Theory References

References

[1] J.D. Bjorken, Phys. Rev. **148** 1467 (1966), Phys. Rev. D **1** 1376 (1970).

[2] D.J.Gross and C.H. Llewellyn Smith, Nucl. Phys. **B14** 337 (1969).

[3] S. Adler and W. Bardeen, Phys. Rev. 182, 1517, 1969.

[4] J. Ellis and R. Jaffe, Phys. Rev. D **9**, 1444 (1974).
Sum rule for deep-inelastic electroproduction from polarized protons.

[5] J. Ellis and R. Jaffe, Phys. Rev. **D10** 1669 (1974).

[6] D.J.E. Callaway and S.D. Ellis, Phys. Rev. D **29** 567 (1984).
Spin structure of the nucleon.

[7] R.L. Jaffe, Phys. Lett. **B193** 101 (1987).

[8] J. Ellis and M. Karliner, Phys. Lett. **B213** 73 (1988).
An analysis of the angular momentum of the proton.

[9] A. Schafer, Phys. Lett. **B208** 249 (1988).
Spin-dependent structure functions for the proton and the neutron.

[10] G. Altarelli and G.G. Ross, Phys. Lett. **B212** 391 (1988).
The anomalous gluon contribution to polarized leptonproduction.

[11] M. Anselmino, B.L. Ioffe and E. Leader, NSF-ITP-88-94.
On possible resolution of the spin crisis in the parton model.

[12] A.V. Efremov and O.V. Teryaev, JINR E2-88-287.
Spin structure of the nucleon and triangle anomaly.

[13] R.D. Carlitz, J.C. Collins, and A.H. Mueller, Phys. Lett. **B214** 229 (1988).

[14] M. Gluck and E. Reya, DO-TH-88/22.
Polarized Leptoproduction and Dynamically Generated Spin Dependent Parton Distributions.

[15] J. Clement and J. Stern, Preprint CERN-TH-5216, 1988.

[16] F. Myhrer and A.W. Thomas, Phys. Rev. D **38** 1633 (1988).

[17] H.J. Lipkin, Phys. Lett. **B214** 429 (1988).

[18] S.B. Brodsky, J. Ellis, and M. Karliner, Phys. Lett. **B206** 309 (1988).
Chiral symmetry and the spin of the proton.

[19] H. Hogaasen and F. Myhrer, Z. Phys. Part. and Fields 48, 295, 1990.
The second EMC effect, semileptonic decays and the chiral bag.

[20] R.L. Jaffe and A. Manohar, Nucl. Phys. **B337** 509 (1990).
The g_1 problem: deep inelastic electron scattering and the spin of the proton.

[21] A.V. Manohar, Phys. Rev. Lett. **66**, 289 (1991).
Polarized Parton Distributions functions.

[22] J. Ellis and M. Karliner, Phys. Lett. **B313** 131 (1993).
Analysis of Data on Polarized Lepton-Nucleon Scattering.

[23] F.E. Close, Phys. Lett. **43B** 422 (1973). R. Carlitz, Phys. Lett. **58B** 345 (1975), F.E. Close, An introduction to Quarks and Partons, p302, Academic Press, 1979.

[24] F.E. Close, Nucl. Phys. **B80** 269 (1974).

[25] J.Kaur, Nucl. Phys. **B128** 219 (1977).

[26] F.E. Close, F.J. Gilman and M. Karliner, Phys. Rev. D **6** 2533 (1972).

[27] F.E. Close and R.G. Roberts, Phys. Rev. Lett. **60** 1471 (1988).
Spin content of the proton.

[28] A.E. Dorokhov *et al.,* Sov. J. Nucl. 50, 494, 1989. JINR-P2-88-888.
Spin dependent structure functions of nucleon in the chiral bag model.

[29] A.D. Martin, W.J. Stirling, and R.J. Roberts, Phys. Lett. **B306** 145 (1993).
Parton distribution updated.

[30] F.E. Close, J.Qiu and R.G. Roberts, Phys. Rev. D **40** 2820 (1989).
QCD Parton recombination and applications to nuclear structure functions.

[31] F.E. Close, Phys. Rev. Lett. **64** 361 (1990).
Polarized Strange Quarks in the Proton and the Validity of Quantum Chromodynamics.

[32] F.E. Close, Preprint RAL-93-034, june 1993. Workshop on qualitative aspects and applications of nonlinear evolution equations, Trieste, Italy, may 1993.
The Nucleon Spin Crisis Bible.

[33] F.E. Close and R.G. Roberts, Preprint RAL-93-040 june 1993, Phys. Lett. **B316** 165 1993.
Consistent Analysis of the Spin Content of the Nucleon.

[34] G.G. Ross and R.G. Roberts, Preprint RAL-93-092, nov. (1993).
Improved QCD sum rule estimate of the higher twist contributions to polarized and unpolarized nucleon structure functions.

[35] G. Preparata, Lausanne Conf. on Polarisation, 1981.
Spin and Flavour at short distances.

[36] A. Gianelli, L. Nitti, G. Preparata and P. Sforza, Phys. Lett. **150B** 214 (1985).
A calculation of nucleon structure functions.

[37] G. Preparata and J. Soffer, Phys. Rev. Lett. **61** 1167 (1988).
Evidence against Pertubative QCD from Polarized Deep-Inelastic Scattering.

[38] G. Preparata, P. Ratcliffe and J.Soffer, Phys. Lett. **231** 483 (1989).
Can the Bjorken sum rule outlive that of Ellis and Jaffe?

[39] G. Preparata, P. G. Ratcliffe and J. Soffer, Phys. Rev. D **42** 930 (1990).
Where is the anomaly of polarized deep-inelastic scattering?

[40] G. Preparata and P.G. Soffer, Phys. Lett. **B273** 306 (1991).
The strangeness content of the proton can only be small.

[41] G. Preparata, P.G. Ratcliffe and J. Soffer, Phys. Rev. Lett. **66** 687 (1991).
Isospin Violation in Quarks-Parton Distributions.

[42] P.G. Ratcliffe, Report MITH-92-8, april 1992.
Transverse spin effects.

[43] G. Preparata and P.G. Ratcliffe, submitted to Phys. Rev. Lett., Report MITH-93-9.
EMC, E142, SMC, Bjorken, Ellis-Jaffe... and All That.

[44] G. Preparata and P.G. Ratcliffe, submitted to Phys. Rev. Lett., Report MITH-93-12, may 1993.
Are E142 and SMC telling a different story?

[45] G.Preparata and P.G. Ratcliffe, submitted to Phys. Lett., Report MITH-93-15.
Comment on "Analysis of Data on Polarized Lepton-Nucleon Scattering"

[46] F. Bucella and J.Soffer, Modern Phys. Lett A **8** No. 3 (1993).
Parton Distribution in the Nucleon and the Pauli principle.

[47] V.D. Buckert and B.L. Ioffe
Polarized Structure Functions of Proton and Neutron and the Gerasimov- Drell-Hearn and Bjorken Sum rules

[48] Z. Dziembowski, J.C. Martoff and P. Zyla, Report TEMPLE PR-94-0047.
Deep-inelastic Spin and Flavor Asymmetry of the Nucleon from a QCD- inspired Quark Model.

[49] K.F. Liu *et al.*,, Kentucky Preprint U.K. 91-01 (1991); in Proc. Latt. 90, U.M. Heller, A.D. Kennedy and S. Sanieslevici, Eds, North Holland 1991.
Lattice calculations of nucleon axial form factor

[50] J.E. Mandula, Phys. Rev. Lett. **65** 1403 (1990).

[51] A.V. Soroko, N.M. Shumeiko, Sov. J. Nucl. Phys. 53, 628, 1991.
Radiative effects in semi-inclusive deep inelastic scattering of polarized leptons by polarized nucleons.

[52] J.E. Mandula, Nucl. Phys. B (Proc. Suppl.)**26** 356 (1992).

[53] R. Altemeyer *et al.,* Proceedings " Lattice 92 " Amsterdam,(The Netherlands), Nucl. Phys. B (Proc. Suppl.)**30**, 483, (1993).

[54] J.E. Mandula and M.C. Ogilvie, HEP-LAT/9208009.
A new technique for measuring the strangeness content of the proton on the lattice.

[55] A.H. Mueller, Nucl. Phys. Suppl. **29A,** 275, 1992, Apr. 1992.
Deep inelastic : outlook and perspectives.

[56] NMC Coll. E. Rondio *et al.,* Nucl. Phys. Suppl. **31,** 200, 1992.
NMC results on structure functions.

[57] R. Altemeyer *et al.,* Preprint DESY 92-187, HLRZ-92-103.
The axial baryonic charge and the spin content of the nucleon : a lattice investigation.

[58] S.D. Bass and A.W. Thomas, Cavendish Preprint HEP-93-4 (1993).
The spin structure of the nucleon.

[59] S.D. Bass, Preprint Cavendish-HEP-93-2, May 1993.
Gauge symmetry and the EMC spin effect.

[60] F. M. Steffens, and A. W. Thomas, Nucl. Phys. **A 568** 798, 1994.
A study of quark-parton distributions in a simple quark model.

[61] J. Bartelski and S. Tatur, Warsaw, Preprint HEP-PH-9409204. Acta Phys. Pol. **B26** , 913, 1994. HEP-PH/9512393.
Determination of polarized parton distributions in the nucleon.

[62] B. Alles *et al.,* Preprint IFUP-TH-14/94.
The spin content for the proton in quenched QCD.

[63] M. Kamionkowski *et al.,* Preprint IASSNS-HEP-94-14, Fev. 1994.
Implications of Recent Spin Structure Measurements for Neutralino dark Matter.

[64] J.N. Capdevielle and R. Attallah, J. Phys. G: Nucl. Part. Phys. **21** , 121, 1995.
Parton distributions and UHE cosmic-ray interactions.

[65] C. Bourrelly *et al.,* Z. Phys. **C 62** 431, 1994.
Fermi-Dirac distributions for quarks partons.

[66] C. Bourelly and J. Soffer, Phys. Rev. **D51,** 2108, 1995 .
Experimental evidence for simple relation between unpolarized and parton distribution.

[67] C. Bourelly and J. Soffer, Nucl. Phys. **B445,** 341, 1995.

[68] J. Soffer, Phys. Rev. Lett. **74** 1292, 1995.
Positivity constraints for spin dependent structure functions.

[69] J. Ellis and M. Karliner, Preprint CERN-TH-7324/94 Preprint TAUP-2178-94, Phys. Lett. **B341** , 397, 1995.
Determination of α_s and the Nucleon Spin decomposition using Recent Polarized Structure Function Data.

[70] M.Anselmino, A. Efremov, and E. Leader, Preprint CERN-TH/7216/94, April 1994, to appear in Physics Reports.
The Theory and Phenomenology of Polarized Deep Inelastic Scattering.

[71] H. Hogaasen and F. Myhrer, Preprint OSLO-TP-11-94, USC-NT-94-06, HEP-PH-9501414. February 1995.
The proton spin sum rule chiral prediction , an update.

[72] J. Kodeira, Preprint HUPD-9504, January 1995, HEP-PH-9501381.
Pertubative QCD and Nucleon Structure Functions.

[73] G. Kalbermann and J. M. Eisenberg, HEP-PH-9501302, January 1995.
Spin content from skyrmions with parameters fit to baryon properties.

[74] T. Gerhmann and W. J. Stirling, Preprint Durham DPT/94/38, May 1994, HEP-PH-9406212. Z. Phys. **C65** 461, 1995.
Spin-dependent parton distributions from polarized structure functions data.

[75] D. de Florian *et al.,* Phys. Rev. **D 51** , 37, 1995.
Polarized parton distributions.

[76] S. J. Brodsky and M. Burkardt and I. Schmidt, Nucl. Phys. **B441** 197, 1995. HEP-PH-94011328, 1994.
Pertubative QCD constraints on the shape of polarized quarks and gluon distributions.

[77] R. D. Ball, S. Forte and G. Ridolfi, Preprint CERN-TH-95-31, February 1995, Nucl. Phys. **B444,** 287, 1995.
Scale dependence and small x behaviour of polarized parton distributions.

[78] A. A. Anselm and M. Ryskin. Preprint RAl-95-030, March 1995.
Simple model for the spin crisis .

[79] CCFR Collaboration, A. O. Bazarko it et al., Z. Phys. **C65** 189, 1995.
Determination of the strange quark content of the nucleon from a next-to-leading order Q.C.D. analysis of neutron charm production.

[80] M. Gluck, *et al.,* Phys. Rev. **D53,** 4775, 1996, HEP-PH/9608347.
Next-to-leading order radiative parton model of polarized deep inelastic lepton-nucleon scattering.

[81] M. Gockeler, *et al.,* Preprint DESY-95-178, HEP-LAT/9509079. HEP-LAT/9511025.
Polarized nucleon structure from lattice QCD.

[82] G. Beccarini *et al.,* Nucl. Phys. **B456** , 271, 1995.
Deep inelastic scattering in improved lattice QCD.

[83] W. Melnitchouk and A.W. Thomas, Preprint ADP-95-52-T-199, Jul. 1995.
Nucleon structure functions at large x.

[84] W. Melnitchouk and A.W. Thomas, Z. phys. **A353,** 311, 1995, TUM-T399-95-7.
Meson cloud of the nucleon in polarized semiinclusive deepinelastic scattering.

[85] B.L. Ioffe, I.A. Shushpanov, ITEP-96-8, Dec.1995, HEP-PH/9602365.
The structure functions of longitudinal virtual photon at low virtualities.

[86] S.V. Goloskokov, HEP-PH/9604261, April 1996.
Diffractive contribution to G1 structure function at small x.

[87] G.P. Korchemsky, Preprint LPTHE-ORSAY-95076, HEP-PH/9511370.
Theoretical progress in QCD at small x.

[88] J. Franklin, Aug. 1995, HEP-PH/9508228.
The spin of the nucleon in its rest system.

[89] M. Birkel *et al.*, Preprint MPI-PHT-95-112, HEP-PH/9511424.
THe nucleon spin and the mixing of axial vector mesons.

[90] A.M. Kotzinian *et al.,* Preprint NIKHEF-95-059, HEP-PH/9511420.
Longitudinal quark polarization in transversely polarized nucleons.

[91] S.A. Kulagin, Preprint TPR-20-34, Phys. Rev. **C52** 932, 1995.
Spin dependent nuclear structure functions ; general approach with application to the deuteron,

[92] Bodo Lampe, Fortsch. Phys. 43, 673, 1995.
Trends in polarized lepton nucleon scattering.

[93] H. Hogaasen and F. Myhrer, Z. Phys. **C68** 625, 1995.
The proton spin sum rule chiral bag prediction, an update.

[94] F.M. Steffens and A. W. Thomas, Phys. Rev. **D53,** 1191, 1966, Sept. 1995, HEP-PH/9510460.
The role of strange and charm quarks in the nucleon spin structure.

[95] G. Piller, W. Melnitchouk, A.W. Thomas, Preprint TUM-T39-95-19, Dec. 1995.
Polarized deep-inelastic scattering from nuclei -a relativistic approach.

[96] M. Goshtasbpour, G. P. Ramsey, Preprint ANL-HEP-PR-94-90, Dec. 1995, HEP-PH/9512250.
What we can learn about nucleon spin structure function from recent data.

[97] J. Blumlein, Preprint C95/09/12, Dec. 1995, HEP-PH/9512272.
On the theoretical status of deep inelastic scattering.

[98] T.P. Cheng and Ling-Fong Li, Oct. 1995, HEP-PH/9510235.
Antiquark polarization inside the proton is small.

[99] Xiaoyuan Li and Yi Liao, Preprint AS-ITP-95-32, Oct. 1995, HEP-PH/9510237.
Axial vector couplings of the nucleon in chiral quark model incorporating $U(1)_A$ anomaly effects.

[100] D. de Florian *et al.,* Phys. Rev. **D53,** 73, 1996.
Scale dependence of polarized deep inelastic scattering asymmetries.

[101] W. Koepf, L.L. Frankfurt, M. Strikman, Phys. Rev. **D53,** 2586, 1996.
The nucleon's virtual meson cloud and deep inelastic scattering.

[102] H. Holtmann *et al.,* Nucl. Phys. **A596,** 631, 1996, Preprint KFA-IKP-TH-25-1994, Jan. 1996. HEP-PH/9601388.
Flavour and spin of the proton and the meson cloud.

[103] S. J. Brodsky *et al.,* Preprint SLAC-PUB-95-7085, Dec. 1995.
The generalized Crewther relation in QCD and its experimental consequences.

[104] A.L. Kataev, INR-0926-96, HEP-PH/9607426, July 1996.
The generalized Crewther relation: the peculiar aspects of the analytical pertubative QCD calculations.

[105] A. Szczurek, *et al.,* Preprint KFA-IKP-28-1995, FEB. 1996, HEP-PH/9602213.
Testing the meson cloud in the nucleon in Drell-Yan processes.

[106] L. Frankfurt, *et al.,* Feb. 1996, HEP-PH/9602301.
The nuclear effects in g_1^3He and the Bjorken sum rule for A=3

[107] J. Ellis and M. Karliner, Preprint CERN-TH/95-334, Jan 1996, HEP-PH/9601280.
The strange spin of the nucleon.

[108] G.P. Ramsey, M. Goshtasbpour, SPIN96, Amsterdam, 10-14 Sept. 1996, HEP-PH/9611216.
Nucleon spin distribution from recent SMC, SLAC, and DESY data.

[109] G.P. Ramsey, ANL-HEP-PR-96-103, HEP-PH/9702227, Feb. 1997, submitted Prog. Part. Nucl. Phys.
Probing nucleon spin structure.

[110] P.G. Ratcliffe, SPIN96, Amsterdam, Netherland, 10-14 Sept. 1996.
Symposium summary (SPIN PHYSICS 96).

[111] J. Soffer, O. Teryaev, SPIN96, Amsterdam, Netherland, 10-14 Sept. 1996, HEP-PH/9611233.
Neutron spin dependent structure function, Bjorken sum rule and first evidence for singlet contribution at low x.

[112] K. Tanikawa, DPNU-96-37, Aug. 1996.
Nucleon structure functions in the chiral quark soliton model.

[113] K. Susuki, T. Shigetani, Nucl. Phys. **A626,** 886, 1997, HEP-PH/9709394. Sept. 1997.
Chiral odd transversity spin structure function H1(X) of the nucleon in the constituent quark model.

[114] J. Blumlein *et al.,* HEP-PH/9609425, Sept. 1996.
Structure functions in deep inelastic at Hera.

[115] S. K. Ghosh, *et al.,* Nucl. Phys. **A596,** 670, 1996.
Strangeness production in neutron stars.

[116] Xiang-Dong Ji, *et al,*. Phys. Lett. 76, 740, 1996. HEP-PH/9510304.
The spin sructure in the asymptotic limit.

[117] D. Indumathi, W. Zhu, DO-TH-95-22, HEP-PH/9605417, May 1996.
A dynamical model for nuclear structure functions.

[118] F.M. Lev, HEP-PH/9606204, Jun 1996.
Problem with nonpertubative effects in deep inelastic scattering .

[119] S. Forte, PANIC96, Williamsburg, VA, 22-28 May 1996, HEP-PH/96102238.
Polarized structure functions: a status report.

[120] G. Ridolfi, DIS96, Rome, Italy,15-19 avril 1996, HEP-PH/9610214.
Spin effects in lepton-nucleon scattering: a theoretical overview.

[121] Xiang-dong Ji, SPIN96, Amsterdam, Netherland, 10-14 Sept. 1996. HEP-PH/9610369.
Hunting for the remaining spin in the nucleon.

[122] M. Anselmino, E. Leader, F. Murgia, DFTT-51-96, HEP-PH/9610407, Oct. 1996.
Single spin asymmetries in DIS.

[123] X. Artru, LYCEN-96-46, Jul. 1996.
Longitudinal and transverse polarizations in deep inelastic scattering.

[124] C.G. Boyd *et al.,* HEP-PH/9610518.
Corrections to the Bjorken and Voloshin sum rules.

[125] J. Ellis, HEP-PH/9611208.
Problems and prospects in spin physics.

[126] APCTP, Seoul, Korea, 4-10 June 1996, HEP-PH/9611254.
Current issues in the phenomenology of particles physics

[127] M. Genovese, Nuovo Cimento, **109A,** 177, 1996, CERN-TH/95-71, HEP-PH/9504202.
Anomalous evolution effects on singlet structure functions.

[128] P. Mathews *et al.,* HEP-PH/9607385, July 1996.
Transverse structure function in the factorization method.

[129] J. McCarthy, O.A. Rondon, T.J. Liu, Phys. Rev. **D54,** 2391, 1996.
Nucleon spin structure and quark helicity decomposition.

[130] W. Vogelsang, Phys. Rev. **D54,** 2023, 1996, HEP-PH/9512218.
A rederivation of the spin dependent next-to-leading order splitting functions.

[131] Hai.Yang Cheng, HEP-PH/9607254, Xth Spring school on particles and fields, National Cheng-kung Univ. Taiwan, ROC, March 20-22, 1996,
Status of the proton spin problem.

