


Stanley Brodsky

Professor of Particle Physics and Astrophysics, Emeritus

SLAC General Program

 Curriculum Vitae available Online

Bio

BIO

Recipient of the Watkins Physics Award and Visiting Professorship by the Watkins Foundations at Wichita State University in November, 2017.

Awarded the International Pomeranchuk Prize for 2015.

The Pomeranchuk Prize is a major international award for theoretical physics, awarded annually since 1998 by the Institute for Theoretical and Experimental Physics (ITEP)

from Moscow to one international scientist and one Russian scientist, It is named after Russian physicist Isaak Yakovlevich Pomeranchuk, who together with Lev Landau,

established the Theoretical Physics Department of the Institute. The Laureates for 2015 were Professor Victor Fadin and myself.

Recipient of the 2007 J. J. Sakurai Prize in Theoretical Physics, awarded by the American Physical Society.

Honorary degree of doctor scientiarum honoris causa (dr.scient.h.c.) from Southern Denmark University

Alexander von Humboldt Distinguished U.S. Senior Scientist Award in 1987

Chair of the Hadron Physics Topical Physics Group (GHP) of the American Physical Society, 2010.

ACADEMIC APPOINTMENTS

- Emeritus Faculty, Acad Council, SLAC General Program

Publications

PUBLICATIONS

- **Color symmetry and confinement as an underlying superconformal structure in holographic QCD** *INTERNATIONAL JOURNAL OF MODERN PHYSICS A*
de Teramond, G. F., Brodsky, S. J.
2024; 39 (09N10)
- **Entropy from entangled parton states and high-energy scattering behavior** *PHYSICS LETTERS B*
Doscha, H., de Teramond, G. F., Brodsky, S. J.
2024; 850
- **High precision tests of QCD without scale or scheme ambiguities** *PROGRESS IN PARTICLE AND NUCLEAR PHYSICS*
Di Giustino, L., Brodsky, S. J., Ratcliffe, P. G., Wu, X., Wang, S.
2024; 135
- **QCD running couplings and effective charges** *PROGRESS IN PARTICLE AND NUCLEAR PHYSICS*
Deur, A., Brodsky, S. J., Roberts, C. D.
2024; 134
- **Extending the predictive power of perturbative QCD using the principle of maximum conformality and the Bayesian analysis** *EUROPEAN PHYSICAL JOURNAL C*

-
- Shen, J., Zhou, Z., Wang, S., Yan, J., Wu, Z., Wu, X., Brodsky, S. J.
2023; 83 (4)
- **Detailed comparison of renormalization scale-setting procedures based on the principle of maximum conformality** *NUCLEAR PHYSICS B*
Huang, X., Yan, J., Ma, H., Di Giustino, L., Shen, J., Wu, X., Brodsky, S. J.
2023; 989
 - **Elimination of QCD Renormalization Scale and Scheme Ambiguities** *UNIVERSE*
Wang, S., Brodsky, S. J., Wu, X., