

CV: Stanley J. Brodsky

Stanley J. Brodsky

Professor, Particle Physics and Astrophysics
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Phone: (650) 926-2644
Group: Theoretical Physics

1 Education

B.S., 1961, Physics; Ph.D., 1964, University of Minnesota.

2 Professional Academic History

Research Associate, Columbia University, 1964-1966; Research Associate, SLAC, Stanford, 1966-1968; Permanent Staff, Theoretical Physics, SLAC, Stanford, 1968-1975; Associate Professor, SLAC, Stanford, 1975-1976; Professor, SLAC, Stanford, 1976-present; Head Theoretical Physics Group, SLAC, 1996-2002.

3 Awards and Honors

Visiting Professor, Natural Sciences, Institute for Advanced Study, Princeton University, 1982; AVCO Visiting Professor, Cornell University, 1985; Foreign Scientific Member and External Scientific Director, Max Planck Institute for Nuclear Physics, Heidelberg, 1989-present; Alexander von Humboldt Distinguished U.S. Senior Scientist Award, 1987; Fellow, American Physical Society; Associate Editor, Nuclear Physics B and Nuclear Physics B Proceedings Supplements; Member, Editorial Board, Progress in Particle and Nuclear Physics; President and Co-Founder of the International Light-Cone Advisory Committee; International Advisory Committee, International Workshops on Photon-Photon Collisions; Member, Program Advisory Committee, Brookhaven National Laboratory, 2003-2006. Visiting Professor, Physics Department, College of William and Mary, 2003; Distinguished Fellow at the Thomas Jefferson Laboratory, 2003. Member, Program Advisory Committee, Gesellschaft für Schwerionenforschung mbH (GSI), Darmstadt, Germany 2004-present. Member, Scientific Advisory Board of the Hadron Physics Integrated Infrastructure Initiative of the European Commission, 2006-present. Sackler Lecturer, Tel Aviv University, 2006. Recipient of the 2007 J. J. Sakurai Prize in Theoretical Physics awarded by the American Physical Society.

4 Research Areas

High-energy theoretical physics, especially the quark-gluon structure of hadrons and novel effects in quantum chromodynamics; fundamental problems in atomic, nuclear, and high energy physics; precision tests of quantum electrodynamics, light-front quantization; nonperturbative and perturbative methods in quantum field theory; applications of AdS/CFT to Quantum Chromodynamics.

5 Background

Stan Brodsky received his Bachelor of Physics degree in 1961 and his Ph.D. in 1964 from the University of Minnesota. His Ph.D. advisor was Professor Donald Yennie, one of the leading theorists in precision atomic

physics and quantum electrodynamics. Brodsky's thesis was on the higher order QED radiative corrections to the hydrogen hyperfine splitting. His first academic position was a research associateship in theoretical physics with Professor T.D. Lee at Columbia University in 1964-1966. In 1966 he joined the Stanford Linear Accelerator Center as a research associate in Professor Sidney Drell's theoretical physics group. Brodsky became a permanent staff member in 1968, and in 1976 he was promoted to Professor at the Stanford Linear Accelerator Center, Stanford University. He was head of the SLAC theory group from 1996-2002.

Brodsky has held a number of visiting faculty positions, including the AVCO Professorship at Cornell University in 1970, Visiting Professorships in Cambridge University in 1974, the Weizmann Institute in 1978 and 1994, the Institute of Advanced Study in 1980, the University of California at Santa Barbara in 1978 and 1981, the University of Melbourne in 1987, the University of Heidelberg and the Max Planck Institute for Nuclear Physics in Heidelberg in 1987, the University of Helsinki in 1992, the University of Federico Santa Maria, Valparaiso, Chile, in 1994, the College of William and Mary in 2003, and Tel Aviv University in 2006. He is a Foreign Scientific Member and External Scientific Director of the Max Planck Institute for Nuclear Physics, Heidelberg. He spent his sabbatical in 2007-2008 as a visiting professor at the Yang Institute of Theoretical Physics at the State University of New York in Stony Brook, Brookhaven National Laboratory, and the Institute for Particle Physics Phenomenology in Durham, England. He also has been offered the Hans Christian Anderson guest professorship at Southern Denmark University.

In 1987, Brodsky was awarded the Senior U.S. Distinguished Scientist Award from the Alexander von Humboldt Foundation. He is a Fellow of the American Physical Society. In 2003 he was appointed to be the first Distinguished Fellow at the Thomas Jefferson Laboratory. He was awarded the 2007 J. J. Sakurai Prize in high energy theoretical physics from the American Physical Society. He has also been named an Outstanding Referee of the American Physical Society.

Brodsky has been on the scientific and program advisory committees for Argonne National Laboratory, MIT Bates Laboratory, Lawrence Berkeley Laboratory, Cornell Laboratory of Nuclear Science, Fermilab, Brookhaven, SLAC, the Max Planck Institute for Nuclear Physics in Heidelberg, and the Gesellschaft für Schwerionenforschung mbH (GSI), Darmstadt, Germany. He was a member of the Committee on Fundamental Constants of the National Research Council and the National Academy of Sciences in 1972-1975, the HEPAP Subpanel on Future Facilities in 1984, the Nuclear Science Advisory Committee Subcommittee on Electromagnetic Interactions, 1981-1982, the Scientific Advisory Panel of the Southeastern University Research Association, Inc., 1981-1983, and the DOE Nuclear Science Review Board of the Jefferson Laboratory 12 GeV Upgrade in 2005. He was a member of the Editorial Board of the Physical Review D 1985-1988, and since 1987 he has been a Member of the Board of Associate Editors of Nuclear Physics B. He is also a member of the Scientific Advisory Board of the Hadron Physics Integrated Infrastructure Initiative of the European Commission, the Advisory Committee for the Nuclear Theory Center at Indiana University, and the Scientific Advisory Board for the proposed electron-proton collider (LHeC) at CERN. He has recently been named as member of the science advisory panel for the PANDA collaboration at GSI. He is a co-founder and former president of the International Light-Cone Advisory Committee (ILCAC). He was elected in 2008 as Vice-Chair of the Hadron Physics Group of the American Physical Society.

Brodsky's research areas span many areas of high-energy and nuclear theoretical physics, especially the quark-gluon structure of hadrons and novel effects in quantum chromodynamics; fundamental problems in atomic, nuclear, and high energy physics; precision tests of quantum electrodynamics, light-front quantization; nonperturbative and perturbative methods in quantum field theory. In 1970 Brodsky and his collaborators, Tom Kinoshita and Hidezumi Terazawa, initiated the field of two-photon processes. In 1973 Brodsky and G. Farrar developed dimensional counting rules for hard exclusive processes, extending earlier work on the quark interchange model by Brodsky, Blankenbecler, and Gunion. In 1979, Brodsky and G. P. Lepage derived the theory of hard exclusive processes in QCD, including factorization theorems and evolution equations for meson and baryon distribution amplitudes. In 1985 Brodsky and H. C. Pauli developed the discretized light-cone quantization (DLCQ) method for solving quantum field theories. Brodsky has also contributed to precision tests of quantum electrodynamics and novel effects in atomic physics, including anti-hydrogen production and radiation amplitude null zones. Brodsky and his collaborators have also developed the theory underlying novel QCD properties such as color transparency, hidden color, reduced nuclear amplitudes, and intrinsic charm; theoretical tools such as light-front wavefunctions, commensurate scale relations, renormalization scale-setting, and jet measures; and applications of QCD to deeply virtual Compton scattering, diffractive deep inelastic scattering and other hard diffractive phenomena, shadowing and antishadowing of nuclear reactions, high energy photon-photon collisions, leading-twist single-spin asymmetries, and higher twist reactions.

More recently Brodsky has been collaborating with G. F. de Teramond on the insights into the QCD

spectra and hadron light-front wavefunctions which can be obtained from the AdS/CFT correspondence. He has contributed to a number of books and over 480 scientific articles. In addition to wonderful collaborators, he has had a number of outstanding students at Stanford who now have academic positions, including G. Peter Lepage (Cornell), Jonathan Sapirstein (Notre Dame), Kent Hornbostel (Southern Methodist University), and Joseph Kiskis (University of California at Davis). Stan Brodsky is married to Judith Ellen Brodsky. They have three children, Stephen, David, and Jyoti.

6 Publications

1. “Dynamic versus Static Hadronic Structure Functions”

S. J. Brodsky

arXiv:0901.0781 [hep-ph]

SLAC-PUB-13507(2009)

Invited talk at 18th International Conference on Particles and Nuclei (PANIC 08), Eilat, Israel, 9-14 Nov 2008

2. “Light-Front Holography and QCD Hadronization at the Amplitude Level”

S. J. Brodsky and G. F. de Teramond

arXiv:0901.0770 [hep-ph]

SLAC-PUB-13504(2009)

Presented at 18th International Conference on Particles and Nuclei (PANIC 08), Eilat, Israel, 9-14 Nov 2008

3. “Light-Front Holography and Novel Effects in QCD”

S. J. Brodsky and G. F. de Teramond

arXiv:0812.3192 [hep-ph]

SLAC-PUB-13491(2008)

4. “Recent progress in Hamiltonian light-front QCD”

J. P. Vary *et al.*

arXiv:0812.1819 [nucl-th]

SLAC-PUB-13460(2008)

Invited talk at Light Cone 2008: Relativistic Nuclear and Particle Physics (LC2008), Mulhouse, France, 7-11 Jul 2008

5. “Local Two-Photon Couplings and the J=0 Fixed Pole in Real and Virtual Compton Scattering”

S. J. Brodsky, F. J. Llanes-Estrada and A. P. Szczepaniak

arXiv:0812.0395 [hep-ph]

SLAC-PUB-13478(2008) (Submitted to Physical Review D)

6. “Recent progress in Hamiltonian light-front QCD”

J. Vary *et al.*

PoS LC2008, 040 (2008)

Presented at Light Cone 2008: Relativistic Nuclear and Particle Physics (LC2008), Mulhouse, France, 7-11 Jul 2008

7. “Dynamic versus Static Structure Functions and Novel Diffractive Effects in QCD”

S. J. Brodsky

arXiv:0811.0875 [hep-ph]

SLAC-PUB-13454(2008)

Invited talk at Diffraction 2008: International Workshop on Diffraction in High Energy Physics, La Londe-les-Maures, France, 9-14 Sep 2008

8. “AdS/QCD and its Holographic Light-Front Partonic Representation”

G. F. de Teramond and S. J. Brodsky

arXiv:0811.0642 [hep-ph]

SLAC-PUB-13457(2008)

Presented at Diffraction 2008: International Workshop on Diffraction in High Energy Physics, La Londe-les-Maures, France, 9-14 Sep 2008

9. **“The conformal template and new perspectives for quantum chromodynamics”**
S. J. Brodsky
Prog. Theor. Phys. Suppl. **167**, 76 (2007)
10. **“The AdS/CFT Correspondence and Light-Front QCD”**
S. J. Brodsky and G. F. de Teramond
PoS **LC2008**, 044 (2008) [arXiv:0810.1876 [hep-ph]]
Presented at Light Cone 2008: Relativistic Nuclear and Particle Physics (LC2008), Mulhouse, France, 7-11 Jul 2008
11. **“Light-Front Holography: A First Approximation to QCD”**
G. F. de Teramond and S. J. Brodsky
Phys. Rev. Lett. **102**, 081601 (2009) [arXiv:0809.4899 [hep-ph]]
12. **“What HERA may provide ?”**
H. Jung *et al.*
arXiv:0809.0549 [hep-ph]
DESY-08-125(2008)
Contributed to 16th International Workshop on Deep Inelastic Scattering and Related Subjects (DIS 2008), London, England, 7-11 Apr 2008
13. **“Novel QCD Phenomena at Electron-Proton Colliders”**
S. J. Brodsky
SLAC-PUB-13281(2008)
Invited talk at 16th International Workshop on Deep Inelastic Scattering and Related Subjects (DIS 2008), London, England, 7-11 Apr 2008
14. **“Light-Front Holography and Hadronization at the Amplitude Level”**
S. J. Brodsky, G. de Teramond and R. Shrock
AIP Conf. Proc. **1056**, 3 (2008) [arXiv:0807.2484 [hep-ph]]
Invited talk at 6th International Conference on Perspectives in Hadronic Physics (Hadron 08), Trieste, Italy, 12-16 May 2008
15. **“Maximum Wavelength of Confined Quarks and Gluons and Properties of Quantum Chromodynamics”**
S. J. Brodsky and R. Shrock
Phys. Lett. B **666**, 95 (2008) [arXiv:0806.1535 [hep-th]]
16. **“The Baryon Anomaly: Evidence Color Transparency and Direct Hadron Production at RHIC”**
S. J. Brodsky and A. Sickles
Phys. Lett. B **668**, 111 (2008) [arXiv:0804.4608 [hep-ph]]
17. **“Light-Front Holography and AdS/QCD Correspondence”**
S. J. Brodsky and G. F. de Teramond
arXiv:0804.3562 [hep-ph]
SLAC-PUB-13220(2008)
Presented at QCD Down Under II, Auckland , New Zealand, 17-19 Jan 2008
18. **“Light-Front Dynamics and AdS/QCD Correspondence: Gravitational Form Factors of Composite Hadrons”**
S. J. Brodsky and G. F. de Teramond
Phys. Rev. D **78**, 025032 (2008) [arXiv:0804.0452 [hep-ph]]
19. **“Standard-Model Condensates and the Cosmological Constant”**
S. J. Brodsky and R. Shrock
arXiv:0803.2554 [hep-th]
SLAC-PUB-13166(2008) (Submitted to Phys.Lett.B.)
20. **“On Condensates in Strongly Coupled Gauge Theories”**
S. J. Brodsky and R. Shrock

- arXiv:0803.2541 [hep-th]
SLAC-PUB-13154(2008) (Submitted to Phys.Lett.B.)
21. **“Evidence for Color Transparency and Direct Hadron Production at RHIC”**
S. Brodsky
SLAC-PUB-13082(2008) (Submitted to RHIC News)
 22. **“AdS/CFT and Light-Front QCD”**
S. J. Brodsky and G. F. de Teramond
arXiv:0802.0514 [hep-ph]
SLAC-PUB-13107(2008)
Invited talk at International School of Subnuclear Physics: 45th Course: Searching for the “Totally Unexpected” in the LHC Era, Erice, Sicily, Italy, 29 Aug - 7 Sep 2007
 23. **“ILC Reference Design Report Volume 4 - Detectors”**
T. (.). Behnke *et al.* [ILC Collaboration]
arXiv:0712.2356 [physics.ins-det]
FERMILAB-APC(2007)
 24. **“ILC Reference Design Report Volume 1 - Executive Summary”**
J. (.). Brau *et al.* [ILC Collaboration]
arXiv:0712.1950 [physics.acc-ph]
FERMILAB-APC(2007)
 25. **“Illuminating the $1/x$ moment of parton distribution functions”**
S. J. Brodsky, F. J. Llanes-Estrada and A. P. Szczepaniak
In the Proceedings of 11th International Conference on Meson-Nucleon Physics and the Structure of the Nucleon (MENU 2007), Julich, Germany, 10-14 Sep 2007, pp 149 [arXiv:0710.0981 [nucl-th]]
SLAC-PUB-12857(2007)
Invited talk at 11th International Conference on Meson-Nucleon Physics and the Structure of the Nucleon (MENU 2007), Julich, Germany, 10-14 Sep 2007
 26. **“Novel QCD Effects from Initial and Final State Interactions”**
S. J. Brodsky
arXiv:0709.2229 [hep-ph]
SLAC-PUB-12805(2007)
 27. **“AdS/CFT and Exclusive Processes in QCD”**
S. J. Brodsky and G. F. de Teramond
arXiv:0709.2072 [hep-ph]
SLAC-PUB-12804(2007)
 28. **“Higgs Hadroproduction at Large Feynman x ”**
S. J. Brodsky, A. S. Goldhaber, B. Z. Kopeliovich and I. Schmidt
Nucl. Phys. B **807**, 334 (2009) [arXiv:0707.4658 [hep-ph]]
 29. **“Light-Front Dynamics and AdS/QCD Correspondence: The Pion Form Factor in the Space- and Time-Like Regions”**
S. J. Brodsky and G. F. de Teramond
Phys. Rev. D **77**, 056007 (2008) [arXiv:0707.3859 [hep-ph]]
 30. **“Novel QCD Phenomena”**
S. J. Brodsky
PoS **LHC07**, 002 (2007) [arXiv:0707.2643 [hep-ph]]
Invited talk at Workshop on High $P(T)$ Physics at LHC (LHC07), Jyväskylä, Finland, 23-27 Mar 2007
 31. **“Hadron production in $e^+ e^-$ collisions - one- and two-photon processes”**
S. J. Brodsky
eConf **C720906V2**, 19 (1972)

32. **“Inclusive processes at high transverse momentum”**
R. Blankenbecler, S. J. Brodsky and J. F. Gunion
eConf **C720906V1**, 504 (1972)
33. **“Novel Tests of QCD at SuperB”**
S. Brodsky
Slides presented at 3rd Workshop on Super Flavor Factory based on Linear Collider Technology (Super B III), Menlo Park, California, 14- 16 Jun 2006
34. **“The renormalization scale problem”**
S. Brodsky
Presented at LoopFest V: Radiative Corrections for the International Linear Collider: Multi-loops and Multi-legs, SLAC, Menlo Park, California, 19-21 Jun 2006
35. **“SuperB: A High-Luminosity Asymmetric e+ e- Super Flavor Factory. Conceptual Design Report”**
M. Bona *et al.*
arXiv:0709.0451 [hep-ex]
SLAC-R-856(2007)
36. **“Effect of orbital angular momentum on valence-quark helicity distributions”**
H. Avakian, S. J. Brodsky, A. Deur and F. Yuan
Phys. Rev. Lett. **99**, 082001 (2007) [arXiv:0705.1553 [hep-ph]]
37. **“The Conformal Template and New Perspectives for Quantum Chromodynamics”**
S. J. Brodsky
arXiv:hep-ph/0703109
SLAC-PUB-12381(2007)
Invited talk at International Symposium on the Jubilee of the Sakata Models (pnLambda50), Nagoya, Japan, 25-26 Nov 2006
38. **“AdS/CFT and QCD”**
S. J. Brodsky and G. F. de Teramond
arXiv:hep-th/0702205
SLAC-PUB-12361(2007)
Invited talk at 2006 International Workshop on the Origin of Mass and Strong Coupling Gauge Theories (SCGT 06), Nagoya, Japan, 21-24 Nov 2006
39. **“Photoproduction at collider energies: From RHIC and HERA to the LHC”**
A. Baltz *et al.*
arXiv:hep-ph/0702212
40. **“Hadron optics in three-dimensional invariant coordinate space from deeply virtual Compton scattering”**
S. J. Brodsky, D. Chakrabarti, A. Harindranath, A. Mukherjee and J. P. Vary
Phys. Rev. D **75**, 014003 (2007) [arXiv:hep-ph/0611159]
41. **“Single transverse-spin asymmetries at large-x”**
S. J. Brodsky and F. Yuan
Phys. Rev. D **74**, 094018 (2006) [arXiv:hep-ph/0610236]
42. **“Hadron Spectroscopy and Structure from AdS/CFT”**
S. J. Brodsky
Eur. Phys. J. A **31**, 638 (2007) [arXiv:hep-ph/0610115]
43. **“Evidence for the absence of gluon orbital angular momentum in the nucleon”**
S. J. Brodsky and S. Gardner
Phys. Lett. B **643**, 22 (2006) [arXiv:hep-ph/0608219]
44. **“New perspectives for QCD from AdS/CFT”**
S. J. Brodsky

arXiv:hep-ph/0608005

SLAC-PUB-11976(2006)

Presented at 7th Workshop on Continuous Advances in QCD, Minneapolis, Minnesota, 11-14 May 2006

45. **“Hadron optics: Diffraction patterns in deeply virtual Compton scattering”**
S. J. Brodsky, D. Chakrabarti, A. Harindranath, A. Mukherjee and J. P. Vary
Phys. Lett. B **641**, 440 (2006) [arXiv:hep-ph/0604262]
46. **“Diffractive Higgs production from intrinsic heavy flavors in the proton”**
S. J. Brodsky, B. Kopeliovich, I. Schmidt and J. Soffer
Phys. Rev. D **73**, 113005 (2006) [arXiv:hep-ph/0603238]
47. **“Orbital Angular Momentum on the Light-Front and QCD Observables”**
S. J. Brodsky
SLAC-WP-069(2006)
Talk Given at Joint UNM/RBRC Workshop on Parton Orbital Angular Momentum, Albuquerque, New Mexico, 24-26 Feb 2006
48. **“Hadronic spectra and light-front wavefunctions in holographic QCD”**
S. J. Brodsky and G. F. de Teramond
Phys. Rev. Lett. **96**, 201601 (2006) [arXiv:hep-ph/0602252]
49. **“The form factors of the gauge-invariant three-gluon vertex”**
M. Binger and S. J. Brodsky
Phys. Rev. D **74**, 054016 (2006) [arXiv:hep-ph/0602199]
50. **“Discrete symmetries on the light front and a general relation connecting nucleon electric dipole and anomalous magnetic moments”**
S. J. Brodsky, S. Gardner and D. S. Hwang
Phys. Rev. D **73**, 036007 (2006) [arXiv:hep-ph/0601037]
51. **“Single-spin asymmetries and transversity in QCD”**
S. J. Brodsky
SLAC-PUB-11568(2005)
Prepared for International Workshop on Transverse Polarization Phenomena in Hard Processes (Transversity 2005), Villa Olmo, Como, Italy, 7-10 Sep 2005
52. **“Renormalization scale-fixing for complex scattering amplitudes”**
S. J. Brodsky and F. J. Llanes-Estrada
Eur. Phys. J. C **46**, 751 (2006) [arXiv:hep-ph/0512247]
53. **“Exclusive two-photon processes in QCD”**
S. J. Brodsky
Acta Phys. Polon. B **37**, 905 (2006)
Invited talk at Photon: Its First Hundred Years and the Future. Includes PHOTON2005 and PLC2005, Warsaw and Kazimierz, Poland, 30 Aug - 8 Sep 2005
54. **“Photon photon collisions: Past and future”**
S. J. Brodsky
Acta Phys. Polon. B **37**, 619 (2006)
Presented at Photon: Its First Hundred Years and the Future. Includes PHOTON2005 and PLC2005, Warsaw and Kazimierz, Poland, 30 Aug - 8 Sep 2005
55. **“XIth conference on elastic and diffractive scattering 2005: Conference summary”**
S. J. Brodsky and M. Rijssenbeek
arXiv:hep-ph/0511178
SLAC-PUB-11553(2005)
Invited talk at 11th International Conference on Elastic and Diffractive Scattering: Towards High Energy Frontiers: The 20th Anniversary of the Blois Workshops, Chateau de Blois, Blois, France, 15-20 May 2005

56. **“Advances in light-front quantization and new perspectives for QCD from AdS/CFT”**
 S. J. Brodsky and G. F. de Teramond
 Nucl. Phys. Proc. Suppl. **161**, 34 (2006)
Invited talk at Workshop on Light-Cone QCD and Nonperturbative Hadron Physics 2005 (LC 2005), Cairns, Queensland, Australia, 7-15 Jul 2005
57. **“Scaling properties of high $p(T)$ inclusive hadron production”**
 S. J. Brodsky, H. J. Pirner and J. Raufeisen
 Phys. Lett. B **637**, 58 (2006) [arXiv:hep-ph/0510315]
58. **“Hadron spectroscopy and wavefunctions in QCD and the AdS/CFT correspondence”**
 S. J. Brodsky and G. F. de Teramond
 AIP Conf. Proc. **814**, 108 (2006) [arXiv:hep-ph/0510240]
Invited talk at 11th International Conference on Hadron Spectroscopy (Hadron05), Rio de Janeiro, Brazil, 21-26 Aug 2005
59. **“Applications of AdS/CFT duality to QCD”**
 S. J. Brodsky and G. F. de Teramond
 Int. J. Mod. Phys. A **21**, 762 (2006) [arXiv:hep-ph/0509269]
Invited talk at International Conference on QCD and Hadronic Physics, Beijing, China, 16-20 Jun 2005
60. **“Brodsky et al. reply”**
 S. J. Brodsky, C. E. Carlson, J. R. Hiller and D. S. Hwang
 Phys. Rev. Lett. **95**, 049102 (2005)
61. **“Novel aspects of hard diffraction in QCD”**
 S. J. Brodsky
 arXiv:hep-ph/0509222
 SLAC-PUB-11486(2005)
Invited talk at 11th International Conference on Elastic and Diffractive Scattering: Towards High Energy Frontiers: The 20th Anniversary of the Blois Workshops, Chateau de Blois, Blois, France, 15-20 May 2005
62. **“Two-boson truncation of Pauli-Villars regulated Yukawa theory”**
 S. J. Brodsky, J. R. Hiller and G. McCartor
 Annals Phys. **321**, 1240 (2006) [arXiv:hep-ph/0508295]
63. **“Deep inelastic scattering at the amplitude level”**
 S. J. Brodsky
 AIP Conf. Proc. **792**, 1084 (2005)
Invited talk presented at 13th International Workshop on Deep Inelastic Scattering - DIS05, , 4/27/2005-5/1/2005
64. **“Large x physics”**
 S. J. Brodsky
 AIP Conf. Proc. **792**, 977 (2005)
Invited talk at 13th International Workshop on Deep Inelastic Scattering (DIS 05), Madison, Wisconsin, 27 Apr - 1 May 2005
65. **“Novel nuclear effects in QCD: The non-universality of nuclear antishadowing and the implications of hidden color”**
 S. J. Brodsky
 AIP Conf. Proc. **792**, 279 (2005)
13th International Workshop on Deep Inelastic Scattering (DIS 05), Madison, Wisconsin, 27 Apr - 1 May 2005
66. **“Hard diffraction in QCD”**
 S. J. Brodsky
 AIP Conf. Proc. **792**, 519 (2005)
Invited talk at 13th International Workshop on Deep Inelastic Scattering (DIS 05), Madison, Wisconsin, 27 Apr - 1 May 2005

67. **“Nearly conformal QCD and AdS/CFT”**
 G. F. de Teramond and S. J. Brodsky
 arXiv:hep-ph/0507273
 SLAC-PUB-11375(2005)
Presented at 1st Workshop on Quark-Hadron Duality and the Transition to pQCD, Frascati, Rome, Italy, 6-8 Jun 2005
68. **“The two-photon exchange contribution to elastic electron nucleon scattering at large momentum transfer”**
 A. V. Afanasev, S. J. Brodsky, C. E. Carlson, Y. C. Chen and M. Vanderhaeghen
 Phys. Rev. D **72**, 013008 (2005) [arXiv:hep-ph/0502013]
69. **“The hadronic spectrum of a holographic dual of QCD”**
 G. F. de Teramond and S. J. Brodsky
 Phys. Rev. Lett. **94**, 201601 (2005) [arXiv:hep-th/0501022]
70. **“Light-front QCD”**
 S. J. Brodsky
 arXiv:hep-ph/0412101
 SLAC-PUB-10871(2004)
Invited lectures and talk presented at the 58th Scottish University Summer School in Physics: A NATO Advanced Study Institute and EU Hadronic Physics 13 Summer Institute (SUSSP58), St. Andrews, Scotland, 30 Aug - 1 Sep 2004
71. **“New results in light-front phenomenology”**
 S. J. Brodsky
 Few Body Syst. **36**, 35 (2005) [arXiv:hep-ph/0411056]
Presented at LightCone 2004, Amsterdam, The Netherlands, 16-20 Aug 2004
72. **“Testing quantum chromodynamics with antiprotons”**
 S. J. Brodsky
 Riv. Nuovo Cim. **29N9**, 1 (2006) [arXiv:hep-ph/0411046]
Presented at International School of Physics ‘Enrico Fermi’: Summer Course on Hadronic Physics, Varenna, Lake Como, Italy, 22 Jun - 2 Jul 2004
73. **“Novel aspects of QCD in lepton production”**
 S. J. Brodsky
 Eur. Phys. J. A **24S1**, 129 (2005) [arXiv:hep-ph/0411029]
Presented at 8th Workshop on Electron Nucleus Scattering, Elba, Italy, 21-25 Jun 2004
74. **“Novel QCD aspects of hard diffraction, antishadowing, and single-spin asymmetries”**
 S. J. Brodsky
 Acta Phys. Polon. B **36**, 635 (2005) [arXiv:hep-ph/0411028]
Presented at 34th International Symposium on Multiparticle Dynamics (ISMD 2004), Rohnert Park, California, 26 Jul - 1 Aug 2004
75. **“Finite-temperature field theory on the light front”**
 J. Raufeisen and S. J. Brodsky
 arXiv:hep-th/0409157
 SLAC-PUB-10714(2004) (Submitted to Few Body Syst.)
Invited talk at LightCone 2004, Amsterdam, The Netherlands, 16-20 Aug 2004
76. **“Hard diffraction from parton rescattering in QCD”**
 S. J. Brodsky, R. Enberg, P. Hoyer and G. Ingelman
 Phys. Rev. D **71**, 074020 (2005) [arXiv:hep-ph/0409119]
77. **“Baryonic states in QCD from gauge / string duality at large $N(c)$ ”**
 G. F. de Teramond and S. J. Brodsky
 arXiv:hep-th/0409074
 SLAC-PUB-10693(2004)
Presented at ECT Workshop on Large N_c QCD 2004, Trento, Italy, 5-9 Jul 2004*

78. **“Nuclear antishadowing in neutrino deep inelastic scattering”**
 S. J. Brodsky, I. Schmidt and J. J. Yang
 Phys. Rev. D **70**, 116003 (2004) [arXiv:hep-ph/0409279]
79. **“Statistical physics and light-front quantization”**
 J. Raufeisen and S. J. Brodsky
 Phys. Rev. D **70**, 085017 (2004) [arXiv:hep-th/0408108]
80. **“Constraints on proton structure from precision atomic physics measurements”**
 S. J. Brodsky, C. E. Carlson, J. R. Hiller and D. S. Hwang
 Phys. Rev. Lett. **94**, 022001 (2005) [Erratum-ibid. **94**, 169902 (2005)] [arXiv:hep-ph/0408131]
81. **“Applications of light-front QCD”**
 S. J. Brodsky
 Nucl. Phys. Proc. Suppl. **141**, 77 (2005) [arXiv:hep-ph/0408071]
Presented at Workshop on QCD Down Under, Barossa Valley and Adelaide, Australia, 10-19 Mar 2004
82. **“Conformal symmetry as a template for QCD”**
 S. J. Brodsky
 arXiv:hep-ph/0408069
 SLAC-PUB-10576(2004)
Invited talk given at Workshop on Continuous Advances in QCD 2004, Minneapolis, Minnesota, 13-16 May 2004
83. **“A nonperturbative calculation of the electron’s magnetic moment”**
 S. J. Brodsky, V. A. Franke, J. R. Hiller, G. McCartor, S. A. Paston and E. V. Prokhvatilov
 Nucl. Phys. B **703**, 333 (2004) [arXiv:hep-ph/0406325]
84. **“High energy photon photon collisions at a linear collider”**
 S. J. Brodsky
 Int. J. Mod. Phys. A **20**, 7306 (2005) [arXiv:hep-ph/0404186]
Invited talk at 5th International Workshop on Electron-Electron Interactions at TeV Energies, Santa Cruz, California, 12-14 Dec 2003
85. **“Partonic calculation of the two-photon exchange contribution to elastic electron proton scattering at large momentum transfer”**
 Y. C. Chen, A. Afanasev, S. J. Brodsky, C. E. Carlson and M. Vanderhaeghen
 Phys. Rev. Lett. **93**, 122301 (2004) [arXiv:hep-ph/0403058]
86. **“Novel Spin Effects In QCD”**
 S. J. Brodsky
 SLAC-WP-042(2004)
Presented at the Workshop on High-p(T) physics at RHIC, Upton, NY, USA, 2-6 Dec 2003
87. **“Outlook”**
 S. J. Brodsky
 SLAC-WP-041(2003)
Presented at the Workshop on High-p(T) physics at RHIC, Upton, NY, USA, 2-6 Dec 2003
88. **“QCD physics opportunities in low-energy electron positron annihilation”**
 S. J. Brodsky
In the Proceedings of Workshop on $e^+ e^-$ in the 1-GeV to 2-GeV Range: Physics and Accelerator Prospects - ICFA Mini-workshop - Working Group on High Luminosity $e^+ e^-$ Colliders, Alghero, Sardinia, Italy, 10-13 Sep 2003, pp WEPL001 [arXiv:hep-ph/0311355]
 SLAC-PUB-10250(2003)
Presented at Workshop on $e^+ e^-$ in the 1-GeV to 2-GeV Range: Physics and Accelerator Prospects - ICFA Mini-workshop - Working Group on High Luminosity $e^+ e^-$ Colliders, Alghero, Sardinia, Italy, 10-13 Sep 2003
89. **“Conformal aspects of QCD”**
 S. J. Brodsky

SLAC-PUB-10206(2003)

Invited talk at International Conference on Color Confinement and Hadrons in Quantum Chromodynamics - Confinement 2003, Wako, Japan, 21- 24 Jul 2003

90. **“The covariant structure of light-front wave functions and the behavior of hadronic form factors”**
S. J. Brodsky, J. R. Hiller, D. S. Hwang and V. A. Karmanov
Phys. Rev. D **69**, 076001 (2004) [arXiv:hep-ph/0311218]
91. **“Light-front quantization and QCD phenomena”**
S. J. Brodsky
arXiv:hep-ph/0311057
SLAC-PUB-10233(2003)
Presented at Light-Cone Workshop: Hadrons and Beyond (LC 03), Durham, England, 5-9 Aug 2003
92. **“Physical renormalization schemes and grand unification”**
M. Binger and S. J. Brodsky
Phys. Rev. D **69**, 095007 (2004) [arXiv:hep-ph/0310322]
93. **“New perspectives for QCD: The novel effects of final-state interactions and near-conformal effective couplings”**
S. J. Brodsky
Fizika B **13**, 91 (2004) [arXiv:hep-ph/0310289]
Invited talk at 2nd Conference on Nuclear and Particle Physics with CEBAF at Jlab (NAPP 2003), Dubrovnik, Croatia, 26-31 May 2003
94. **“Light-front hadron dynamics and AdS/CFT correspondence”**
S. J. Brodsky and G. F. de Teramond
Phys. Lett. B **582**, 211 (2004) [arXiv:hep-th/0310227]
95. **“Single-spin polarization effects and the determination of timelike proton form factors”**
S. J. Brodsky, C. E. Carlson, J. R. Hiller and D. S. Hwang
Phys. Rev. D **69**, 054022 (2004) [arXiv:hep-ph/0310277]
96. **“Hard probes in heavy ion collisions at the LHC: PDFs, shadowing and p A collisions”**
A. Accardi *et al.*
arXiv:hep-ph/0308248
CERN-2004-009-A(2004)
Subgroup report 3rd Workshop on Hard Probes in Heavy Ion Collisions: 3rd Plenary Meeting, Geneva, Switzerland, 7-11 Oct 2002
97. **“Hard photodisintegration of a proton pair in He-3”**
S. J. Brodsky *et al.*
Phys. Lett. B **578**, 69 (2004) [arXiv:nucl-th/0305068]
98. **“Hunting for glueballs in electron positron annihilation”**
S. J. Brodsky, A. S. Goldhaber and J. Lee
Phys. Rev. Lett. **91**, 112001 (2003) [arXiv:hep-ph/0305269]
99. **“Light-front quantization of gauge theories”**
S. J. Brodsky
arXiv:hep-th/0304106
SLAC-PUB-9689(2003)
Invited talk at 2002 International Workshop on Strong Coupling Gauge Theories and Effective Field Theories (SCGT 02), Nagoya, Japan, 10- 13 Dec 2002
100. **“Final-state interactions and single-spin asymmetries in semi-inclusive deep inelastic scattering”**
S. J. Brodsky, D. S. Hwang and I. Schmidt
Int. J. Mod. Phys. A **18**, 1327 (2003)
Prepared for 3rd Circum-Pan-Pacific Symposium on High Energy Spin Physics (SPIN 2001), Beijing, China, 8-13 Oct 2001

101. **“Gauge theories on the light-front”**
 S. J. Brodsky
 Braz. J. Phys. **34**, 157 (2004) [arXiv:hep-th/0302121]
Invited talk at 23rd Brazilian National Meeting on Particle and Fields, Aguas de Lindoia, Brazil, 15-19 Oct 2002
102. **“On the Behavior of the Effective QCD Coupling $\alpha_r(s)$ at Low Scales”**
 S. J. Brodsky, S. Menke, C. Merino and J. Rathsmann
 Phys. Rev. D **67**, 055008 (2003) [arXiv:hep-ph/0212078]
103. **“Spontaneously broken chiral symmetry and hard QCD phenomena”**
 M. J. Amarian *et al.*
 arXiv:hep-ph/0211291
Mini-proceedings of Workshop on Spontaneously Broken Chiral Symmetry and Hard QCD Phenomena, Bad Honnef, Germany, 15-19 Jul 2002
104. **“Single hadronic-spin asymmetries in weak interaction processes. ((V))”**
 S. J. Brodsky, D. S. Hwang and I. Schmidt
 Phys. Lett. B **553**, 223 (2003) [arXiv:hep-ph/0211212]
105. **“Initial state interactions in the unpolarized Drell-Yan process”**
 D. Boer, S. J. Brodsky and D. S. Hwang
 Phys. Rev. D **67**, 054003 (2003) [arXiv:hep-ph/0211110]
106. **“Two-particle truncation of Pauli-Villars-regulated Yukawa theory”**
 S. J. Brodsky, J. R. Hiller and G. McCartor
 Annals Phys. **305**, 266 (2003) [arXiv:hep-th/0209028]
107. **“High-energy QCD asymptotics of photon photon collisions”**
 S. J. Brodsky, V. S. Fadin, V. T. Kim, L. N. Lipatov and G. B. Pivovarov
 JETP Lett. **76**, 249 (2002) [Pisma Zh. Eksp. Teor. Fiz. **76**, 306 (2002)] [arXiv:hep-ph/0207297]
108. **“Perspectives on exclusive processes in QCD”**
 S. J. Brodsky
 arXiv:hep-ph/0208158
 SLAC-PUB-9281(2002)
Prepared for Exclusive Processes at High Momentum Transfer, Newport News, Virginia, 15-18 May 2002
109. **“Commensurate Scale Relations In Quantum Chromodynamics”**
 H. J. Lu and S. J. Brodsky
 Nucl. Phys. Proc. Suppl. **39BC**, 309 (1995)
Prepared for High-energy Physics: QCD Workshop 94, Montpellier, France, 7-13 Jul 1994
110. **“Initial-state interactions and single-spin asymmetries in Drell-Yan processes”**
 S. J. Brodsky, D. S. Hwang and I. Schmidt
 Nucl. Phys. B **642**, 344 (2002) [arXiv:hep-ph/0206259]
111. **“New directions in QCD and the electron-ion collider”**
 S. J. Brodsky
 SLAC-PUB-9195(2002)
Invited talk at Electron Ion Collider Workshop, Upton, New York, 28 Feb - 2 Mar 2002
112. **“Physics opportunities at a photon photon collider”**
 S. J. Brodsky
 Int. J. Mod. Phys. A **18**, 2871 (2003) [arXiv:hep-ph/0204197]
Invited talk at 4th International Workshop on Electron-Electron Interactions at TeV Energies (e- e- 01), Santa Cruz, California, 7-9 Dec 2001
113. **“Light-front methods and non-perturbative QCD”**
 S. J. Brodsky

SLAC-PUB-9187(2002)

Invited talk at Workshop on Hadron Structure from Lattice QCD, Upton, New York, 18-22 Mar 2002

114. **“A unitary and renormalizable theory of the standard model in ghost-free light-cone gauge”**
P. P. Srivastava and S. J. Brodsky
Phys. Rev. D **66**, 045019 (2002) [arXiv:hep-ph/0202141]
115. **“Final-state interactions and single-spin asymmetries in semi-inclusive deep inelastic scattering”**
S. J. Brodsky, D. S. Hwang and I. Schmidt
Phys. Lett. B **530**, 99 (2002) [arXiv:hep-ph/0201296]
116. **“Hadron spin dynamics”**
S. J. Brodsky
Int. J. Mod. Phys. A **18**, 1531 (2003) [arXiv:hep-ph/0201165]
Talk given at 3rd Circum-Pan-Pacific Symposium on High Energy Spin Physics (SPIN 2001), Beijing, China, 8-13 Oct 2001
117. **“Physics at the light-front”**
S. J. Brodsky
Nucl. Phys. Proc. Suppl. **108**, 327 (2002) [arXiv:hep-ph/0112309]
Presented at ECT International Conference on Light-Cone Physics: Particles and Strings (TRENTO 2001), 3-11 Sep 2001, Trento, Italy*
118. **“High-energy asymptotics of photon photon collisions in QCD”**
S. J. Brodsky, V. S. Fadin, V. T. Kim, L. N. Lipatov and G. B. Pivovarov
arXiv:hep-ph/0111390
SLAC-PUB-9069(2001)
Presented at International Conference on the Structure and Interactions of the Photon and 14th International Workshop on Photon-Photon Collisions (Photon 2001), Ascona, Switzerland, 2-7 Sep 2001
119. **“QCD phenomenology and light-front wavefunctions”**
S. J. Brodsky
Acta Phys. Polon. B **32**, 4013 (2001) [arXiv:hep-ph/0111340]
Invited talk at Cracow School of Theoretical Physics: 41st Course: Fundamental Interactions, Zakopane, Poland, 2-11 Jun 2001q
120. **“The Heisenberg matrix formulation of quantum field theory”**
S. J. Brodsky
Fortsch. Phys. **50**, 503 (2002) [arXiv:hep-th/0111241]
Presented at Symposium on 100 Years Werner Heisenberg: Works and Impact, Bamberg, Germany, 26-30 Sep 2001
121. **“Perspectives and challenges for QCD phenomenology”**
S. J. Brodsky
in *Proc. of the APS/DPF/DPB Summer Study on the Future of Particle Physics (Snowmass 2001)*
ed. N. Graf,
In the Proceedings of APS / DPF / DPB Summer Study on the Future of Particle Physics (Snowmass 2001), Snowmass, Colorado, 30 Jun - 21 Jul 2001, pp E211 [arXiv:hep-ph/0111127]
SLAC-PUB-9022(2001)
Prepared for APS / DPF / DPB Summer Study on the Future of Particle Physics (Snowmass 2001), Snowmass, Colorado, 30 Jun - 21 Jul 2001
122. **“Diffraction dissociation in QCD and light-cone wavefunctions”**
S. J. Brodsky
arXiv:hep-ph/0109205
SLAC-PUB-8998(2001)
Presented at 9th Blois Workshop on Elastic and Diffractive Scattering, Pruhonice, Prague, Czech Republic, 9-15 Jun 2001

123. **“Evading the CKM hierarchy”**
 S. J. Brodsky and S. Gardner
 Phys. Rev. D **65**, 054016 (2002) [arXiv:hep-ph/0108121]
124. **“Exact solutions to Pauli-Villars regulated field theories”**
 S. J. Brodsky, J. R. Hiller and G. McCartor
 Annals Phys. **296**, 406 (2002) [arXiv:hep-th/0107246]
125. **“Application of Pauli-Villars regularization and discretized light-cone quantization to a single-fermion truncation of Yukawa theory”**
 S. J. Brodsky, J. R. Hiller and G. McCartor
 Phys. Rev. D **64**, 114023 (2001) [arXiv:hep-ph/0107038]
126. **“The generalized Crewther relation in QCD and its experimental consequences: The preliminary consideration”**
 S. J. Brodsky, G. T. Gabadadze, A. L. Kataev and H. J. Lu
 SLAC-REPRINT-1995-004(1995)
Prepared for 18th International Workshop on High-energy Physics and Field Theory: Relativity, Gravity, Quantum Mechanics and Contemporary Fundamental Physics, Protvino, Russia, 26-30 Jun 1995
127. **“Two-photon processes at intermediate energies”**
 S. J. Brodsky
 in *Proc. of the e^+e^- Physics at Intermediate Energies Conference* ed. Diego Bettoni,
In the Proceedings of e^+e^- Physics at Intermediate Energies, SLAC, Stanford, California, 30 Apr - 2 May 2001, pp W01 [arXiv:hep-ph/0106294]
 SLAC-PUB-8883(2001)
Invited talk at e^+e^- Physics at Intermediate Energies, SLAC, Stanford, California, 30 Apr - 2 May 2001
128. **“Linear collider physics resource book for Snowmass 2001”**
 T. Abe *et al.* [American Linear Collider Working Group]
 in *Proc. of the APS/DPF/DPB Summer Study on the Future of Particle Physics (Snowmass 2001)*
 ed. N. Graf,
 SLAC-R-570(2001)
Resource book for Snowmass 2001, 30 Jun - 21 Jul 2001, Snowmass, Colorado
129. **“Linear collider physics resource book for Snowmass 2001. 4: Theoretical, accelerator, and experimental options”**
 T. Abe *et al.* [American Linear Collider Working Group]
 in *Proc. of the APS/DPF/DPB Summer Study on the Future of Particle Physics (Snowmass 2001)*
 ed. N. Graf,
 arXiv:hep-ex/0106058
 SLAC-R-570(2001)
Resource Book APS / DPF / DPB Summer Study on the Future of Particle Physics (Snowmass 2001), Snowmass, Colorado, 30 Jun - 21 Jul 2001
130. **“Linear collider physics resource book for Snowmass 2001. 3: Studies of exotic and standard model physics”**
 T. Abe *et al.* [American Linear Collider Working Group]
 in *Proc. of the APS/DPF/DPB Summer Study on the Future of Particle Physics (Snowmass 2001)*
 ed. N. Graf,
 arXiv:hep-ex/0106057
 SLAC-R-570(2001)
Resource Book APS / DPF / DPB Summer Study on the Future of Particle Physics (Snowmass 2001), Snowmass, Colorado, 30 Jun - 21 Jul 2001
131. **“Linear collider physics resource book for Snowmass 2001. 2: Higgs and supersymmetry studies”**
 T. Abe *et al.* [American Linear Collider Working Group]
 in *Proc. of the APS/DPF/DPB Summer Study on the Future of Particle Physics (Snowmass 2001)*

- ed. N. Graf,
arXiv:hep-ex/0106056
SLAC-R-570(2001)
Resource Book APS / DPF / DPB Summer Study on the Future of Particle Physics (Snowmass 2001), Snowmass, Colorado, 30 Jun - 21 Jul 2001
132. **“Linear collider physics resource book for Snowmass 2001. 1: Introduction”**
T. Abe *et al.* [American Linear Collider Working Group]
in *Proc. of the APS/DPF/DPB Summer Study on the Future of Particle Physics (Snowmass 2001)*
ed. N. Graf,
arXiv:hep-ex/0106055
SLAC-R-570(2001)
Resource Book APS / DPF / DPB Summer Study on the Future of Particle Physics (Snowmass 2001), Snowmass, Colorado, 30 Jun - 21 Jul 2001
133. **“Perturbative QCD and factorization of coherent pion photoproduction on the deuteron”**
S. J. Brodsky, J. R. Hiller, C. R. Ji and G. A. Miller
Phys. Rev. C **64**, 055204 (2001) [arXiv:hep-ph/0105259]
134. **“Structure functions are not parton probabilities”**
S. J. Brodsky, P. Hoyer, N. Marchal, S. Peigne and F. Sannino
Phys. Rev. D **65**, 114025 (2002) [arXiv:hep-ph/0104291]
135. **“QCD aspects of exclusive B decays”**
S. J. Brodsky
arXiv:hep-ph/0104153
SLAC-PUB-8809(2001)
Invited talk presented at 4th International Conference on B Physics and CP Violation (BCP4), Ago Town, Mie Prefecture, Japan, 19-23 February 2001
136. **“Hadronic light-front wavefunctions and QCD phenomenology”**
S. J. Brodsky
arXiv:hep-ph/0102051
SLAC-PUB-8770(2001)
Invited talk at 5th International Workshop on Particle Physics Phenomenology, Chi-Pen, Taitung, Taiwan, 8-11 Nov 2000
137. **“Key issues in hadronic physics”**
S. Capstick *et al.*
arXiv:hep-ph/0012238
SLAC-REPRINT-2000-051(2000)
Presented at APS Division of Nuclear Physics Town Meeting on Electromagnetic and Hadronic Physics, Newport News, Virginia, 1-4 Dec 2000
138. **“Exclusive processes in quantum chromodynamics and the light-cone Fock representation”**
S. J. Brodsky
SLAC-PUB-8649(2000)
*In *Shifman, M. (ed.): At the frontier of particle physics, vol. 2* 1343-1444*
139. **“Light-front quantized QCD in light-cone gauge”**
P. P. Srivastava and S. J. Brodsky
Phys. Rev. D **64**, 045006 (2001) [arXiv:hep-ph/0011372]
140. **“Photoproduction of charm near threshold”**
S. J. Brodsky, E. Chudakov, P. Hoyer and J. M. Laget
Phys. Lett. B **498**, 23 (2001) [arXiv:hep-ph/0010343]
141. **“Two-photon exclusive processes in QCD”**
S. J. Brodsky
arXiv:hep-ph/0010176

SLAC-PUB-8663(2000)

Invited talk at PHOTON 2000: International Workshop on Structure and Interactions of the Photon (Including 13th International Workshop on Photon-Photon Collisions), Ambleside, Lake District, England, 26-31 Aug 2000

142. **“Light-front-quantized QCD in light-cone gauge”**

P. P. Srivastava and S. J. Brodsky

SLAC-PUB-8631(2000)

Presented at 30th International Conference on High-Energy Physics (ICHEP 2000), Osaka, Japan, 27 Jul - 2 Aug 2000

143. **“Light-cone wavefunction representation of deeply virtual Compton scattering”**

S. J. Brodsky, M. Diehl and D. S. Hwang

Nucl. Phys. B **596**, 99 (2001) [arXiv:hep-ph/0009254]

144. **“The light-cone Fock representation in QCD”**

S. J. Brodsky

Nucl. Phys. Proc. Suppl. **90**, 3 (2000) [arXiv:hep-ph/0009229]

Invited talk at 10th International Light Cone Meeting on Nonperturbative QCD and Hadrons: From Hadrons to Strings (HD 2000), Heidelberg, Germany, 13-17 Jun 2000

145. **“The light-cone Fock expansion in quantum chromodynamics”**

S. J. Brodsky

arXiv:hep-ph/0009228

SLAC-PUB-8627(2000)

Presented at 7th Hadron Physics 2000, Caraguatatuba, Sao Paulo, Brazil, 10-15 Apr 2000

146. **“Jet asymmetry in high energy diffractive production”**

C. Merino, S. J. Brodsky and J. Rathsman

Nucl. Phys. Proc. Suppl. **96**, 141 (2001) [arXiv:hep-ph/0009194]

Contributed to International Euroconference in Quantum Chromodynamics: 15 Years of the QCD - Montpellier Conference (QCD 00), Montpellier, France, 6-13 Jul 2000

147. **“Light-front-quantized QCD in light-cone gauge”**

P. P. Srivastava and S. J. Brodsky

arXiv:hep-ph/0008293

SLAC-PUB-8591(2000)

Presented at 7th Hadron Physics 2000, Caraguatatuba, Sao Paulo, Brazil, 10-15 Apr 2000

148. **“Dynamical higher-twist and high x phenomena: A window to quark quark correlations in QCD”**

S. J. Brodsky

arXiv:hep-ph/0006310

SLAC-PUB-8474(2000)

Invited talk at the Workshop on Nuclear Structure in High X-Bjorken Region (HIX2000), Philadelphia, Pennsylvania, 30 Mar - 1 Apr 2000

149. **“Light-cone wavefunctions and the intrinsic structure of hadrons”**

S. J. Brodsky

arXiv:hep-ph/0004211

SLAC-PUB-8427(2000)

Presented at the Workshop on Light-Cone QCD and NonPerturbative Hadron Physics, Adelaide, Australia, 13-22 Dec 1999

150. **“Light-cone representation of the spin and orbital angular momentum of relativistic composite systems”**

S. J. Brodsky, D. S. Hwang, B. Q. Ma and I. Schmidt

Nucl. Phys. B **593**, 311 (2001) [arXiv:hep-th/0003082]

151. **“Coherent contributions of nuclear mesons to electroproduction and the HERMES effect”**

G. A. Miller, S. J. Brodsky and M. Karliner

Phys. Lett. B **481**, 245 (2000) [arXiv:hep-ph/0002156]

152. **“Disentangling running coupling and conformal effects in QCD”**
S. J. Brodsky, E. Gardi, G. Grunberg and J. Rathsmann
Phys. Rev. D **63**, 094017 (2001) [arXiv:hep-ph/0002065]
153. **“Hadronic light-cone wavefunctions and the unification of QCD bound-state phenomena”**
S. J. Brodsky
RIKEN Rev. **28**, 135 (2000) [arXiv:hep-ph/0002014]
Invited talk at Circum-Pan-Pacific RIKEN Symposium on High Energy Spin Physics (Pacific Spin 99), Wako, Japan, 4-6 Nov 1999
154. **“New directions in quantum chromodynamics”**
S. J. Brodsky
arXiv:hep-ph/9912340
SLAC-PUB-8315(1999)
Invited talk at NATO Advanced Study Institute on Particle Production Spanning MeV and TeV Energies (Nijmegen 99), Nijmegen, Netherlands, 8-20 Aug 1999
155. **“QCD processes at the amplitude level”**
S. J. Brodsky
arXiv:hep-ph/9911368
SLAC-PUB-8295(1999)
Presented at Workshop on the Transition from Low to High Q Form-factors (To Honor the Occasion of the 60th Birthday of Stanley Brodsky), Athens, Georgia, 17 Sep 1999
156. **“Higher twist effects in the Drell-Yan process”**
A. Brandenburg, S. J. Brodsky, V. V. Khoze and D. Mueller
SLAC-REPRINT-1994-029()
Prepared for 11th International Symposium on High-energy Spin Physics and the 8th International Symposium on Polarization Phenomena in Nuclear Physics (SPIN 94), Bloomington, Indiana, 15-22 Sep 1994
157. **“Jet asymmetry and the detection of odderon exchange in DIS”**
C. Merino, S. J. Brodsky and J. Rathsmann
Nucl. Phys. Proc. Suppl. **86**, 183 (2000)
Talk given at the High-Energy Physics International Euroconference on Quantum Chromo Dynamics - QCD '99, Montpellier, France, 7-13 Jul 1999
158. **“Looking for the odderon”**
C. Merino, S. J. Brodsky and J. Rathsmann
SLAC-PUB-8272(1999)
Contributed to 29th International Symposium on Multiparticle Dynamics (ISMD 99), Providence, RI, 8-13 Aug 1999
159. **“Perturbative QCD relations inspired by hypothetical tau leptons”**
J. R. Pelaez, S. J. Brodsky, C. Merino and N. Toumbas
Nucl. Phys. Proc. Suppl. **86**, 216 (2000) [arXiv:hep-ph/9909311]
Talk given at the High-Energy Physics International EuroConference on Quantum Chromo Dynamics - QCD '99, Montpellier, France, 7-13 Jul 1999
160. **“QCD technology: Light-cone quantization and commensurate scale relations”**
S. J. Brodsky
AIP Conf. Proc. **494**, 3 (1999) [arXiv:hep-ph/9909234]
Lectures given at 11th International Light-Cone School and Workshop: New Directions in Quantum Chromodynamics and 12th Nuclear Physics Summer School and Symposium (NuSS 99), Seoul, Korea, 26 May - 26 Jun 1999
161. **“Hard exclusive and diffractive processes in QCD”**
S. J. Brodsky
arXiv:hep-ph/9908456
SLAC-PUB-8235(1999)

Presented at 6th INT / Jlab Workshop on Exclusive and Semiexclusive Processes at High Momentum Transfer, Newport News, VA, 19-23 May 1999

162. **“Perspectives on EPIC physics”**
S. J. Brodsky
arXiv:hep-ph/9907346
SLAC-PUB-8198(1999)
Talk given at the Workshop on Physics with Electron Polarized Ion Collider - EPIC '99, Bloomington, IN, 8-11 Apr 1999
163. **“Light-front-quantized QCD in covariant gauge”**
P. P. Srivastava and S. J. Brodsky
Phys. Rev. D **61**, 025013 (2000) [arXiv:hep-ph/9906423]
164. **“Measuring the QCD Gell-Mann low psi-function”**
S. J. Brodsky, C. Merino and J. R. Pelaez
Phys. Rev. D **60**, 114007 (1999) [arXiv:hep-ph/9906382]
165. **“Conformal symmetry as a template: Commensurate scale relations and physical renormalization schemes”**
S. J. Brodsky and J. Rathsman
arXiv:hep-ph/9906339
SLAC-PUB-8176(1999)
Invited talk at 13th Les Rencontres de Physique de la Valle d'Aoste: Results and Perspectives in Particle Physics, La Thuile, Valle d'Aoste, Italy, 28 Feb - 6 Mar 1999
166. **“The two-loop scale dependence of the static QCD potential including quark masses”**
S. J. Brodsky, M. Melles and J. Rathsman
Phys. Rev. D **60**, 096006 (1999) [arXiv:hep-ph/9906324]
167. **“New tests of perturbative QCD inspired by hypothetical tau leptons”**
J. R. Pelaez, S. J. Brodsky and N. Toumbas
arXiv:hep-ph/9905435
SLAC-PUB-8147(1999)
Talk given at 34th Rencontres de Moriond: QCD and Hadronic Interactions, Les Arcs, France, 20-27 Mar 1999
168. **“Odderon-pomeron interference”**
S. J. Brodsky, J. Rathsman and C. Merino
Phys. Lett. B **461**, 114 (1999) [arXiv:hep-ph/9904280]
169. **“The Physics case for a forward detector upgrade”**
H. Abramowicz *et al.*
SLAC-REPRINT-1996-020()
Prepared for Workshop on Future Physics at HERA (Preceded by meetings 25-26 Sep 1995 and 7-9 Feb 1996 at DESY), Hamburg, Germany, 30-31 May 1996
170. **“Application of Pauli-Villars regularization and discretized light-cone quantization to a (3+1)-dimensional model”**
S. J. Brodsky, J. R. Hiller and G. McCartor
Phys. Rev. D **60**, 054506 (1999) [arXiv:hep-ph/9903388]
171. **“Gluon virtuality and heavy sea quark contributions to the spin-dependent g1 structure function”**
S. D. Bass, S. J. Brodsky and I. Schmidt
Phys. Rev. D **60**, 034010 (1999) [arXiv:hep-ph/9901244]
172. **“The QCD pomeron with optimal renormalization”**
S. J. Brodsky, V. S. Fadin, V. T. Kim, L. N. Lipatov and G. B. Pivovarov
JETP Lett. **70**, 155 (1999) [arXiv:hep-ph/9901229]

173. **“Semi-exclusive processes: New probes of hadron structure”**
 S. J. Brodsky, M. Diehl, P. Hoyer and S. Peigne
 Phys. Lett. B **449**, 306 (1999) [arXiv:hep-ph/9812277]
174. **“Scheme-independent predictions in QCD: Commensurate scale relations and physical renormalization schemes”**
 S. J. Brodsky and J. Rathsman
 arXiv:hep-ph/9812245
 SLAC-PUB-8022(1998)
To be published in the proceedings of 4th International Symposium on Radiative Corrections (RADCOR 98): Applications of Quantum Field Theory to Phenomenology, Barcelona, Catalonia, Spain, 8-12 Sep 1998
175. **“Testing QCD with hypothetical tau leptons”**
 S. J. Brodsky, J. R. Pelaez and N. Toumbas
 Phys. Rev. D **60**, 037501 (1999) [arXiv:hep-ph/9810424]
176. **“QCD phenomena and the light-cone wavefunctions of hadrons”**
 S. J. Brodsky
 arXiv:hep-ph/9807212
 SLAC-PUB-7870(1998)
Talk given at 3rd Workshop on Continuous Advances in QCD (QCD 98), Minneapolis, MN, 16-19 Apr 1998
177. **“Commensurate scale relations and the Abelian correspondence principle”**
 S. J. Brodsky
 arXiv:hep-ph/9806445
 SLAC-PUB-7861(1998)
Invited talk at Workshop on Future Directions in Quark Nuclear Physics, Adelaide, Australia, 9-20 Mar 1998
178. **“Exact light-cone wavefunction representation of matrix elements of electroweak currents”**
 S. J. Brodsky and D. S. Hwang
 Nucl. Phys. B **543**, 239 (1999) [arXiv:hep-ph/9806358]
179. **“Nonperturbative renormalization and the electron’s anomalous moment in large-alpha QED”**
 J. R. Hiller and S. J. Brodsky
 Phys. Rev. D **59**, 016006 (1999) [arXiv:hep-ph/9806541]
180. **“The spin structure of a polarized photon”**
 S. D. Bass, S. J. Brodsky and I. Schmidt
 Phys. Lett. B **437**, 417 (1998) [arXiv:hep-ph/9805316]
181. **“Pauli-Villars as a nonperturbative ultraviolet regulator in discretized light-cone quantization”**
 S. J. Brodsky, J. R. Hiller and G. McCartor
 Phys. Rev. D **58**, 025005 (1998) [arXiv:hep-th/9802120]
182. **“An analytic extension of the $\overline{\text{MS}}$ renormalization scheme”**
 S. J. Brodsky, M. S. Gill, M. Melles and J. Rathsman
 Phys. Rev. D **58**, 116006 (1998) [arXiv:hep-ph/9801330]
183. **“High energy photon photon and electron photon collisions”**
 S. J. Brodsky
 Int. J. Mod. Phys. A **13**, 2417 (1998) [arXiv:hep-ph/9801288]
Talk given at the 2nd International Workshop on Electron-Electron Interactions at TeV Energies (e-e- 97), Santa Cruz, CA, 22-24 Sep 1997

184. **“Polarization asymmetry zero in heavy quark photoproduction and leptonproduction”**
S. J. Brodsky and I. Schmidt
Phys. Lett. B **423**, 145 (1998) [arXiv:hep-ph/9711413]
185. **“Light-cone quantized QCD and novel hadron phenomenology”**
S. J. Brodsky
arXiv:hep-ph/9710288
SLAC-PUB-7645(1997)
Given at 10th Summer School and Symposium on Nuclear Physics: QCD, Light cone Physics and Hadron Phenomenology (NuSS 97), Seoul, Korea, 23-28 Jun 1997
186. **“Exclusive photon photon processes”**
S. J. Brodsky
arXiv:hep-ph/9708345
SLAC-PUB-7604(1997)
Invited talk at International Conference on the Structure and the Interactions of the Photon (Photon 97) including the 11th International Workshop on Photon-Photon Collisions, Egmond aan Zee, Netherlands, 10-15 May 1997
187. **“Aspects of SU(N(c)) gauge theories in the limit of small number of colors”**
S. J. Brodsky and P. Huet
Phys. Lett. B **417**, 145 (1998) [arXiv:hep-ph/9707543]
188. **“BFKL scattering at LEP II and a next e+ e- collider”**
S. J. Brodsky, F. Hautmann and D. E. Soper
arXiv:hep-ph/9707444
SLAC-PUB-7601(1997)
Talks given at 5th International Workshop on Deep Inelastic Scattering and QCD (DIS 97), Chicago, IL, 14-18 Apr 1997 and at International Conference on the Structure and the Interactions of the Photon (Photon 97) including the 11th International Workshop on Photon-Photon Collisions, Egmond aan Zee, Netherlands, 10-15 May 1997
189. **“The spin and flavor content of intrinsic sea quarks”**
B. Q. Ma and S. J. Brodsky
arXiv:hep-ph/9707408
SLAC-PUB-7501(1997)
Talk given at ICTP Conference on Perspectives in Hadronic Physics, Trieste, Italy, 12-16 May 1997
190. **“Is J/psi nucleon scattering dominated by the gluonic van der Waals interaction?”**
S. J. Brodsky and G. A. Miller
Phys. Lett. B **412**, 125 (1997) [arXiv:hep-ph/9707382]
191. **“Pade approximants, optimal renormalization scales, and momentum flow in Feynman diagrams”**
S. J. Brodsky, J. R. Ellis, E. Gardi, M. Karliner and M. A. Samuel
Phys. Rev. D **56**, 6980 (1997) [arXiv:hep-ph/9706467]
192. **“Virtual photon scattering at high energies as a probe of the short distance pomeron”**
S. J. Brodsky, F. Hautmann and D. E. Soper
Phys. Rev. D **56**, 6957 (1997) [arXiv:hep-ph/9706427]
193. **“The light-cone Fock state expansion and QCD phenomenology”**
S. J. Brodsky
arXiv:hep-ph/9706236
SLAC-PUB-7542(1997)
Invited talk at New Nonperturbative Methods and Quantization of the Light Cone, Les Houches, France, 24 Feb - 7 Mar 1997
194. **“Quantum Chromodynamics and Other Field Theories on the Light Cone”**
S. J. Brodsky, H. C. Pauli and S. S. Pinsky
Phys. Rept. **301**, 299 (1998) [arXiv:hep-ph/9705477]

195. **“Light-cone wavefunctions at small x ”**
F. Antonuccio, S. J. Brodsky and S. Dalley
Phys. Lett. B **412**, 104 (1997) [arXiv:hep-ph/9705413]
196. **“Optimal renormalization scale and scheme for exclusive processes”**
S. J. Brodsky, C. R. Ji, A. Pang and D. G. Robertson
Phys. Rev. D **57**, 245 (1998) [arXiv:hep-ph/9705221]
197. **“Intrinsic charm of vector mesons: A possible solution of the ρ pi puzzle”**
S. J. Brodsky and M. Karliner
Phys. Rev. Lett. **78**, 4682 (1997) [arXiv:hep-ph/9704379]
198. **“Looking for exotic multiquark states in nonleptonic B decays”**
S. J. Brodsky and F. S. Navarra
Phys. Lett. B **411**, 152 (1997) [arXiv:hep-ph/9704348]
199. **“Rapidity gaps in perturbative QCD”**
S. J. Brodsky, P. Hoyer and L. Magnea
Phys. Rev. D **55**, 5585 (1997) [arXiv:hep-ph/9611278]
200. **“Asymmetric quark/antiquark hadronization in $e^+ e^-$ annihilation”**
S. J. Brodsky and B. Q. Ma
Phys. Lett. B **392**, 452 (1997) [arXiv:hep-ph/9610304]
201. **“Probing the QCD pomeron in $e^+ e^-$ collisions”**
S. J. Brodsky, F. Hautmann and D. E. Soper
Phys. Rev. Lett. **78**, 803 (1997) [Erratum-ibid. **79**, 3544 (1997)] [arXiv:hep-ph/9610260]
202. **“Novel QCD effects in the production and decay of quarkonium”**
S. J. Brodsky
Int. J. Mod. Phys. A **12**, 4087 (1997) [arXiv:hep-ph/9609415]
203. **“The Drell-Yan process and factorization in impact parameter space”**
S. J. Brodsky, A. Hebecker and E. Quack
Phys. Rev. D **55**, 2584 (1997) [arXiv:hep-ph/9609384]
204. **“Nonperturbative renormalization of QED in light-cone quantization”**
J. R. Hiller and S. J. Brodsky
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SLAC-PUB-7272(1996)
Submitted to DPF 96, Minneapolis, MN, 10-15 Aug 1996
205. **“The strong interactions”**
R. Blankenbecler and S. J. Brodsky
SLAC-PUB-7239(1996) Encyclopedia of Applied Physics.
206. **“Nuclear effects at HERA”**
S. J. Brodsky
SLAC-PUB-7212(1996)
To be published in the proceedings of Workshop on Future Physics at HERA, Hamburg, Germany, 30-31 May 1996
207. **“Light-cone quantization and hadron structure”**
S. J. Brodsky
arXiv:hep-ph/9604391
SLAC-PUB-7152(1996)
Presented at Orbis Scientiae: Neutrino Mass, Dark Matter, Gravitational Waves, Condensation of Atoms and Monopoles, Light-Cone Quantization, Miami Beach, FL, 25-28 Jan 1996
208. **“The Quark/Antiquark Asymmetry of the Nucleon Sea”**
S. J. Brodsky and B. Q. Ma
Phys. Lett. B **381**, 317 (1996) [arXiv:hep-ph/9604393]

209. **“Optimal renormalization scales and commensurate scale relations”**
S. J. Brodsky and H. J. Lu
arXiv:hep-ph/9601301
SLAC-PUB-7098(1995)
Talk given at International Symposium on Heavy Flavor and Electroweak Theory, Beijing, P.R. China, 16-19 Aug 1995
210. **“The generalized Crewther relation in QCD and its experimental consequences”**
S. J. Brodsky, G. T. Gabadadze, A. L. Kataev and H. J. Lu
Phys. Lett. B **372**, 133 (1996) [arXiv:hep-ph/9512367]
211. **“Charmed Hadron Asymmetries in the Intrinsic Charm Coalescence Model”**
R. Vogt and S. J. Brodsky
Nucl. Phys. B **478**, 311 (1996) [arXiv:hep-ph/9512300]
212. **“Light-cone quantization and QCD phenomenology”**
S. J. Brodsky and D. G. Robertson
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To be published in the proceedings of ELFE (European Laboratory for Electrons) Summer School on Confinement Physics, Cambridge, England, 22-28 Jul 1995
213. **“The structure functions of the photon”**
S. J. Brodsky, M. Kramer and P. M. Zerwas
Nucl. Phys. Proc. Suppl. **37B**, 293 (1994)
Prepared for Zeuthen Workshop on Elementary Particle Theory: Physics at LEP200 and Beyond, Teupitz, Germany, 10-15 Apr 1994
214. **“Angular distributions of massive quarks and leptons close to threshold”**
S. J. Brodsky, A. H. Hoang, J. H. Kuhn and T. Teubner
Phys. Lett. B **359**, 355 (1995) [arXiv:hep-ph/9508274]
215. **“Systematics of heavy quark production at HERA”**
S. J. Brodsky, W. K. Tang and P. Hoyer
Phys. Rev. D **52**, 6285 (1995) [arXiv:hep-ph/9506474]
216. **“Precision tests of quantum chromodynamics and the standard model”**
S. J. Brodsky and H. J. Lu
arXiv:hep-ph/9506322
SLAC-PUB-6937(1995)
Invited talk at PASCOS / Hopkins 1995, Baltimore, MD, Mar 22-25, 1995
217. **“W Anomalous moments and the polarization asymmetry zero in gamma $e \rightarrow W$ neutrino”**
S. J. Brodsky, T. G. Rizzo and I. Schmidt
Phys. Rev. D **52**, 4929 (1995) [arXiv:hep-ph/9505441]
218. **“Relativistic corrections to the electromagnetic and axial moments of nuclei and other composite systems”**
F. Schlumpf and S. J. Brodsky
Phys. Lett. B **360**, 1 (1995) [arXiv:hep-ph/9505276]
219. **“Beyond standard quantum chromodynamics”**
S. J. Brodsky
arXiv:hep-ph/9503391
SLAC-PUB-6781(1994)
Talk given at 4th International Conference on Physics Beyond the Standard Model, Lake Tahoe, CA, 13-18 Dec 1994
220. **“Classical photoabsorption sum rules”**
S. J. Brodsky and I. Schmidt
Phys. Lett. B **351**, 344 (1995) [arXiv:hep-ph/9502416]

221. **“Polarization as a probe to the production mechanisms of charmonium in pi N collisions”**
W. K. Tang, S. J. Brodsky, M. Vanttinen and P. Hoyer
arXiv:hep-ph/9408371
SLAC-PUB-6576(1994)
Presented at Workshop on the Future of High Sensitivity Charm Experiments: CHARM2000, Batavia, IL, 7-9 Jun 1994
222. **“Intrinsic charm contribution to double quarkonium hadroproduction”**
R. Vogt and S. J. Brodsky
Phys. Lett. B **349**, 569 (1995) [arXiv:hep-ph/9503206]
223. **“The Impact of QCD and light cone quantum mechanics on nuclear physics”**
S. J. Brodsky and F. Schlumpf
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Talk given at International School of Nuclear Physics: 16th Course: Electromagnetic Probes and the Structure of Hadrons and Nuclei (Euroconference), Erice, Italy, 15 - 23 Sep 1994
224. **“Hadroproduction And Polarization Of Charmonium”**
M. Vanttinen, P. Hoyer, S. J. Brodsky and W. K. Tang
Phys. Rev. D **51**, 3332 (1995) [arXiv:hep-ph/9410237]
225. **“Commensurate scale relations: Precise tests of quantum chromodynamics without scale or scheme ambiguity”**
S. J. Brodsky and H. J. Lu
arXiv:hep-ph/9409462
SLAC-PUB-6683(1994)
Invited talk at Tennessee International Symposium on Radiative Corrections: Status and Outlook, Gatlinburg, TN, 27 Jun - 1 Jul 1994
226. **“High-energy photon-photon collisions”**
S. J. Brodsky and P. M. Zerwas
Nucl. Instrum. Meth. A **355**, 19 (1995) [arXiv:hep-ph/9407362]
Presented at Workshop on Gamma-Gamma Colliders, Berkeley, CA, 28-31 Mar 1994
227. **“Exclusive processes: Tests of coherent QCD phenomena and nucleon substructure at CEBAF”**
S. J. Brodsky
arXiv:hep-ph/9407361
SLAC-PUB-6570(1994)
Invited talk at Workshop on CEBAF at Higher Energies, Newport News, VA, 14-16 Apr 1994
228. **“Atomic alchemy”**
C. Greub, D. Wyler, S. J. Brodsky and C. T. Munger
Phys. Rev. D **52**, 4028 (1995) [arXiv:hep-ph/9405230]
229. **“Commensurate scale relations in quantum chromodynamics”**
S. J. Brodsky and H. J. Lu
Phys. Rev. D **51**, 3652 (1995) [arXiv:hep-ph/9405218]
230. **“QCD and intrinsic heavy quark predictions for leading charm and beauty hadroproduction”**
R. Vogt and S. J. Brodsky
Nucl. Phys. B **438**, 261 (1995) [arXiv:hep-ph/9405236]
231. **“Polarization phenomena in quantum chromodynamics”**
S. J. Brodsky
SLAC-PUB-6450(1994)
Lectures given at 21st Annual SLAC Summer Institute on Particle Physics: Spin Structure in High Energy Processes (School: 26 Jul - 3 Aug, Topical Conference: 4-6 Aug), Stanford, CA, 26 Jul - 6 Aug 1993

232. **“Angular distributions in the Drell-Yan process: A Closer look at higher twist effects”**
A. Brandenburg, S. J. Brodsky, V. V. Khoze and D. Mueller
Phys. Rev. Lett. **73**, 939 (1994) [arXiv:hep-ph/9403361]
233. **“Wave function independent relations between the nucleon axial coupling $g(A)$ and the nucleon magnetic moments”**
S. J. Brodsky and F. Schlumpf
Phys. Lett. B **329**, 111 (1994) [arXiv:hep-ph/9402214]
234. **“Perturbative QCD constraints on the shape of polarized quark and gluon distributions”**
S. J. Brodsky, M. Burkardt and I. Schmidt
Nucl. Phys. B **441**, 197 (1995) [arXiv:hep-ph/9401328]
235. **“Diffractive lepton production of vector mesons in QCD”**
S. J. Brodsky, L. Frankfurt, J. F. Gunion, A. H. Mueller and M. Strikman
Phys. Rev. D **50**, 3134 (1994) [arXiv:hep-ph/9402283]
236. **“Light cone approach”**
S. J. Brodsky
CERN Cour. **33**, 14 (1993)
237. **“Commensurate scale relations: Relating observables in QCD without renormalization scale or scheme ambiguity”**
S. J. Brodsky and H. J. Lu
SLAC-PUB-6389(1993)
Invited talk presented at Leipzig Workshop on Quantum Field Theoretical Aspects of High Energy Physics, Bad Frankenhausen, Germany, Sep 20-24, 1993
238. **“The Challenges of exclusive processes in QCD”**
S. J. Brodsky
SLAC-PUB-6356(1993)
Invited overview talk at International Workshop on Exclusive Reactions at High Momentum Transfer (Precedes the PANIC Conference, Perugia, Italy, 29 Jun - 3 Jul 1993), Elba, Italy, 24-26 Jun 1993
239. **“The reggeon trajectory in exclusive and inclusive large momentum transfer reactions”**
S. J. Brodsky, W. K. Tang and C. B. Thorn
Phys. Lett. B **318**, 203 (1993)
240. **“Photon-photon collisions at the next linear collider: Theory”**
S. J. Brodsky
SLAC-PUB-6314(1993)
Presented at 2nd International Workshop on Physics and Experiments with Linear $e^+ e^-$ Colliders, Waikoloa, HI, 26-30 Apr 1993
241. **“New Perspectives in quantum chromodynamics”**
S. J. Brodsky
SLAC-PUB-6304(1993)
Lectures given at CCAST Symposium on Particle Physics at the Fermi Scale, Beijing, China, 27 May - 4 Jun 1993
242. **“Production of relativistic anti-hydrogen atoms by pair production with positron capture”**
C. T. Munger, S. J. Brodsky and I. Schmidt
Phys. Rev. D **49**, 3228 (1994)
243. **“QED Induced Rapidity Gap Events At The Z Peak”**
H. J. Lu, S. J. Brodsky and V. A. Khoze
Phys. Lett. B **312**, 215 (1993) [arXiv:hep-ph/9305296]
244. **“QCD Without Scale Scheme Ambiguity”**
H. J. Lu and S. J. Brodsky
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245. **“Novel spin effects in quantum chromodynamics”**
S. J. Brodsky
SLAC-PUB-6068(1993)
Invited talk given at 10th International Symposium on High-Energy Spin Physics (SPIN 92 - 35th Yamada Conference), Nagoya, Japan, 9-14 Nov 1992
246. **“Quantum chromodynamics on the light cone”**
S. J. Brodsky
SLAC-PUB-6029(1992) (Submitted to CERN Courier)
247. **“QCD prospects in anti-proton proton annihilation at SuperLEAR”**
J. M. Brom, S. J. Brodsky, L. Montanet, S. Narison and M. Poulet
Nucl. Phys. Proc. Suppl. **8**, 73 (1989)
248. **“On the selfconsistency of scale setting methods”**
S. J. Brodsky and H. J. Lu
arXiv:hep-ph/9211308
SLAC-PUB-6000(1992) (Submitted to Phys.Lett.B)
249. **“Relating physical observables in QCD without scale - scheme ambiguity”**
H. J. Lu and S. J. Brodsky
Phys. Rev. D **48**, 3310 (1993) [arXiv:hep-ph/9211254]
250. **“A Bound on the energy loss of partons in nuclei”**
S. J. Brodsky and P. Hoyer
Phys. Lett. B **298**, 165 (1993) [arXiv:hep-ph/9210262]
251. **“Production of relativistic anti-hydrogen atoms by pair production with positron capture and measurement of the Lamb shift”**
C. T. Munger, S. J. Brodsky and I. Schmidt
SLAC-PUB-5939(1992)
Presented at Anti-hydrogen Workshop, Munich, Germany, 30-31 Jul 1992
252. **“QCD on the light cone”**
S. J. Brodsky
SLAC-PUB-5917(1992)
Talk given at Workshop on QCD: 20 Years Later, Aachen, Germany, 9-13 Jun 1992
253. **“Review of ‘Quantum Electrodynamics’ by T. Kinoshita, World Scientific”**
S. J. Brodsky
SLAC-PUB-5838(1992) (Submitted to Phys. Today)
254. **“Exclusive two photon processes: Tests of QCD at the amplitude level”**
S. J. Brodsky
SLAC-PUB-5849(1992)
Presented at 9th Int. Workshop on Photon-Photon Collisions, San Diego, CA, Mar 22-26, 1992
255. **“The Challenge Of Light Cone Quantization Of Gauge Field Theory”**
S. J. Brodsky, G. McCartor, H. C. Pauli and S. S. Pinsky
Part. World **3**, 109 (1993)
256. **“Systematics Of Charm Production In Hadronic Collisions”**
R. Vogt, S. J. Brodsky and P. Hoyer
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257. **“Rapidity Gap Events In E+ E- Annihilation”**
J. D. Bjorken, S. J. Brodsky and H. J. Lu
Phys. Lett. B **286**, 153 (1992)
258. **“Universal Properties Of The Electromagnetic Interactions Of Spin One Systems”**
S. J. Brodsky and J. R. Hiller
Phys. Rev. D **46**, 2141 (1992)

259. **“The Space-time structure of deep inelastic lepton - hadron scattering”**
V. Del Duca, S. J. Brodsky and P. Hoyer
Phys. Rev. D **46**, 931 (1992)
260. **“Novel QCD effects in nuclear collisions”**
S. J. Brodsky
Nucl. Phys. A **544**, 223C (1992)
Invited talk given at Quark Matter '91: The 9th Int. Conf. on ultrarelativistic Nucleus-Nucleus Collisions, Gatlinburg, TN, Nov 11-15, 1991
261. **“Perturbation theory in light cone quantization”**
A. Langnau and S. J. Brodsky
J. Comput. Phys. **109**, 84 (1993)
262. **“New QCD production mechanisms for hard processes at large x”**
S. J. Brodsky, P. Hoyer, A. H. Mueller and W. K. Tang
Nucl. Phys. B **369**, 519 (1992)
263. **“Light cone quantization of quantum chromodynamics”**
S. J. Brodsky and H. C. Pauli
Lect. Notes Phys. **396**, 51 (1991)
Invited lectures given at 30th Schladming Winter School in Particle Physics: Field Theory, Schladming, Austria, Feb 27 - Mar 8, 1991
264. **“Heavy quark physics in quantum chromodynamics”**
S. J. Brodsky
SLAC-PUB-5529(1991)
Invited lectures presented at the Lake Louise Winter Institute: Particle Physics - The Factory Era, Lake Louise, Canada, Feb 17-23, 1991
265. **“Discretized Light Cone Quantization: Formalism For Quantum Electrodynamics”**
A. C. Tang, S. J. Brodsky and H. C. Pauli
Phys. Rev. D **44**, 1842 (1991)
266. **“Systematics of J / psi production in nuclear collisions”**
R. Vogt, S. J. Brodsky and P. Hoyer
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267. **“Novel tests of quantum chromodynamics in electroproduction”**
S. J. Brodsky and P. Hoyer
Nucl. Phys. A **532**, 79C (1991)
Invited talk at European Workshop on Hadronic Physics with Electrons Beyond 10 GeV, Dourdan, France, Oct 8-12, 1990
268. **“The Intrinsic short distance structure of hadrons in QCD”**
S. J. Brodsky
SLAC-PUB-5382(1990)
Invited lectures given at 28th Int. School of Subnuclear Physics: Physics up to 200-TeV, Erice, Italy, Jul 16-24, 1990
269. **“Short range structure of hadron and nuclear wave functions at high X”**
P. Hoyer and S. J. Brodsky
SLAC-PUB-5374(1990)
Invited talk given at Topical Conf. on Particle Production near Threshold, Nashville, IN, Sep 30 - Oct 3, 1990
270. **“Novel nuclear and heavy quark phenomena in QCD”**
S. J. Brodsky
Nucl. Phys. Proc. Suppl. **23B**, 157 (1991)
Invited talk given at QCD Workshop 1990: Montpellier, France, Jul 8-13, 1990

271. **“Anti-proton annihilation in nuclei as a probe of QCD”**
 S. J. Brodsky
 SLAC-PUB-5343(1990)
Invited talk given at 1st Biennial Conf. on Low-Energy Antiproton Physics, Stockholm, Sweden, Jul 2-6, 1990
272. **“Bound state quark and gluon contributions to structure functions in QCD”**
 S. J. Brodsky
 Nucl. Phys. Proc. Suppl. **18C**, 196 (1990)
Invited talk given at DESY Topical Mtg.: Small x Behavior of Deep Inelastic Structure Functions in QCD, Hamburg, Germany, May 14-16, 1990
273. **“Quantum chromodynamics at small x : Conference summary of DESY topical meeting”**
 S. J. Brodsky
 Nucl. Phys. Proc. Suppl. **18C**, 226 (1991)
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274. **“Theoretical Results For Sixth Order Contributions To The Anomalous Magnetic Moment Of The Muon And Electron”**
 S. J. Brodsky and T. Kinoshita
 CLNS-116(1970)
275. **“Parton Model And Inelastic Processes With Two Photons”**
 S. J. Brodsky and P. Roy
 Phys. Rev. D **3**, 2914 (1971)
276. **“Radiative Level Shifts. 3. Hyperfine Structure In Hydrogenic Atoms”**
 S. J. Brodsky and G. W. Erickson
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277. **“Deep Inelastic Scattering Of Electrons On A Photon Target”**
 S. J. Brodsky, T. Kinoshita and H. Terazawa
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278. **“Dominant Colliding Beam Cross-Sections At High-Energies”**
 S. J. Brodsky, T. Kinoshita and H. Terazawa
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279. **“Effects Of Polarization On The Detection Of The Intermediate Boson”**
 S. J. Brodsky and M. Kugler
 Phys. Rev. Lett. **16**, 65 (1966)
280. **“Vacuum Polarization Contributions To The Sixth Order Anomalous Magnetic Moment Of The Muon And Electron”**
 S. J. Brodsky and T. Kinoshita
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281. **“Timelike Momenta In Quantum Electrodynamics”**
 S. J. Brodsky and S. C. C. Ting
 Phys. Rev. **145**, 1018 (1966)
282. **“Bound valence - quark contributions to hadron structure functions”**
 S. J. Brodsky and I. A. Schmidt
 Phys. Rev. D **43**, 179 (1991)
283. **“NUCLEAR CHROMODYNAMICS: QUARKS AND GLUONS IN PARTICLES AND NUCLEI. PROCEEDINGS, WORKSHOP, SANTA BARBARA, USA, AUGUST 12-23, 1985”**
 S. J. (. Brodsky and E. J. (. Moniz
Singapore, Singapore: World Scientific (1986) 520 p

284. **“Z Diagrams Of Composite Objects”**
T. Jaroszewicz and S. J. Brodsky
Phys. Rev. C **43**, 1946 (1991)
285. **“PERTURBATIVE QCD EFFECTS IN HEAVY MESON DECAYS”**
A. Szczepaniak, E. M. Henley and S. J. Brodsky
Phys. Lett. B **243**, 287 (1990)
286. **“GAMMA GAMMA PHYSICS”**
D. J. Miller *et al.*
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287. **“CHALLENGES TO QUANTUM CHROMODYNAMICS: ANOMALOUS SPIN, HEAVY QUARK AND NUCLEAR PHENOMENA”**
S. J. Brodsky
SLAC-PUB-5116(1989)
Invited lectures given at 27th Int. School of Subnuclear Physics: The Challenging Questions, Erice, Italy, Jun 26 - Aug 3, 1989
288. **“POLARIZED AND UNPOLARIZED INTRINSIC GLUON DISTRIBUTIONS”**
S. J. Brodsky and I. A. Schmidt
Phys. Lett. B **234**, 144 (1990)
289. **“Shadowing and Antishadowing of Nuclear Structure Functions”**
S. J. Brodsky and H. J. Lu
Phys. Rev. Lett. **64**, 1342 (1990)
290. **“NUCLEAR BOUND QUARKONIUM”**
S. J. Brodsky, I. A. Schmidt and G. F. de Teramond
Phys. Rev. Lett. **64**, 1011 (1990)
291. **“TESTS OF QUANTUM CHROMODYNAMICS IN EXCLUSIVE $e^+ e^-$ AND gamma gamma PROCESSES”**
S. J. Brodsky
SLAC-PUB-5088(1989)
Presented at Tau Charm Factory Workshop, Stanford, CA, May 23-27, 1989
292. **“COLOR TRANSPARENCY AND THE STRUCTURE OF THE PROTON IN QUANTUM CHROMODYNAMICS”**
S. J. Brodsky
SLAC-PUB-5082(1989)
293. **“GENERAL QED / QCD ASPECTS OF SIMPLE SYSTEMS”**
V. L. Telegdi and S. J. Brodsky
SLAC-PUB-5095(1989)
Presented at Symp. on the Hydrogen Atom, Pisa, Italy, Jun 30 Jul 2, 1988
294. **“TESTS OF QUANTUM CHROMODYNAMICS IN EXCLUSIVE AND INCLUSIVE ELECTROPRODUCTION”**
S. J. Brodsky
SLAC-PUB-5013(1989)
Presented at Topical Conf. on Electronuclear Physics with Internal Targets, Stanford, CA, Jan 9-12, 1989
295. **“Exclusive Processes In Quantum Chromodynamics”**
S. J. Brodsky and G. P. Lepage
Adv. Ser. Direct. High Energy Phys. **5**, 93 (1989)
296. **“THE NUCLEUS AS A COLOR FILTER IN QCD DECAYS: HADROPRODUCTION IN NUCLEI”**
S. J. Brodsky and P. Hoyer
Phys. Rev. Lett. **63**, 1566 (1989)

297. **“EFFECTS OF INITIAL STATE QCD INTERACTIONS IN THE DRELL-YAN PROCESS”**
 G. T. Bodwin, S. J. Brodsky and G. P. Lepage
 Phys. Rev. D **39**, 3287 (1989)
298. **“Light Cone Quantized QCD in (1+1)-Dimensions”**
 K. Hornbostel, S. J. Brodsky and H. C. Pauli
 Phys. Rev. D **41**, 3814 (1990)
Talk presented to Workshop on Relativistic Many Body Physics, Columbus, Ohio, Jun 6-9, 1988
299. **“ANTI-PROTON ANNIHILATION IN QUANTUM CHROMODYNAMICS”**
 S. J. Brodsky
 SLAC-PUB-4749(1988)
Invited lectures given at Int. School of Physics with Low-Energy Antiprotons: 3rd Course: Antiproton - Nucleon and Antiproton - Nucleus Interactions, Erice, Italy, Jun 10-18, 1988
300. **“NUCLEAR EFFECTS IN J / psi AND LEPTON PAIR PRODUCTION”**
 S. J. Brodsky
 SLAC-PUB-4713(1988)
Invited talk given at Parallel Session on Heavy Ion Collisions of 24th Int. Conf. on High Energy Physics, Munich, West Germany, Aug 4- 10, 1988
301. **“PHOTON-PHOTON COLLISIONS”**
 S. J. Brodsky
 SLAC-PUB-4648(1988)
Summary talk given at 8th Int. Workshop on Photon-Photon Collisions, Jerusalem, Israel, Apr 24-28, 1988
302. **“TOPICS IN NUCLEAR CHROMODYNAMICS: COLOR TRANSPARENCY AND HADRONIZATION IN THE NUCLEUS”**
 S. J. Brodsky
 SLAC-PUB-4551(1988)
Invited talk given at 3rd Lake Louise Winter Inst. on QCD: Theory and Experiment, Lake Louise, Canada, Mar 6-12, 1988
303. **“Using Nuclei to Probe Hadronization in QCD”**
 S. J. Brodsky and A. H. Mueller
 Phys. Lett. B **206**, 685 (1988)
304. **“Chiral Symmetry and the Spin of the Proton”**
 S. J. Brodsky, J. R. Ellis and M. Karliner
 Phys. Lett. B **206**, 309 (1988)
305. **“Spin Correlations, QCD Color Transparency and Heavy Quark Thresholds in Proton Proton Scattering”**
 S. J. Brodsky and G. F. de Teramond
 Phys. Rev. Lett. **60**, 1924 (1988)
306. **“(G-2) OF THE MUON FROM COMPOSITENESS IN THE MODEL OF ABBOTT AND FARHI”**
 A. J. Davies, S. J. Brodsky and R. R. Volkas
 Phys. Rev. D **39**, 2797 (1989)
307. **“TESTING QUANTUM CHROMODYNAMICS IN ANTI-PROTON REACTIONS”**
 S. J. Brodsky
 SLAC-PUB-4451(1987)
Presented at 4th LEAR Workshop, Villars-Sur-Ollon, Switzerland, Sep 6-13, 1987
308. **“NOVEL NUCLEAR PHENOMENA IN QUANTUM CHROMODYNAMICS”**
 S. J. Brodsky
 SLAC-PUB-4387(1987)
Presented at the Int. Symp. on Medium Energy Physics, Beijing, China, Jun 23-27, 1987

309. **“QUANTIZATION ON THE LIGHT CONE: RESPONSE TO A COMMENT BY C.R. HAGEN”**
 K. Hornbostel, S. J. Brodsky and H. C. Pauli
 Phys. Rev. D **37**, 2363 (1988)
310. **“Hadronic And Nuclear Phenomena In Quantum Chromodynamics”**
 S. J. Brodsky
 SLAC-PUB-4342(1987)
Presented at 8th Nuclear and Particle Physics Summer School, Launceston, Australia, Feb 2-6, 1987
311. **“A HIGHER TWIST CORRECTION TO HEAVY QUARK PRODUCTION”**
 S. J. Brodsky, J. F. Gunion and D. E. Soper
 OITS-359(1987)
Invited talk given at 22nd Rencontre de Moriond, Les Arcs, France, Mar 8-15, 1987
312. **“TWO PHOTON EXCLUSIVE MESON PRODUCTION AT LARGE ANGLES”**
 S. J. Brodsky, F. C. Erne, P. H. Damgaard and P. M. Zerwas
 NIKHEF-H/87-4(1987)
Contribution to ECFA Workshop LEP200, Aachen, West Germany, Sep 29 - Oct 1, 1986
313. **“EXCLUSIVE CHARMONIUM DECAYS: THE J / ψ (ψ -prime) \rightarrow rho pi, K^* anti- K PUZZLE”**
 S. J. Brodsky, G. P. Lepage and S. F. Tuan
 Phys. Rev. Lett. **59**, 621 (1987)
314. **“THE PHYSICS OF HEAVY QUARK PRODUCTION IN QUANTUM CHROMODYNAMICS”**
 S. J. Brodsky, J. F. Gunion and D. E. Soper
 Phys. Rev. D **36**, 2710 (1987)
315. **“TESTING QUANTUM CHROMODYNAMICS IN ELECTROPRODUCTION”**
 S. J. Brodsky
 SLAC-PUB-4323(1987)
Presented at the NPAS Workshop on Electronuclear Physics with Internal Targets, Stanford, Calif., Jan 5-8, 1987
316. **“HADRON PRODUCTION NEAR THRESHOLD IN PHOTON-PHOTON COLLISIONS”**
 S. J. Brodsky, G. Kopp and P. M. Zerwas
 Phys. Rev. Lett. **58**, 443 (1987)
317. **“Heavy Quark Production In Quantum Chromodynamics”**
 S. J. Brodsky
 SLAC-PUB-4018(1986)
Presented at 23rd Int. Conf. on High Energy Physics, Berkeley, CA, Jul 16-23, 1986
318. **“Discretized Light Cone Quantization: The Massless and the Massive Schwinger Model”**
 T. Eller, H. C. Pauli and S. J. Brodsky
 Phys. Rev. D **35**, 1493 (1987)
319. **“TWO PHOTON EXCLUSIVE PROCESSES IN QUANTUM CHROMODYNAMICS”**
 S. J. Brodsky
 SLAC-PUB-4022(1986)
Invited talk given at 7th Int. Workshop on Photon-Photon Collisions, Paris, France, Apr 1-5, 1986
320. **“PROBING QCD IN LOW-ENERGY anti-p p COLLISIONS”**
 S. J. Brodsky
 SLAC-PUB-4010(1986)
Prepared for 1st Workshop on Antimatter Physics at Low-energy, Batavia, Illinois, 10-12 Apr 1986
321. **“THE QUARK MASS AND SPIN EFFECTS IN THE MESONIC STRUCTURE”**
 T. Huang, X. n. Wang, X. d. Xiang and S. J. Brodsky
 Phys. Rev. D **35**, 1013 (1987)

322. **“Laser Induced Axion Photoproduction”**
S. J. Brodsky, E. Mottola, I. J. Muzinich and M. Soldate
Phys. Rev. Lett. **56**, 1763 (1986) [Erratum-ibid. **57**, 502 (1986)]
323. **“Quantum Chromodynamic Evolution Of Six Quark States”**
C. R. Ji and S. J. Brodsky
Phys. Rev. D **34**, 1460 (1986)
324. **“Exclusive Hadronic And Nuclear Processes In QCD”**
S. J. Brodsky
SLAC-PUB-3857(1985)
Invited talk given at Nuclear Chromodynamics: Quarks and Gluons in Particles and Nuclei, Santa Barbara, CA, Aug 12-23, 1985
325. **“QCD Mechanisms For Heavy Particle Production”**
S. J. Brodsky
SLAC-PUB-3770(1985)
Invited talk given at 16th Int. Symp. on Multiparticle Dynamics, Kiryat-Anavim, Israel, Jun 9-14, 1985
326. **“Applications Of Quantum Chromodynamics To Hadronic And Nuclear Interactions”**
S. J. Brodsky and C. R. Ji
Lect. Notes Phys. **248**, 153 (1986)
Invited lectures given at Stellenbosch Advanced Course in Theoretical Physics (Quarks and Leptons), Jan 21 - Feb 1, 1985
327. **“Quantum Chromodynamic Evolution Of The Baryon System”**
S. J. Brodsky and C. R. Ji
Phys. Rev. D **33**, 1951 (1986)
328. **“Evolution Of Relativistic Multi - Quark Systems”**
S. J. Brodsky and C. R. Ji
Phys. Rev. D **33**, 1406 (1986)
329. **“Factorization Property Of The Deuteron”**
S. J. Brodsky and C. R. Ji
Phys. Rev. D **33**, 2653 (1986)
330. **“Exclusive Production Of Higher Generation Hadrons And Form-Factor Zeros In Quantum Chromodynamics”**
S. J. Brodsky and C. R. Ji
Phys. Rev. Lett. **55**, 2257 (1985)
331. **“On The Application Of Conformal Symmetry To Quantum Field Theory”**
S. J. Brodsky, Y. Frishman and G. P. Lepage
Phys. Lett. B **167**, 347 (1986)
332. **“Solving Field Theory In One Space One Time Dimension”**
H. C. Pauli and S. J. Brodsky
Phys. Rev. D **32**, 1993 (1985)
333. **“Discretized Light Cone Quantization: Solution To A Field Theory In One Space One Time Dimensions”**
H. C. Pauli and S. J. Brodsky
Phys. Rev. D **32**, 2001 (1985)
334. **“Factorization Of The Drell-Yan Cross-Section”**
G. T. Bodwin, S. J. Brodsky and G. P. Lepage
ANL-HEP-CP-85-32(1985)
Presented at 20th Rencontre de Moriond, Les Arcs, France, Mar 10-17, 1985