[132] U. G. Meissner, KFA-IKP-TH-1997-08, Mar. 1997.
Chiral structure and strange effects.

[133] B. Badelek, *et al.,* HEP-PH/9709363, Sept. 1997.
Unified description of the nonsinglet spin dependent structure function G1 incorporating Altarelli-Parisi evolution and the double logarithmic $Ln^2(1/x)$ effects at low x.

[134] W. Wislicki, HEP-PH/9802266, Feb.1998. Mod. Phys. Lett. **A13,** 405, 1998.
Search for anomaly at high x in polarized deep inelastic scattering data.

[135] K. Susuki, T. Shigetani, Nucl. Phys. **A626,** 886, 1997, HEP-PH/9709394. Sept.1997.
Chiral odd transversity spin structure function H1(x) of the nucleon in a constituent quark model.

[136] H. Bottcher, HEP-PH/9712458, Aug.1997.
Review on the status of spin structure function.

[137] C.E. Carlson, N.C. Mukhopadhyay, HEP-PH/981205, Jan.1998.
Pertubative duality in the resonance spin structure functions.

[138] J.C. Collins, HEP-PH/9801217, Jan. 1998.
Comment on 'interference fragmentation functions and valence quark spin distribution'.

[139] K.G. Chetyrkin *et al.,* HEP-PH/9801432, Jan. 1998.
Singlet polarization at $O(\alpha_s^2)$.

[140] J.J. Yang, Bo-Qiang, G.L. Li, HEP-PH/9802348, Feb. 1998 submitted to Phys. Lett.B.
The non-pertubative effect on $R = \sigma_(L)/\sigma_(T)$ from QCD vacuum.

[141] G. Altarelli *et al.,* CERN-TH-98-44, HEP-PH/9803237. Mar. 1998,
Theoretical analysis of polarized structure functions.

[142] J. Kwiecinski, HEP-PH/9803288, Jan. 1998.
Spin dependent structure function G(1) at low x.

[143] E. Reya, SPIN 97, 1-5 Sept. 1997, Zeuthen, Germany, DO-TH-97-25.
Spin physics : summary and outlook.

[144] M.J. Ramsey-Musolf, Hadron 97, Upton, N.Y. 25-30 Aug. 1997, HEP-PH/9712317,
Nucleon strangeness: theory.

[145] Bo-Qiang Ma, Phys. Lett. **B441,** 461, 1998, HEP-PH/9710247. The quark spin distribution of the nucleon.

[146] P. Zavada, HEP-PH/9803443, Mar. 1998, Nucleon spin structure and mass of quarks.

[147] B.L. Ioffe, HEP-PH/9804238, Feb. 1998. Nucleon spin content and axial coupling constants in QCD sum rules approach.

[148] W. Wislicki, PRINT-98-017, Apr. 1998. Quark spin distributions and axial anomaly in polarized deep inelastic scattering.

[149] S.V. Bashinskii, R.L. Jaffe, HEP-PH/9804397, April 1998, Quark and gluon orbital angular momentum in hard processes.

[150] D. de Florian, *et al.,* Phys. Rev. **D57,** 5803, 1998. Next to leading order analysis of inclusive and semi-inclusive polarized data.

[151] R.L. Jaffe, *et al.,* Phys. Rev. **D57,** 5920, 1998. Interference fragmentation functions and valence quark spin distributions in the nucleon.

[152] Jan Bartelski, *et al.,* HEP-PH/9804415, April 1998, Deep inelastic ratio $R = \sigma_L/\sigma_T$ and the possible existence of scalar partons in the nucleons.

[153] M. Genovese. HEP-PH/9805504, DIS 98, Brussel, Belgium, 4-8 Apr. 1998. Diffractive DIS and QCD: past, present and future.

[154] O. Schroder *et al.,* Phys. Lett. **B439,** 398, 1998, HEP-PH/9805251. Strangeness contribution to the polarized nucleon structure.

[155] B.L. Ioffe, A.G. Oganessian, Phys. Rev. **D57,** 6590, 1998.HEP-PH/9801345. Proton spin content and QCD topological susceptibility.

[156] F. Eisele, HEP-PH/9807028, Jul. 1998.
Nucleon structure functions.

