 (1988)

IV. Contracts and Grants

DOE High Energy Physics Grants. I am the Principal Investigator of the current Maryland HEP Program. We were awarded a Five Year Grant for the period 1991-96, which was funded at the level of \$ 7,786,800 from the so-called DOE/HEP base program. I (and the other members of the HEP group) were successful in renewing the HEP grant for another five years (1997-2002) at a nominal level of \$ 6,850,000. I was also P.I. for additional and supplemental grants for the experimental programs at the SSC and now for the LHC.

A summary of grants since 1991 follows:

2003	DOE Base Program (Skuja)	\$1,625,000	(2002/2003 HEP Grant)
	DOE/LHC (Skuja/Baden)	\$1,361,257	(DOE/LHC/CMS)
2002	DOE Base Program (Skuja)	\$1,620,000	(2001/2002 HEP Grant)
	DOE/LHC (Skuja/Baden)	\$1,361,257	(DOE/LHC/CMS)
2001	DOE Base Program (Skuja)	\$1,660,000	(2000/2001 HEP Grant)
	DOE/LHC (Skuja/Baden)	\$179,000	(DOE/LHC/CMS)
2000	DOE Base Program (Skuja)	\$1,695,000	(1999/2000 HEP Grant)
	DOE/LHC (Skuja/Baden)	\$320,000	(DOE/LHC/CMS)
1999	DOE Base Program (Skuja)	\$1,526,000	(1998/99 HEP Grant)
	DOE/LHC (Skuja)	\$130,000	(DOE/LHC/CMS)
1998	DOE Base Program (Skuja)	\$1,623,000	(1997/98 HEP Grant)
	DOE/LHC (Skuja)	\$240,000	(DOE/LHC/CMS)
1997	DOE Base Program (Skuja)	\$1,435,000	(1996/97 HEP Grant)
	DOE/LHC (Skuja)	\$175,000	(DOE/LHC/CMS)
1996	DOE Base Program (Skuja)	\$1,547,000	(1995/96 HEP Grant)
	DOE/LHC (Skuja)	\$120,300	(DOE/LHC/CMS)
1995	DOE Base Program (Skuja)	\$1,572,400	(1994/95 HEP Grant)
	DOE BP Supplement (Skuja)	\$80,000	(DOE/LHC)
1994	DOE Base Program (Skuja)	\$1,592,400	(1993/94 HEP Grant)
	DOE/SSC (Skuja)	\$125,000	(SSC closeout)
	DOE BP Supplement (Skuja)	\$52,000	(SSC closeout)
1993	DOE Base Program (Skuja)	\$1,632,000	(1992/93 HEP Grant)
	DOE/SSC (Skuja)	\$355,000	
	TNRLC (Skuja)	\$350,000	(Texas/SSC 1993/94)
1992	DOE Base Program (Skuja/Snow)	\$1,443,000	(1991/92 HEP Grant)
	DOE/SSC (Skuja)	\$150,000	
1991	DOE Base Program (Skuja/Snow)	\$1,483,000	(1990/91 HEP Grant)
	DOE/SSC (Skuja)	\$70,000	

V. Awards & Honors

University of Maryland GRB Semester Research Award - Spring 1991

European Physical Society 1995 Special High Energy and Particle Physics Prize (as a member of the PLUTO collaboration) – July, 1995

Fellow of the American Physical Society

VI. Experience Other than Higher Education:

None

VII. Professional Activities:

American Physical Society
Canadian National Science and Engineering Research Council,
Grant Selection Board (1986-88)
Referee for DOE and NSF contracts and grants
Referee for Physical Review and Physical Review Letters

VIII. University Service:

Honors Committee of Phys. Dept. 1978-79
Freshman Advisor 1978-79
Physics Dept. Colloquium Committee, Chairman-Spring 1977, 1978
Health and Safety Committee 1977-78, 1978-79, 1979-80
General Committee on Student Affairs 1980-1981
Qualifying Exam Committee (1980-1982)
Physics and Astronomy Chairman Search Committee (1982)
Qualifying Exam Committee 1984, 1985 (Chairman Fall '84, Spring '85)
Physics Council (84-86)
General Committee on Graduate Education in Physics (84-85)
Physics Council, Chairman (1985-86)
Physics Executive Council, Chairman (1985-86)
Committee on Appointments, Promotions and Tenure (APT) (1985-87)
Associate Chairman, Dept. of Physics (Fall 1986 - Fall 1988)
UMCP Biological and Chemical Safety Committee (Fall 1986 - 1989)
Committee on Appointments, Promotions and Tenure (APT) (1993-97, chair 96/97)
Salary Committee (1993-95)
Priority Committee (1994-97, chair 96/97)
Department Committee on teaching Laboratories (97/99)
Extended Qualifying Exam Committee (2001/2002)
Salary Committee (2002-2006)
Committee on Appointments, Promotions and Tenure (APT) (2002-2005)