335. **“Breeding New Light Into Old Machines (And New)”**
 J. Spencer and S. J. Brodsky
 IEEE Trans. Nucl. Sci. **32**, 3430 (1985)
Poster paper given at 1985 Particle Accelerator Conf., Vancouver, B.C., Canada, May 13-16, 1985
336. **“Evolution Equation And Relativistic Bound State Wave Functions For Scalar Field Models In Four And Six-Dimensions”**
 S. J. Brodsky, C. R. Ji and M. Sawicki
 Phys. Rev. D **32**, 1530 (1985)
337. **“Photon-Photon Collisions”**
 S. J. Brodsky
 SLAC-PUB-3547(1985)
Summary talk given at 6th Int. Conf. on Photon-Photon Collisions, Lake Tahoe, CA, Sep 10-13, 1984
338. **“Hadronic Wave Functions And High Momentum Transfer Interactions In Quantum Chromodynamics”**
 S. J. Brodsky, T. Huang and G. P. Lepage
*In *Banff 1981, Proceedings, Particles and Fields 2*, 143-199*
339. **“Heavy Quark Production Processes In QCD”**
 S. J. Brodsky and J. F. Gunion
In the Proceedings of 12th SLAC Summer Institute on Particle Physics: The Sixth Quark (Topical Conference the last 3 days) (SSI 84), Stanford, California, 23 Jul - 3 Aug 1984, pp 025
 SLAC-PUB-3527(1984)
Invited talk given at 12th SLAC Summer Inst. on Particle Physics, Stanford, CA, Jul 23 - Aug 3, 1984
340. **“Recent Developments In The Theory Of Photon-Photon Collisions”**
 S. J. Brodsky
 SLAC-PUB-3440(1984)
Invited talk at Int. Conf. on High Energy Physics, Leipzig, East Germany, Jul 19-25, 1984
341. **“Higher Twist, Heavy Quark, And Coherent Phenomena In QCD”**
 S. J. Brodsky
 SLAC-PUB-3438(1984)
Invited talk given at 22nd Int. Conf. on High Energy Physics, Leipzig, East Germany, Jul 19-25, 1984
342. **“Intrinsic Chevrolets At The Ssc”**
 S. J. Brodsky, J. C. Collins, S. D. Ellis, J. F. Gunion and A. H. Mueller
 DOE/ER/40048-21 P4(1984)
Submitted to Proc. of 1984 Summer Study on the SSC, Snowmass, CO, Jun 23 - Jul 13, 1984
343. **“Coherent QCD Radiation From Active And Spectator Jets At The Ssc”**
 S. J. Brodsky
 SLAC-PUB-3429(1984)
Contributed to 1984 Summer Study on Design and Utilization of Superconducting Super Collider, Snowmass, CO, Jun 23 - Jul 13, 1984
344. **“Nuclear Chromodynamics: Applications Of QCD To Relativistic Multi - Quark Systems”**
 S. J. Brodsky and C. R. Ji
 Comments Nucl. Part. Phys. **13**, 213 (1984)
Lectures given at Int. School of Nuclear Physics, Erice, Italy, Apr 8-20, 1984
345. **“Quantum Chromodynamic Evolution Of Multi - Quark Systems”**
 C. R. Ji and S. J. Brodsky
 SLAC-PUB-3340(1984)
Invited talk given at Conf. on Intersections Between Particle and Nuclear Physics, Steamboat Springs, CO, May 23-30, 1984
346. **“Conformal Symmetry: Exclusive Processes Beyond Leading Order”**
 S. J. Brodsky, P. Damgaard, Y. Frishman and G. P. Lepage
 Phys. Rev. D **33**, 1881 (1986)

347. **“Heavy Particle Production At The Ssc”**
 S. J. Brodsky, H. E. Haber and J. F. Gunion
 SLAC-PUB-3300(1984)
Invited paper given at DPF Workshop on anti-p p Options for Super Collider, Chicago, IL, Feb 13-17, 1984
348. **“Applied Chromodynamics”**
 S. J. Brodsky
 Acta Phys. Polon. B **15**, 1059 (1984)
Invited lectures presented at the 23rd Cracow School of Theoretical Physics: Fundamental Interactions and Structure of Matter, Zakopane, Poland, May 29 - Jun 11, 1983
349. **“Nuclear Chromodynamics: Implications Of QCD For Nuclear Physics”**
 S. J. Brodsky
 SLAC-REPRINT-1983-003() Published in Short-Distance Phenomena in Nuclear Physics, ed. David H. Boal, Richard M. Woloshyn, New York Plenum, p.141-217, 1983.
350. **“Nuclear Chromodynamics: Applications Of Quantum Chromodynamics To Few Nucleon Systems”**
 S. J. Brodsky
 Comments Nucl. Part. Phys. **12**, 213 (1984)
351. **“Quantum Chromodynamics In Few Nucleon Systems”**
 S. J. Brodsky
 SLAC-PUB-3249(1983)
Invited talk given at 10th Int. Conf. on Few Body Problems in Physics, Karlsruhe, West Germany, Aug 21-27, 1983
352. **“Factorization And Other Novel Effects In QCD”**
 S. J. Brodsky
 SLAC-PUB-3219(1983)
Invited talk given at 3rd Int. Conf. on Physics in Collision, Como, Italy, Aug 31 - Sep 2, 1983
353. **“Problems At The Interface Between Perturbative And Nonperturbative Quantum Chromodynamics”**
 S. J. Brodsky, G. T. Bodwin and G. P. Lepage
 SLAC-PUB-3136(1983)
Invited talk given at Workshop on Nonperturbative QCD, Stillwater, OK, Mar 7-9, 1983
354. **“Baryon Wave Functions And Nucleon Decay”**
 S. J. Brodsky, J. R. Ellis, J. S. Hagelin and C. T. Sachrajda
 Nucl. Phys. B **238**, 561 (1984)
355. **“Quantum Chromodynamic Predictions For The Deuteron Form-Factor”**
 S. J. Brodsky, C. R. Ji and G. P. Lepage
 Phys. Rev. Lett. **51**, 83 (1983)
356. **“Reduced Nuclear Amplitudes In Quantum Chromodynamics”**
 S. J. Brodsky and J. R. Hiller
 Phys. Rev. C **28**, 475 (1983) [Erratum-ibid. C **30**, 412 (1984)]
357. **“A Unified Approach To QCD Phenomenology”**
 S. J. Brodsky
 SLAC-PUB-3034(1983)
Invited talk given at 1982 Mtg. of Div. of Particles and Fields of APS, College Park, Md., Oct 28-30, 1982
358. **“Higher Twist Contributions To Lepton Pair Production And Other QCD Processes”**
 S. J. Brodsky, E. L. Berger and G. P. Lepage
 SLAC-PUB-3027(1982)
Presented at Workshop on Drell-Yan Processes, Batavia, Ill., Oct 7-8, 1982

359. **“Classical Radiation Zeros In Gauge Theory Amplitudes”**
R. W. Brown, K. L. Kowalski and S. J. Brodsky
Phys. Rev. D **28**, 624 (1983)
360. **“On The Elimination Of Scale Ambiguities In Perturbative Quantum Chromodynamics”**
S. J. Brodsky, G. P. Lepage and P. B. Mackenzie
Phys. Rev. D **28**, 228 (1983)
361. **“Testing Quantum Chromodynamics”**
S. J. Brodsky
SLAC-PUB-2970(1982)
Closing lecture given at 13th Int. Symp. on Multiparticle Dynamics, Volendam, Netherlands, Jun 6-11, 1982
362. **“Breakdown Of QCD Factorization Theorems For Inclusive Reactions”**
S. J. Brodsky, G. T. Bodwin and G. P. Lepage
SLAC-PUB-2966(1982)
Presented at 13th Int. Symp. on Multiparticle Dynamics, Volendam, Netherlands, Jun 6-11, 1982
363. **“Nuclear Chromodynamics”**
S. J. Brodsky
PRINT-82-0613 (IAS,PRINCETON)(1982)
Invited talk given at Conf 'New Horizons in Electromagnetic Physics', Charlottesville, Va., Apr 21-24, 1982
364. **“Analysis Of Initial And Final State Interactions In Quantum Chromodynamics”**
G. T. Bodwin, S. J. Brodsky and G. P. Lepage
SLAC-PUB-2927(1982) (Submitted to Phys. Rev. D)
365. **“Exclusive Processes And Hadron Dynamics At Short Distances. (Talk)”**
S. J. Brodsky and G. P. Lepage
*In *Bruges 1980, Proceedings, Multiparticle Dynamics*, 715-766*
366. **“Zeros In Amplitudes: Gauge Theory And Radiation Interference”**
S. J. Brodsky and R. W. Brown
Phys. Rev. Lett. **49**, 966 (1982)
367. **“Heavy Quarks In Hadronic Collisions”**
S. J. Brodsky and C. Peterson
AIP Conf. Proc. **85**, 79 (1982)
Invited talk given at 2nd Topical Workshop on Forward Collider Physics, Madison, Wis., Dec 10-12, 1981
368. **“Hadronic And Nuclear Interactions In QCD”**
S. J. Brodsky, T. Huang and G. P. Lepage
Springer Tracts Mod. Phys. **100**, 81 (1982)
Based on lectures given at 9th SLAC Summer Inst. on Particle Physics, Stanford, Calif., Jul 27 - Aug 7, 1981 and at Banff Summer Inst. in Particles and Fields, Banff, Canada, Aug 16-28, 1981 and at KFK Summer School '81, Quarks and Nuclear Forces, Bad Liebenzell, Germany, Sep 27 - Oct 3, 1981
369. **“Initial State Interactions, Factorization, And The Drell-Yan Process”**
G. T. Bodwin, S. J. Brodsky and G. P. Lepage
SLAC-PUB-2860(1981)
Presented at 1981 Banff Summer School on Particles and Fields, Alberta, Canada, Aug 16-28, 1981
370. **“Hadronic Wave Functions In QCD”**
G. P. Lepage, S. J. Brodsky, T. Huang and P. B. Mackenzie
CLNS-82-522(1982)
Invited talk given at Banff Summer Inst. on Particle Physics, Banff, Alberta, Canada, Aug 16-28, 1981

371. **“Quantum Chromodynamics And Hadronic Interactions At Short Distances”**
 S. J. Brodsky, T. Huang and G. P. Lepage
 SLAC-PUB-2857(1981)
Presented at 9th SLAC Summer Inst. on Particle Physics, Stanford, Calif., Jul 27 - Aug 7, 1981
372. **“Initial State Interactions And The Drell-Yan Process”**
 G. T. Bodwin, S. J. Brodsky and G. P. Lepage
 Phys. Rev. Lett. **47**, 1799 (1981)
373. **“Fundamental Tests And Measures Of The Structure Of Matter At Short Distances”**
 S. J. Brodsky
 SLAC-PUB-2776(1981)
Invited talk given at 2nd Int. Conf. on Precision Measurement and Fundamental Constants, Gaithersburg, Md., Jun 8-12, 1981
374. **“Exclusive Processes In Quantum Chromodynamics”**
 S. J. Brodsky and G. P. Lepage
 SLAC-PUB-2762(1981)
Invited talk given at Conf. on Perturbative QCD, Tallahassee, Fla., Mar 25-28, 1981
375. **“Helicity Selection Rules And Tests Of Gluon Spin In Exclusive QCD Processes”**
 S. J. Brodsky and G. P. Lepage
 Phys. Rev. D **24**, 2848 (1981)
376. **“Diffractive Excitation In QCD”**
 G. Bertsch, S. J. Brodsky, A. S. Goldhaber and J. F. Gunion
 Phys. Rev. Lett. **47**, 297 (1981)
377. **“Direct Coupling Of The Pion In Large P(T) Jet Interactions”**
 E. L. Berger and S. J. Brodsky
 Phys. Rev. D **24**, 2428 (1981)
378. **“Two Photon Physics As A Probe Of Hadron Dynamics”**
 S. J. Brodsky
 SLAC-PUB-2747(1981)
Invited talk given at 4th Int. Colloq. on Photon-Photon Interactions, Paris, France, Apr 6-9, 1981
379. **“Large Angle Two Photon Exclusive Channels In Quantum Chromodynamics”**
 S. J. Brodsky and G. P. Lepage
 Phys. Rev. D **24**, 1808 (1981)
Invited talk given at 4th Int. Colloq. on Photon-Photon Interactions, Paris France, Apr 6-9, 1981
380. **“Intrinsic Heavy Quark States”**
 S. J. Brodsky, C. Peterson and N. Sakai
 Phys. Rev. D **23**, 2745 (1981)
381. **“Spin Effects In Perturbative Quantum Chromodynamics”**
 S. J. Brodsky and G. P. Lepage
 SLAC-PUB-2656(1980)
Invited talk given at 1980 Int. Symp. on High Energy Physics with Polarized Beams and Polarized Targets Lausanne, Switzerland, Sep 25 - Oct 1, 1980
382. **“Exclusive Process And Hadron Dynamics At Short Distances”**
 S. J. Brodsky and G. P. Lepage
 Phys. Scripta **23**, 945 (1981)
Invited talk at 11th Inst. Symp. on Multiparticle Dynamics, Bruges, Belgium, Jun 22-27, 1980 and submitted to Symp. on Topical Questions in QCD, Copenhagen, Denmark, Jun 9-13, 1980
383. **“The Synthesis Of Quantum Chromodynamics And Nuclear Physics”**
 S. J. Brodsky and G. P. Lepage
 Nucl. Phys. A **353**, 247C (1981)
Invited talk given at 9th Int. Conf. on the Few Body Problem, Eugene, Oregon, Aug 17-23, 1980

384. **“Structure Functions And High Twist Contributions In Perturbative Quantum Chromodynamics”**
 S. J. Brodsky and G. P. Lepage
 AIP Conf. Proc. **68**, 805 (1981)
Presented at 20th Int. Conf. on High Energy Physics, Madison, Wisc., Jul 17-23, 1980
385. **“Weak And Electromagnetic Form-Factors Of Baryons At Large Momentum Transfer”**
 S. J. Brodsky, G. P. Lepage and S. A. A. Zaidi
 Phys. Rev. D **23**, 1152 (1981)
386. **“Exclusive Two Photon Processes In Quantum Chromodynamics”**
 S. J. Brodsky and G. P. Lepage
 SLAC-PUB-2587(1980)
Invited talk given at 20th Int. Conf. on High Energy Physics, Madison, Wisc., Jul 17-23, 1980
387. **“The Hadronic Wave Function In Quantum Chromodynamics”**
 S. J. Brodsky, T. Huang and G. P. Lepage
 SLAC-PUB-2540(1980)
Shorter version contributed to 20th Int. Conf. on High Energy Physics, Madison, Wisc., Jul 17-23, 1980
388. **“The Anomalous Magnetic Moment And Limits On Fermion Substructure”**
 S. J. Brodsky and S. D. Drell
 Phys. Rev. D **22**, 2236 (1980)
389. **“Exclusive Processes In Perturbative Quantum Chromodynamics”**
 G. P. Lepage and S. J. Brodsky
 Phys. Rev. D **22**, 2157 (1980)
390. **“The Intrinsic Charm Of The Proton”**
 S. J. Brodsky, P. Hoyer, C. Peterson and N. Sakai
 Phys. Lett. B **93**, 451 (1980)
391. **“Hadronic Wave Functions At Short Distances And The Operator Product Expansion”**
 S. J. Brodsky, Y. Frishman, G. P. Lepage and C. T. Sachrajda
 Phys. Lett. B **91**, 239 (1980)
392. **“Tests Of Perturbative Quantum Chromodynamics In Photon - Photon Collisions”**
 S. J. Brodsky
 SLAC-PUB-2464(1980)
Invited talk given at 1979 Int. Conf. on Two Photon Interactions, Lake Tahoe, Calif., Aug 30 - Sep 1, 1979
393. **“Perturbative Quantum Chromodynamics”**
 S. J. Brodsky and G. P. Lepage
 SLAC-PUB-2447(1979)
Presented at Summer Inst. on Particle Physics, SLAC, Stanford, Calif., Jul 9-20, 1979
394. **“Quantum Electrodynamics And The Theory Of The Hydrogen Atom”**
 S. J. Brodsky
*In *Brandeis Univ 1969, Proceedings, Atomic Physics and Astrophysics, Vol.1*, New York 1971, 91-169*
395. **“International Colloquium On Photon - Photon Collisions In Electron - Positron Storage Rings, Paris, College De France, 3-4 September 1973”**
 S. J. Brodsky *et al.*
J.Physique 35 Suppl.3 (1974) C2-1 - C2-125
396. **“Nuclear Phenomena And The Short Distance Structure Of Hadrons”**
 S. J. Brodsky
 SLAC-PUB-2395(1979)

Invited talk given at 1st Workshop on Ultra-Relativistic Nuclear Collisions, Berkeley, Calif., May 21-24, 1979

397. **“Perturbative Contributions To Quark Masses”**
S. J. Brodsky, G. F. de Teramond and I. A. Schmidt
Phys. Rev. Lett. **44**, 557 (1980)
398. **“Exclusive Processes In Quantum Chromodynamics: Evolution Equations For Hadronic Wave Functions And The Form-Factors Of Mesons”**
G. P. Lepage and S. J. Brodsky
Phys. Lett. B **87**, 359 (1979)
399. **“Exclusive Processes In Quantum Chromodynamics: The Form-Factors Of Baryons At Large Momentum Transfer”**
G. P. Lepage and S. J. Brodsky
Phys. Rev. Lett. **43**, 545 (1979) [Erratum-ibid. **43**, 1625 (1979)]
400. **“Spin Effects In Large Transverse Momentum Exclusive Scattering Processes”**
S. J. Brodsky, C. E. Carlson and H. J. Lipkin
Phys. Rev. D **20**, 2278 (1979)
401. **“Quantum Chromodynamics And The Dynamics Of Hadrons”**
S. J. Brodsky
SLAC-PUB-2298(1979)
Lectures given at La Jolla Inst. Summer Workshop on QCD, La Jolla, Calif., Jul 31 - Aug 18, 1978
402. **“Exclusive Processes And The Exclusive Inclusive Connection In Quantum Chromodynamics”**
S. J. Brodsky and G. P. Lepage
SLAC-PUB-2294(1979)
Presented at Workshop on Current Topics in High Energy Physics, Cal Tech., Pasadena, Calif., Feb 13-17, 1979
403. **“Quark Structure Functions Of Mesons And The Drell-Yan Process”**
E. L. Berger and S. J. Brodsky
Phys. Rev. Lett. **42**, 940 (1979)
404. **“Two Photon Collisions And Short Distance Tests Of Quantum Chromodynamics”**
S. J. Brodsky
SLAC-PUB-2240(1978)
Presented at Joseph M. Weis Memorial Symp. on Strong Interactions, Seattle, Wash., Nov 30, 1978
405. **“Hadron And Photon Production At Large Transverse Momentum And The Dynamics Of QCD Jets”**
S. J. Brodsky
Phys. Scripta **19**, 154 (1979)
Invited talk given at Symp. on Jets in High Energy Collisions, Copenhagen, Denmark, Jul 10-14, 1978
406. **“Production Of Jets And Single Particles At Large Transverse Momentum In Photon-Photon Collisions”**
S. J. Brodsky, T. A. DeGrand, J. F. Gunion and J. H. Weis
Phys. Rev. D **19**, 1418 (1979)
407. **“The Gluon Distribution In Hadrons”**
S. J. Brodsky and J. F. Gunion
Phys. Rev. D **19**, 1005 (1979)
408. **“Are Gluon Jets Oblate?”**
S. J. Brodsky, T. A. DeGrand and R. Schwitters
Phys. Lett. B **79**, 255 (1978)