[157] Bo-Qiang Ma, I. Schmidt, HEP-PH/9808202, Aug. 1998.
The quark angular momentum in a light-cone representation.

[158] M. Casu, L.M. Sehgal, Phys. Rev. **D58,** 033002, 1998.
Magnetic and axial vector form-factors as probes of the angular momentum in the proton.

[159] D. Drechsel *et al.,* Phys. Lett. **B420,** 248, 1998. NUCL-TH/9710029.
Dispersion relations and spin polarizabilities.

[160] Bodo Lampe and Ewald Reya, Preprint MPI-PhT/98-23, DO-TH 98/02, April 1998.
Spin physics and polarized structure functions.

[161] P. Desgrolard, *et al.,* Eur. Phys. J. C7, 263, 1999, HEP-PH/9803286,
Interpolating between soft and hard dynamics in deep inelastic scattering.

[162] O.V. Teryaev, HEP-PH/9808335, Aug. 1998.
Positivity constraints in QCD.

[163] P. Hoodbhoy, Xiangdong Ji, Wei Lu, HEP-PH/9808305, Aug. 1998.
Implications of color gauge symmetry for nucleon spin structure.

[164] K.A. Milton *et al.,* HEP-PH/9809510, Sept. 1998. Phys. Lett. **B439,** 165, 1998
The Bjorken sum rule in the analytic approach to pertubative QCD.

[165] K.A. Milton *et al.,* HEP-PH/9809513, Sept. 1998.
The Gross-Llewellyn Smith sum rule in the analytic approach to pertubative QCD.

[166] V.V. Burov, HEP-PH/9809541, INPC98, Sept. 1998.
Evolution of the EMC effect in light nuclei.

[167] M. Anselmino *et al.,* Int. J. Mod. Phys. **A13,** 2875, 1998.
Quark clustering effects in neutrino nucleon deep inelastic scattering.

[168] M. Anselmino, F. Murgia, HEP-PH/9808426, Aug. 1998.
Single spin asymmetries in transversely polarized proton anti-proton inclusive processes.

[169] X. Guo, J.W. Qiu, HEP-PH/9809325, Sept. 1998. Probing multi-parton correlation functions in deeply inelastic scattering.

[170] H. Weigel *et al.,* Phys. Rev. **D58,** 038501, 1998.
Comment on unpolarized and polarized quark distributions in the large N(C) limit.

[171] X. Song. SPIN98, HEP-PH/9810433, Sept. 1998.
Spin and orbital angular momentum in the chiral model.

[172] B.L. Ioffe, A.G. Oganessian, HEP-PH/9810430, Apr. 1998.
Proton spin content, axial coupling constant and QCD topological susceptibility.

[173] S. Hino *et al.,* SPIN98, Oct. 1998, HEP-PH/9810444.
Transversity distributions and spin asymmetries.

[174] G. Altarelli *et al.,* Acta Phys. Polon. **B29,** 1145, 1998, HEP-PH/9803237.
Theoretical analysis of polarized structure functions.

[175] P. Hagler, A. Schafer, Phys. Lett. **B430,** 179, 1998, HEP-PH/9802362.
Evolution equation for higher moments of angular momentum.

[176] X. Artru, J. Czyzewski, Acta Phys. Polon. **B29,** 2115, 1998, HEP-PH/9805463.
Transverse polarization of quark pairs created in string fragmentation.

[177] M. Wakamatsu, T. Kubota, Phys. Rev. **D 60:** 034020, 1999, HEP-PH/9809443.
Chiral symmetry and the nucleon spin structure functions.

[178] H. Weigel, MIT-CTP-2825,HEP-PH/9902390, Feb. 1999.
Nucleon Structure in a chiral soliton model.

[179] C. Boros and A.W. Thomas, ADP-99-9/T354, HEP-PH/9902372, FeB. 1999.
Parton distributions for the octet and decuplet baryons.

[180] A. Harindranath, Rajen Kundu, HEP-PH/9802406, Feb. 1999.
On orbital momentum in deep inelastic scattering.

[181] S. Bass, HEP-PH/9902280, Feb. 1999.
Constituents quarks and g_1.

[182] N.F. Nasrallah, HEP-PH/9903225, Mar. 1999.
On the spin content of the nucleon.

[183] L. McLarran, R. Venugopalan, Phys. Rev. **D59** 094002, 1999, HEP-PH/9809427.
Fock space distributions, structure functions, higher twists and small x.

[184] T. Gehrmann, T. Sloan, HEP-PH/9902225. Sept. 1998. J. Phys. **G25,** 1527, 1999.
Spin physics in deep inelastic scattering: summary.

[185] A. Szczurek, V. Uleshchenko, HEP-PH/9904288, Apr. 1999.
Non-partonic components in the nucleon structure at small Q^2 in the broad range of x.

[186] D. Boer, DIS 99, Zeuthen , Germany, 19-23 Apr. 1999, HEP-PH/9905336.
Intrinsic transverse momentum and transverse spin asymmetries.

[187] M.W. Krasny, 34th Rencontres de Moriond, QCD and hadronic interactions , Les Arcs, France, 20-27 Mar. 1999, HEP-PH/9905371.
Summary of the experimental part of the 34th rencontres de Moriond.

[188] H. Weigel, *et al.,* HEP-PH/9905329.
Hadron structure functions in a chiral quark model: regularization, scaling and sum rules.

[189] W. Vogelsang, DIS 99, Zeuthen , Germany, 19-23 Apr. 1999, HEP-PH/9906289.
Polarized lepton nucleon scattering: summary of the theory talks on spin physics at DIS 99.

[190] M. Karliner, H.J. Lipkin, HEP-PH/9906321, Jun. 1999.
Nucleon spin with and without hyperon data: a new tool analysis.

[191] J. Santiago, J. Yndurain, QCD 99, Montpellier, France, 7-13 Jul. 1999 , HEP-PH/9907387.
NNLO calculation of DIS: precision determination of the strong coupling constant, extraction of the gluon density, and comments on 'hidden" gluinos.

[192] S. Catani, M.H. Seymour, HEP-PH/9907061, Jul. 1999.
The forward- backward asymmetry in NNLO QCD.

[193] V. Barone, *et al.,*Eur. Phys. J. C12:243, 2000, HEP-PH/9907512.
A new global analysis of deep inelastic scattering data.

[194] A. Harindranath, A. Mukherjee, HEP-PH/9908424, Aug. 1999.
Transverse spin in light front QCD.

[195] M. Wakamatsu, T. Watabe, HEP-PH/9908425, Aug. 1999.
Do we expect light flavor asymmetry also for spin-dependent distribution funcctions of the nucleon.

[196] V. Barone, A. Drago, HEP-PH/9908437, Aug. 1999.
Spin and total angular momentum of the glue.

[197] T. Gehrmann, HEP-PH/9908500, May 1999.
Spin Physics: summary

[198] W. Melnitchouk, HEP-PH/9909463, Sep. 1999.
Flavor decomposition of the nucleon.

[199] SESAM Coll. J. Viehoff,*et al.*,HEP-LAT/991001, Jun. 1999.
Flavor singlet axial coupling of the proton: an updated analysis.

[200] B. Dressler, *et al.,* HEP-PH/9909541, Sep. 1999.
Flavor asymmetry of polarized anti-quark distributions and semi-inclusive DIS.

[201] J. Edelman *et al.,* HEP-PH/9909524, Sep. 1999.
Resonances ant higher twist in polarized lepton nucleon scattering.

[202] G.K. Mallot ,HEP-EX/9912040, Aug. 1999,
The spin structure of the nucleon.

[203] M. Binger *et al.,* HEP-PH/9912241, Dec. 1999.
Renormalization-scale-invariant PQCD predictions for $R_e + e-$ and the Bjorkensum rule at next-to-leading order.

[204] M. Goshtabpour, P.G. Ratcliffe, HEPPH/9912334, Dec. 1999.
Phenomenology of $g_1(x)$ in the observed small-x.region.

[205] M. Wakamatsu, T. Watabe, HEP-PH/9912500, Dec. 1999.
Spin and orbital angular momentum distribution functions of the nucleon.

[206] Bo-Qiang Ma, HEP-PH/0001094, Dec. 1999.
The spin structure of the proton.

[207] Hai-yang Cheng HEP-PH/0002157, Mar. 2000,
The proton puzzle: a status report.

[208] X.B. Chen,*et al.,* HEP-PH/0002200, Feb. 2000.
Strange quark polarization of the nucleon: a parameter independent prediction of the chiral potential model.

[209] X. Song, HEP-PH/0002201, Nov. 1999.
Substructure of the nucleon in the chiral quark model.