409. **“The Production Of Real Photons At Large Transverse Momentum In P P Collisions”**
R. Ruckl, S. J. Brodsky and J. F. Gunion
Phys. Rev. D **18**, 2469 (1978)
410. **“Constituent Transverse Momentum Fluctuations And The Hard Scattering Expansion”**
W. E. Caswell, R. R. Horgan and S. J. Brodsky
Phys. Rev. D **18**, 2415 (1978)
411. **“Production Of Large Transverse Momentum Jets In Photon - Photon Collisions”**
S. J. Brodsky, T. A. DeGrand, J. F. Gunion and J. H. Weis
Phys. Rev. Lett. **41**, 672 (1978)
412. **“The Magnitude Of Large Transverse Momentum Cross-Sections”**
R. Blankenbecler, S. J. Brodsky and J. F. Gunion
Phys. Rev. D **18**, 900 (1978)
413. **“The Decay Of The Upsilon Into Photons And Gluons”**
S. J. Brodsky, D. G. Coyne, T. A. DeGrand and R. R. Horgan
Phys. Lett. B **73**, 203 (1978)
414. **“Large Transverse Momentum Phenomena”**
S. J. Brodsky
SLAC-PUB-2009(1977)
Invited talk at VIII Int. Symp. on Multiparticle Dynamics, Kaysersberg, France, June 12-17, 1977
415. **“Quark Dynamics And Particle Production In High-Energy Collisions”**
S. J. Brodsky
SLAC-PUB-1982(1977)
Lecture at Int. Symposium on Hadron Structure and Multiparticle Production, Kazimierz Dolny, Poland, May 24-27, 1977
416. **“Recent Advances In Bound State Quantum Electrodynamics”**
S. J. Brodsky and G. P. Lepage
SLAC-PUB-1966(1977)
Invited talk at 4th Int. Colloq. on Adv. Computing Methods in Theoretical Phys., St. Maximin, France, Mar 21-23, 1977
417. **“Hadronic Fragmentation As A Probe Of The Underlying Dynamics Of Hadron Collisions”**
S. J. Brodsky and J. F. Gunion
Phys. Rev. D **17**, 848 (1978)
418. **“Large Transverse Momentum Processes And The Constituent Interchange Model”**
S. J. Brodsky, R. Blankenbecler and J. F. Gunion
SLAC-PUB-1938(1977)
Presented at 12th Rencontre de Moriond, Flaine, France, Mar 6-18, 1977
419. **“Jet Production And The Dynamical Role Of Color”**
S. J. Brodsky
SLAC-PUB-1937(1977)
Invited talk presented at 12th Rencontre de Moriond, Flaine, France, Mar 6-18, 1977
420. **“Quantum Electrodynamics In Strong And Supercritical Fields”**
S. J. Brodsky and P. J. Mohr
SLAC-PUB-1889(1977)
421. **“Hadron Production In Nuclear Collisions: A New Parton Model Approach”**
S. J. Brodsky, J. F. Gunion and J. H. Kuhn
Phys. Rev. Lett. **39**, 1120 (1977)
422. **“The Retention Of Quantum Numbers By Quark And Multi-Quark Jets”**
S. J. Brodsky and N. Weiss
Phys. Rev. D **16**, 2325 (1977)

423. **“Charge Asymmetry In $E^+ E^- \rightarrow$ Gamma Hadrons: New Tests Of The Quark-Parton Model And Fractional Charge”**
S. J. Brodsky, C. E. Carlson and R. Suaya
Phys. Rev. D **14**, 2264 (1976)
424. **“Radiative Processes In Electron-Proton Collisions At Pep”**
S. J. Brodsky
PEP-0015
425. **“Connections Between Lepton Induced And Hadron Induced Multiparticle Reactions”**
S. J. Brodsky and J. F. Gunion
SLAC-PUB-1820(1976)
Invited talk presented at 7th Int. Colloquium on Multiparticle Reactions, Munich, West Germany, Jun 21-25, 1976
426. **“Recent Developments In The Theory Of Large Transverse Momentum Processes”**
S. J. Brodsky and J. F. Gunion
SLAC-PUB-1806(1976)
Invited talks presented at 18th Int. Conf. on High Energy Physics, Tbilisi, USSR, Jul 15-21, 1976, and at 7th Int. Colloquium on Multiparticle Reactions, Munich, West Germany, Jun 21-25, 1976
427. **“The Asymptotic Form-Factors Of Hadrons And Nuclei And The Continuity Of Particle And Nuclear Dynamics”**
S. J. Brodsky and B. T. Chertok
Phys. Rev. D **14**, 3003 (1976)
428. **“The Deuteron Form-Factor And The Short Distance Behavior Of The Nuclear Force”**
S. J. Brodsky and B. T. Chertok
Phys. Rev. Lett. **37**, 269 (1976)
429. **“Hadron Multiplicity In Color Gauge Theory Models”**
S. J. Brodsky and J. F. Gunion
Phys. Rev. Lett. **37**, 402 (1976)
430. **“Constituent Models And Large Transverse Momentum Reactions”**
S. J. Brodsky
SLAC-PUB-1733(1976)
SLAC Summer Inst.1975:353
431. **“The Impact Of Quantum Electrodynamics”**
S. J. Brodsky
SLAC-PUB-1699(1975)
Presented at Los Alamos Meson Physics Facility User’s Group, Los Alamos, N. Mex., Nov 10-11, 1975
432. **“Large Transverse Momentum Processes”**
D. W. Sivers, S. J. Brodsky and R. Blankenbecler
Phys. Rept. **23**, 1 (1976)
433. **“Analysis Of Particle Production At Large Transverse Momentum”**
R. Blankenbecler, S. J. Brodsky and J. F. Gunion
Phys. Rev. D **12**, 3469 (1975)
434. **“Recent Progress In The Phenomenology Of Large Transverse Momentum Reactions”**
S. J. Brodsky
SLAC-PUB-1575(1975)
Proceedings of the SLAC Summer Inst., SLAC Report 179, Vol. 2, p. 259-277
435. **“Parity Violation In Atoms”**
S. J. Brodsky and G. Karl
Comments Atom. Mol. Phys. **5**, 63 (1976)

436. **“Notes From The Slac Theory Workshop On The Psi Concerning: Interference Effects, Angular Distributions, How To Extract Widths, Radiative Corrections”**
J. D. Bjorken *et al.*
SLAC-PUB-1515(1974)
437. **“Composite Models Of Hadrons And Large Transverse Processes”**
S. J. Brodsky
SLAC-PUB-1497(1974)
Invited paper to the Int. Conf. on Few Body Problems in Nuclear and Particle Physics, Quebec, Canada, Aug 27-31, 1974
438. **“Scaling Laws For Large Momentum Transfer Processes”**
S. J. Brodsky and G. R. Farrar
Phys. Rev. D **11**, 1309 (1975)
439. **“Unified Description Of Inclusive And Exclusive Reactions At All Momentum Transfers”**
R. Blankenbecler and S. J. Brodsky
Phys. Rev. D **10**, 2973 (1974)
440. **“Physical Effects Of Hadronic Bremsstrahlung. Reactions At Large And Small Momentum Transfers”**
R. Blankenbecler, S. J. Brodsky, J. F. Gunion and R. Savit
Phys. Rev. D **10**, 2153 (1974)
441. **“Quantum Electrodynamics And Exotic Atomic Phenomena Of High Z Elements”**
S. J. Brodsky
Comments Atom. Mol. Phys. **4**, 93 (1973)
442. **“Hadronic And Electromagnetic Interactions At Large Transverse Momentum”**
S. J. Brodsky
SLAC-PUB-1329(1973)
Invited talk presented at 5th Int. Conf. on High Energy Collisions, Stony Brook, N.Y., Aug 23-24, 1973
443. **“Application Of The Infinite Momentum Method To Quantum Electrodynamics And Bound State Problems”**
S. J. Brodsky
SLAC-PUB-1328(1973)
Invited talk presented to 3rd Colloquium on Advanced Computing Methods in Theoretical Physics, Marseille, France, Jun 25-29, 1973
444. **“The Hadronic Physics Of Photon - Photon Collisions”**
S. J. Brodsky
J. Phys. (France) **35**, 69 (1973)
Invited talk presented at Int. Colloquium on Photon-Photon Collisions in Electron-Positron Storage Rings, College de France, Paris, Sep 3-4, 1973
445. **“The Connection Between Regge Behavior And Fixed Angle Scattering”**
R. Blankenbecler, S. J. Brodsky, J. F. Gunion and R. Savit
Phys. Rev. D **8**, 4117 (1973)
446. **“Scaling Laws At Large Transverse Momentum”**
S. J. Brodsky and G. R. Farrar
Phys. Rev. Lett. **31**, 1153 (1973)
Submitted to Int. Symposium on Electron and Photon Interactions at High Energies, Bonn, West Germany, Aug 27-31, 1973
447. **“Quantum Electrodynamics And Renormalization Theory In The Infinite Momentum Frame”**
S. J. Brodsky, R. Roskies and R. Suaya
Phys. Rev. D **8**, 4574 (1973)

448. **“A Gauge - Invariant Scaling Model Of Current Interactions With Regge Behavior And Finite Fixed Pole Sum Rules”**
S. J. Brodsky, F. E. Close and J. F. Gunion
Phys. Rev. D **8**, 3678 (1973)
449. **“Large Angle Scattering And The Interchange Force”**
J. F. Gunion, S. J. Brodsky and R. Blankenbecler
Phys. Rev. D **8**, 287 (1973)
450. **“Hadron Production In E+ E- Collisions - One And Two Photon Processes”**
S. J. Brodsky
SLAC-PUB-1162(1972)
Presented at 16th Int. Conf. on High Energy Physics, Batavia, Ill., Sep 6-13, 1972
451. **“Quantum Electrodynamics: Theory”**
S. D. Drell and S. J. Brodsky
SLAC-PUB-0454(1968)
Invited talk at Int. Conf. on Atomic Physics, N.Y.U., Jun 1968
452. **“Inclusive Processes At High Transverse Momentum”**
R. Blankenbecler, S. J. Brodsky and J. F. Gunion
Phys. Lett. B **42**, 461 (1972)
453. **“Atomic Physics And Quantum Electrodynamics In The Infinite Momentum Frame”**
S. J. Brodsky
SLAC-PUB-1118(1972)
Presented at 3rd Int. Conf. on Atomic Physics, Boulder, Colo., Aug 7-11, 1972
454. **“Quantum Electrodynamics And Renormalization Theory In The Infinite Momentum Frame”**
S. J. Brodsky and R. Roskies
Phys. Lett. B **41**, 517 (1972)
Submitted to XVI Int. Conf. on High Energy Physics, Sep 6-13, Batavia, Ill.
455. **“Algebraic Computation Techniques In Quantum Electrodynamics”**
S. J. Brodsky
SLAC-PUB-1061(1972)
Proc. of the 2nd Colloquium on Advanced Computing Methods in Theoretical Physics, Marseille, France, Jun 1971, Vol. 2, P. IV-1 - IV- 27.
456. **“A Test For Fractionally Charged Partons From Deep Inelastic Bremsstrahlung In The Scaling Region”**
S. J. Brodsky, J. F. Gunion and R. L. Jaffe
Phys. Rev. D **6**, 2487 (1972)
457. **“The Present Status Of Quantum Electrodynamics”**
S. J. Brodsky and S. D. Drell
Ann. Rev. Nucl. Part. Sci. **20**, 147 (1970)
458. **“Phenomenology Of Photon Processes, Vector Dominance And Crucial Tests For Parton Models”**
S. J. Brodsky, F. E. Close and J. F. Gunion
Phys. Rev. D **6**, 177 (1972)
459. **“Two Photon Mechanism Of Particle Production By High-Energy Colliding Beams”**
S. J. Brodsky, T. Kinoshita and H. Terazawa
Phys. Rev. D **4**, 1532 (1971)
460. **“Quantum Electrodynamical Theory: Its Relation To Precision Low-Energy Experiments”**
S. J. Brodsky
SLAC-PUB-0795(1970)
Portions of this paper were also presented at the 2nd Int. Conf. on Atomic Physics, Oxford, 1970

461. **“Composite Theory Of Inclusive Scattering At Large Transverse Momenta”**
J. F. Gunion, S. J. Brodsky and R. Blankenbecler
Phys. Rev. D **6**, 2652 (1972)
462. **“Interchange Description Of High Transverse Momentum Processes At N.A.L. Energies”**
J. F. Gunion, S. J. Brodsky and R. Blankenbecler
PITT-124(1974)
463. **“Radiative Problems And Quantum Electrodynamics”**
S. J. Brodsky
SLAC-PUB-0989(1971)
Presented at Int. Symposium on Electron and Photon Interactions at High Energies, Cornell Univ., Ithaca, N.Y., Aug 23-27, 1971.
464. **“Compton Scattering And Fixed Poles In Parton Field Theoretic Models”**
S. J. Brodsky, F. E. Close and J. F. Gunion
Phys. Rev. D **5**, 1384 (1972)
465. **“Suggested Boson - Lepton Pair Couplings And The Anomalous Magnetic Moment Of The Muon”**
S. J. Brodsky and E. De Rafael
Phys. Rev. **168**, 1620 (1968)
466. **“Fourth Order Electrodynamic Corrections To The Lamb Shift”**
T. Appelquist and S. J. Brodsky
Phys. Rev. A **2**, 2293 (1970)
467. **“Photon - Photon Scattering Contribution To The Sixth Order Magnetic Moment Of The Muon”**
J. Aldins, T. Kinoshita, S. J. Brodsky and A. J. Dufner
Phys. Rev. Lett. **23**, 441 (1969)
468. **“Determination Of The Real Part Of The Compton Amplitude At A Nucleon Resonance”**
S. J. Brodsky, A. C. Hearn and R. G. Parsons
Phys. Rev. **187**, 1899 (1969)
469. **“Photon-Nucleus Total Cross-Sections”**
S. J. Brodsky and J. Pumplin
Phys. Rev. **182**, 1794 (1969)
470. **“Photon - Photon Scattering Contribution To The Sixth Order Magnetic Moments Of The Muon And Electron”**
J. Aldins, T. Kinoshita, S. J. Brodsky and A. J. Dufner
Phys. Rev. D **1**, 2378 (1970)
471. **“The Order Alpha**2 Electrodynamic Corrections To The Lamb Shift”**
T. Appelquist and S. J. Brodsky
Phys. Rev. Lett. **24**, 562 (1970)
472. **“Composite Theory Of Large Angle Scattering And New Tests Of Parton Concepts”**
J. F. Gunion, S. J. Brodsky and R. Blankenbecler
Phys. Lett. B **39**, 649 (1972)
473. **“The Electromagnetic Interactions Of Composite Systems”**
S. J. Brodsky and J. R. Primack
Annals Phys. **52**, 315 (1969)
474. **“Status Of Quantum Electrodynamics”**
S. J. Brodsky
In the Proceedings of 4th Int. Symposium on Electron and Photon Interactions at High Energies, Liverpool, England, Sep 14-20, 1969, pp 3-20
SLAC-PUB-0676(1969)

Invited talk presented at Int. Symposium on Electron and Photon Interactions at High Energies, Liverpool, England, Sep 14-20, 1969

475. **“The Electromagnetic Interactions Of Loosely Bound Composite Systems”**
S. J. Brodsky and J. R. Primack
Phys. Rev. **174**, 2071 (1968)
476. **“Statistical Model For Electron-Positron Annihilation Into Hadrons”**
J. D. Bjorken and S. J. Brodsky
Phys. Rev. D **1**, 1416 (1970)
477. **“Second Born Corrections To Wide Angle Electron Pair Production And Bremsstrahlung”**
S. J. Brodsky and J. Gillespie
Phys. Rev. **173**, 1011 (1968)
478. **“Corrections To Muonic X-Rays And A Possible Proton Halo”**
R. C. Barrett, S. J. Brodsky, M. H. Goldhaber and G. W. Erickson
Phys. Rev. **166**, 1589 (1968)
479. **“Precise Theory Of The Zeeman Spectrum For Atomic Hydrogen And Deuterium And The Lamb Shift”**
S. J. Brodsky and R. G. Parsons
Phys. Rev. **163**, 134 (1967)
480. **“W Boson Contribution To The Anomalous Magnetic Moment Of The Muon”**
S. J. Brodsky and J. D. Sullivan
Phys. Rev. **156**, 1644 (1967)
481. **“Electrodynamics At Very Low And Very High-Energies”**
S. J. Brodsky
SLAC-PUB-1010 Invited Lectures, University of Sussex. 1972
482. **The Radiative Corrections to the Hyperfine Structure in Hydrogen”**
Brodsky, Stanley J.
Thesis (PH.D.)—UNIVERSITY OF MINNESOTA, 1964.
Source: Dissertation Abstracts International, Volume: 26-02, page: 1094.

7 Partial List of Invited Talks and Lectures

1. 4th International Workshop On High-PT Physics At LHC 09. Prague, Czech Republic. “Novel High Transverse Momentum Phenomena at the LHC”, Feb 4-7, 2009
2. UC Davis, Particle Physics Seminar. “Novel Effects in QCD and Hadronization at the Amplitude Level” . January 14, 2009
3. SLAC, Exascale Workshop. “Exascale Computing and Light Front QCD” . December 9, 2008
4. Weizmann Institute, Israel. “AdS/QCD and Novel Heavy-Ion Phenomena” . November 17, 2008
5. PANIC 08, Eliat, Israel. “QCD and the Nucleon” . November 13, 2008
6. PANIC 08, Eliat, Israel. “Hadronic Light-Front Wavefunctions from AdS/QCD” . November 10, 2008
7. XIII Mexican School of Particles and Fields. San Carlos, Sonora, Mexico. “Light-Front Holography and Novel Effects in QCD” 2-11 October, 2008
8. Imperial College. London. “Novel QCD Phenomenology” . . September 16, 2008
9. Diffraction 2008: International Workshop On Diffraction In High Energy Physics. La Londe-les-Maures, France. “Novel Aspects of QCD in Diffractive Physics” . September 9-14, 2008
10. ECFA-CERN LHeC Workshop. Divonne. “LHeC Physics Overview”, . September 1, 2008

11. Edinburgh University. Edinburgh, UK. "AdS/QCD and Novel Effects in QCD". August 16, 2008
12. Manchester University. Manchester, UK. "Light-Front Holography: AdS/QCD and Novel Effects in QCD" August 5, 2008
13. LIGHT CONE 2008. Mulhouse, France. "Light-Front Holography: The AdS/CFT Correspondence and Light-Front QCD", July 8, 2008
14. PKU-RBRC Workshop on Transverse Spin Physics. CHEP, Peking University. "Light-Front Holography and Novel QCD Phenomena" July 3, 2008
15. Landau Memorial Meeting, Moscow. "AdS/CFT and Hadronic Physics on the Light Front." June 20, 2008
16. Fritzsche Symposium, Ludwig-Maximilians-Universitt Mnchen. "AdS/CFT and QCD" . June 6, 2008
17. Rutherford Appleton Laboratory, UK. Rutherford Workshop: New Ideas on Hadronization. "Light-Front Holography::Hadronic Wavefunctions from AdS/QCD" May 20, 2008
18. Rutherford Appleton Laboratory, UK. Rutherford Workshop: New Ideas on Hadronization. "Light-Front Holography and Hadronization at the Amplitude Level." May 30, 2008
19. The Abdus Salam International Center for Theoretical Physics. Trieste, Italy. "Light-Front Holography: Hadronic Wavefunctions from AdS/QCD" May 12, 2008
20. University of Southern Denmark, Odense. "Can Extra Dimensions Be Used to Explain the Physical World ?" May 5, 2008
21. University of Helsinki, Finland. "Light Front Holography and AdS/QCD". April 29, 2008
22. DIS2008, London. "Wish List for HERA". April 2008
23. DIS2008, London. "Novel QCD Phenomena at Electron-Proton Colliders". April 9, 2008
24. Institute for Nuclear Theory, University of Washington. "AdS/QCD and Hadronic Phenomena" March 28, 2008
25. Brookhaven National Lab, Physics Seminar. "Hadronic Phenomenology from AdS/CFT for Experimentalists" March 7, 2008
26. Columbia University . " The AdS/CFT Correspondence and Light-Front QCD". February 18, 2008.
27. SUNY-Stony Brook-Brookhaven National Lab, Joint HET/RIKEN/YITP Seminar- "QCD on the Light-Front". February 6, 2008
28. SUNY-Stony Brook Colloquium. "The AdS/CFT Correspondence and Novel Effects in Quantum Chromodynamics" February 5, 2008
29. Brookhaven National Lab, Nuclear Physics Seminar- "New Perspectives on RHIC Physics" . January 29, 2008
30. Massey University Auckland, New Zealand. QCD Down Under II. "New Perspectives for QCD from AdS/CFT, " January 17-19, 2008
31. "Novel QCD Phenomena" Brookhaven National Lab. January 8, 2008 PHENIX Collaboration Meeting. "Novel QCD Opportunities at RHIC". Brookhaven National Lab. December 14, 2007
32. New physics with EIC - Electron Ion Collider Meeting at Stony Brook. "Novel QCD Phenomena at an Electron-Ion Collider". December 8, 2007
33. Low x Physics and Spin - Electron Ion Collider Meeting at Stony Brook. "Connections Between Low x Physics and Single Spin Asymmetries". December 7, 2007
34. BNL-EIC. "Novel QCD Phenomena at an Electron-Ion Collider" November 27, 2007

35. Brookhaven National Lab, Nuclear Physics Seminar. "New Perspectives on QCD from AdS/CFT" November 20, 2007
36. Columbia University, New York. "AdS/QCD and Hadronic Phenomena" November 16, 2007
37. Second Workshop on Flavor Dynamics. Albufeira, Portugal. "AdS/QCD, Light-Front Wavefunctions, and Novel Heavy Quark Phenomena" November 3-11, 2007
38. C.N. Yang Institute Seminar. SUNY Stony Brook. "AdS/QCD and Hadronic Phenomena" October 25, 2007
39. Helmholtz Institut: Introduction to AdS/CFT in QCD. "Introduction to AdS/QCD and Light-Front Hadron Dynamics" . Guy F. de Tramond, Ecole Polytechnique, (in collaboration with Stan Brodsky). Bonn, Germany. October 15, 2007
40. Ferrara Workshop on Electromagnetic Interactions at FAIR. Novel Anti-proton QCD Physics. "Novel Electromagnetic and QCD Physics at FAIR and New Insights from AdS/QCD" Ferrara, Italy. October 15-16, 2007
41. University of Illinois Colloquium. "The AdS/CFT Correspondence and Quantum Chromodynamics" Urbana, Illinois. October 4, 2007
42. International School of Subnuclear Physics. 45th Course: Search for the "Totally Unexpected" in the LHC Era. "AdS/QFT and QCD" Erice-Sicily, Italy. August 29 -September 7, 2007
43. The 6th Circum-Pan-Pacific Symposium on High Energy Spin Physics. University of British Columbia. Vancouver BC, Canada. "Hadronic Spin Physics, New Insights from AdS/CFT" . July 30 - August 2, 2007
44. TRIUMF Seminar. Vancouver BC, Canada. "New Developments on QCD. ". July 27, 2007
45. SLAC Theoretical Physics Seminars. "The Renormalization Scale Problem". June 29, 2007
46. 2007 JLab Users Group Meeting. Jefferson National Lab, Newport News, VA. "New Insights from AdS/CFT and JLab Tests of QCD" ". June 18-20, 2007
47. 11th International Conference, Baryons'07. Seoul National University, Seoul, Korea. "Baryons and AdS/CFT. " June 15, 2007
48. Istituto Nazionale di Fisica Nucleare (INFN). Frascati, Italy. "Hidden Color and Other Novel Effects in QCD" June 1, 2007
49. Jefferson National Laboratory, Exclusive Reactions at High Momentum Transfer. Newport News, VA USA. "Novel Initial-State and Final-State Interactions in QCD". May 24, 2007
50. Jefferson National Laboratory. Newport News, VA. "Exclusive Processes and AdS/QCD" May 22, 2007
51. Light Cone 2007: Relativistic Hadronic and Nuclear Physics. Ohio Center for Technology and Science, Ohio State University. Columbus, Ohio. USA. "Light Front QCD and AdS/CFT". May 14, 2007
52. University of Kentucky Lexington, Kentucky. K.F. Liu Colloquium. "AdS/CFT and Novel Effects in QCD" April 19, 2007
53. APS Jacksonville, Florida. J.J. Sakurai Prize for Theoretical Particle Physics. "Applications of AdS/CFT to QCD" . April 16, 2007
54. Institute for Nuclear Theory. Neutron Program AdS/QCD. University of Washington, Seattle. "The Conformal Template, AdS/CFT, and QCD Phenomenology - ". April 11, 2007
55. Small-x Diffraction Workshop - Fermilab. "AdS/CFT and QCD Phenomena ". March 28 - 30, 2007
56. High-pT Physics at the LHC. Physics Department, University of Jyväskylä, Finland. "Novel QCD Phenomena ". March 23 - 27, 2007

57. University of Helsinki. Helsinki, Finland. "The Conformal Template, AdS/CFT and the QCD Phenomena - " March 22, 2007
58. Particle Physics Seminars - University of California, Davis. "The Impact of AdS/CFT on QCD Phenomenology - March 13, 2007
59. SLAC Experimental Seminars. "Novel Tests of QCD at BaBar." SLAC, March 6, 2007
60. TEP Seminar, UCLA. "Optimal Renormalization Scales and Schemes", February 13, 2007
61. Institute of Theoretical and Experimental Physics. "The Impact of AdS/CFT on QCD Phenomenology" - Moscow, Russia. January 10-17, 2007
62. Workshop on Photoproduction at collider energies: from RHIC and HERA to LHC. "Photonic and Diffractive Phenomena in QCD - Summary". European Centre for Theoretical Studies in Nuclear Physics and Related Areas - Trento, Italy. January 15-19, 2007
63. Ringberg Workshop On Non-Perturbative QCD of Jets. Schloss Ringberg - Munich, Germany. "The Application of AdS/QCD to Hadronic Amplitudes and Jet Hadronization". 8-10 January, 2007
64. International Workshop On High Energy Physics In The LHC Era. Summary Talk. Valparaiso, Chile. "QCD in the LHC Era" - Part 1a, Part 1b, Part 1c, . December 11-15, 2006
65. International Workshop On High Energy Physics In The LHC Era. Valparaiso, Chile. "Diffractive, High-XF Phenomena and the Novel Effects of Initial - and Final - State of Interactions" December 11-15, 2006
66. International Symposium pn?50. Sakata Model 50th Anniversary. "Novel Aspects of Quantum Chromodynamics". Nagoya, Japan. 25-26 November, 2006
67. 2006 International Workshop SCGT 06. "AdS/CFT and QCD Phenomena". Nagoya, Japan. 21-24 November, 2006
68. "Nuclear Chromodynamics: The Application of QCD to Hadrons and Nuclear Physics," Lectures given at the European Graduate School, Complex Systems of Hadrons and Nuclei, at Hyytil, Finland, 25-30 September, 2006
69. "Impact of AdS/CFT on QCD". QCD: Facts and Prospects, Oberwllz Symposium 2006. Oberwllz, Austria. 10-16 September, 2006.
70. "Applications of AdS/CFT to QCD Phenomenology," Gordon Research Conference on Photonuclear Reactions, Tilton School, Tilton, NH, July 30 - August 4, 2006
71. "QCD Phenomenology and Nucleon Structure" , 18th National Nuclear Physics Summer School. Indiana University, Bloomington, IN. July 23 - August 5, 2006
72. "The Impact of AdS/CFT on QCD, presented at the meeting: QCD and String Theory at the Benasque Center for Science 2006. Benasque, Spain. July 2-July 14, 2006
73. Testing Novel Phenomena in QCD and AdS/CFT using Antiprotons", Presented at the ECT* Workshop: Observables in Antiproton-Proton Interactions and their Relevance to QCD, Trento, Italy. 3-8 July 2006
74. "The Renormalization Scale Problem," LoopFest V, SLAC, June 21, 2006
75. "Novel Tests of QCD at Super B", Super B III SLAC, June 15, 2006
76. "Hadron Spectroscopy and Structure from AdS/CFT", QNP06. Madrid, Spain. June 8, 2006
77. "Insights from AdS/CFT for Light-Front Wavefunctions and QCD Phenomena at the Amplitude Level," LC2006, May 15, 2006
78. "Light-Front Wavefunctions, QCD Phenomena at the Amplitude Level, and Insights for QCD from AdS/CFT", CAQCD, May 12, 2006

79. "Insights for QCD from AdS/CFT" , Newe Shalom Joint Seminar, May 9, 2006
80. "Novel Diffractive Phenomena and New Insights into QCD Wavefunctions" , Ashery Colloquium, Tel Aviv, May 8, 2006
81. "Nuclear Chromodynamics and Hadron Dynamics at the Amplitude Level", Eisenberg Colloquium, Tel Aviv, May 7, 2006
82. "Insights for QCD from AdS/CFT", Technion, Israel, May 1, 2006
83. "The World of Quarks and Gluons: A Contemporary View of the Structure of Matter, Universidad de Costa Rica", April 6, 2006
84. "Novel Diffractive Phenomena and New Insights Into QCD from AdS/CFT", University of Connecticut, March 27, 2006
85. "Orbital Angular Momentum in QCD", presented at the Joint UNM/RBRC Workshop on Parton Orbital Angular Momentum, Albuquerque, New Mexico, February 24, 2006
86. "Intrinsic Heavy Quarks and other Novel QCD Phenomena at the LHC", presented at the West Coast LHC Theory Network, LBNL, February 3, 2006
87. "Insights for QCD from AdS/CFT," LBL-UCB Seminar, January 2006
88. "Anti-Shadowing and Other Novel Effects in QCD", Los Alamos National Laboratory, January 2006
89. "New Insights for QCD from AdS/CFT and Novel Tests of QCD at J-PARC", Kyoto Seminar, December 2005
90. "Novel Tests of QCD at J-PARC", Workshop on Hadron Structure at J-PARC, Tsukuba, Japan, December 2005
91. "Insights for QCD from AdS/CFT", Rome Colloquium, October 2005
92. "New perspectives on the structure and interactions of the nucleon in QCD," Workshop On Nucleon Form Factors (N05), Frascati, Italy, October 2005
93. "Novel Phenomena in QCD", DESY, September 2005
94. "The Renormalization Scale Problem", DESY, September 2005
95. "Hadron Dynamics at the Amplitude Level," International Workshop on Transverse Polarisation
96. "Phenomena of Hard Processes" (Transversity 2005), Como, Italy, September 2005
97. "Photon-Photon Physics," PHOTON 2005, Warsaw, Poland, August 2005
98. "The Renormalization Scale Problem," PHOTON2005, Warsaw, Poland, August 2005
99. "Exclusive Photon-Induced Processes in QCD" PHOTON2005, Warsaw, Poland, August 2005
100. "QCD Phenomena at the Amplitude Level and the AdS/CFT Correspondence", XI International Conference on Hadron Spectroscopy, Rio de Janeiro, Brazil, August 2005
101. "Advances in LF-QCD and New Perspectives on QCD from AdS/CFT," Workshop on Light-Cone QCD and Nonperturbative Hadron Physics 2005, Cairns, Australia, July 2005
102. "Hard Exclusive Processes and AdS/CFT", International Conference on QCD and Hadronic Physics, Beijing, China, June 2005
103. "Novel Aspects of Hard Diffraction", XIth International Conference on Elastic and Diffractive Scattering, May 2005
104. Summary Talk - Theory, XIth International Conference on Elastic and Diffractive Scattering, May 2005

105. "Quantum Chromodynamics: A scientific revolution for hadron and nuclear physics", CarlFest, May 7, 2005
106. "New Perspectives on Hadron Dynamics using the AdS/CFT Correspondence", ECT* Trento, May 2005
107. "New Perspectives for Deep Inelastic Scattering and QCD", DIS2005, Madison, April 30, 2005
108. "Novel Aspects of High-x Phenomena in QCD", DIS2005, Madison, April 29, 2005
109. "Hard diffraction from parton rescattering in QCD", DIS2005, Madison, April 29, 2005
110. "Shadowing and antishadowing in neutrino-nucleus DIS", DIS2005, Madison, April 28, 2005
111. "Novel Aspects of QCD in Hard Diffraction", Heidelberg, March 11, 2005
112. "Conformal Aspects of QCD," presented at KITP Conference: QCD and String Theory, November 15-19, 2004
113. "Nuclear Chromodynamics: Signals of QCD in Nuclear Processes", Convener's summary, presented at the workshop on the "The Physics of Nuclei with 12 GeV Electrons" . Jefferson Laboratory November 1-5, 2004
114. "New Perspectives in QCD," I3HP Topical Workshop "Hadron Physics", St. Andrews University, Scotland, 29 August- 2 September 2004
115. "Novel QCD Aspects of Single-Spin Asymmetries and Hard Diffraction", International Symposium on Multiparticle Dynamics, Sonoma, 7/2004
116. "Novel QCD Phenomenology." International School of Physics Enrico Fermi, Varenna, Italy, 6/2004
117. "Light-Front Wave Functions in QCD and AdS/CFT Correspondence", W. I. Fine Theoretical Physics Institute, University of Minnesota, 5/2004
118. "Light-Front Quantization and Applications to QCD", QCD Down Under, CSSM, Australia, 3/2004
119. "Near-Conformal Aspects of QCD," Weizmann Institute, 2/2004
120. "High Energy Physics at a Photon Collider," Fifth International Workshop on Electron-Electron Interactions at TeV Energies, UC, Santa Cruz, 12/2003
121. Presentation, George Washington University Retreat at Gettysburg, 12/2003
122. "Novel Spin Effects in QCD", RIKEN BNL Research Center Workshop, 12/2003
123. "Outlook, High pT Physics at RHIC", RIKEN BNL Research Center Workshop, 12/2003
124. "QCD Studies in Low Energy e^+e^- Annihilation", Workshop on e^+e^- in the 1-2 GeV Range, Physics and Accelerator Issues, Alghero, Sardinia, Italy, September 2003
125. "Light-Front Quantization and Novel Aspects of QCD," Invited talk presented at International Conference on Color Confinement and Hadrons in Quantum Chromodynamics (Confinement 2003), RIKEN, Japan, July 2003
126. "Light-Front Wavefunctions and QCD" given at the program "Generalized Parton Distributions and Exclusive Processes", at the Institute for Nuclear Theory, Seattle, July 30, 2003
127. "Novel Diffractive and Spin Effects of Final-State Interactions," 10th Blois Workshop On Elastic And Diffractive Scattering. Hanasaari, Helsinki, Finland. 23-28 June, 2003
128. "Unexpected Effects of Final-State Interactions in QCD," 1st Urbana Study Group, Mini-Workshop on Single Spin Asymmetries, UIUC, 27/28 March 2003
129. "QCD and String Theory", INT Workshop, University of Washington, 2/2003
130. "Hunting for Gluonia in e^+e^- Annihilation", Cornell, 1/31/03

131. 2002 International Workshop SCGT 02 “Strong Coupling Gauge Theories and Effective Field Theories”, Nagoya, Japan. “Light-Front Quantization and QCD”, December 10-13, 2002
132. “Gauge Theories on the Light-Front,” XXIII Encontro Nacional de Fisica de Particulas e Campos, Brazil, October 18, 2002
133. “New QCD Phenomena and QCD Light-Front Wavefunctions,” Light-Cone 2002, LANL, 8/2002
134. “Exclusive Processes in QCD and Light-Front Wavefunctions,” International Workshop on Spontaneously Broken Chiral Symmetry and Hard QCD Phenomena, Bad Honnef, Germany, July 15-19, 2002
135. “Novel QCD Phenomena in Anti-Proton Collisions,” International Workshop on Physics with Antiprotons at GSI, 6/2002
136. “New Directions in QCD and the Electron-Ion Collider,” BNL-EIC Meeting, 3/2002
137. “Ultra-Peripheral Collisions: A New Laboratory for High Energy Physics,” presented at Workshop at CERN, 3/2002
138. “Overview of gamma gamma Physics at a Linear Collider” presented at the 4th International Workshop Electron-Electron Interactions at TEV Energies, University of California, Santa Cruz, 12/2001
139. “QCD on the Light-Cone,” presented at the International Light-Cone Workshop, Trento 2001, 9/2001
140. “Exotic Effects in QCD, and Structure Functions are Not Parton Probabilities”, Lectures presented at Snowmass 2001, 7/2001
141. “Perturbative QCD, Light Cone Wavefunctions and Exclusive B Decays,” Lectures presented at Institute for Nuclear Theory, University of Washington, 4/2001
142. Lectures presented at the Fifth International Workshop on Particle Physics Phenomenology, Taitung, Taiwan, 11/2000.
143. “Novel QCD Features of Charm Production at Threshold”, JLab Workshop on Physics Opportunities with 12-GeV Electrons, Jefferson Laboratory, 1/2000
144. eRHIC Workshop, “Parton Propagation in Dense Matter”, Rappateur Talk, BNL, 12/1999
145. eRHIC Workshop, “Self-Resolving Jet Reactions”, BNL, 12/1999
146. Jefferson Laboratory Workshop on Exclusive Processes from Low to High Q^2 , University of Georgia, Athens, 9/1999
147. “Theoretical Status of Light-Cone Wavefunctions of Hadrons”, International Workshop Challenges in QCD, Kfar Giladi, Israel, 6/1999
148. “Perspectives on EPIC Physics”, Indiana University, 4/1999
149. “Commensurate Scale Relations and Optimal Renormalization”, La Thuile, Italy, 1999
150. “Novel Peripheral Processes at RHIC, RHIC Winter Meeting”, LBL, 1/1999
151. “Exclusive Processes – Fundamental Tests of Quantum Chromodynamics”, Quantum Field Theory at Work Symposium, Weizmann Institute, Israel, 12/1998
152. “ $\gamma^*\gamma^*$ Collisions”, Linear Collider Workshop, Keystone, CO, 9/1998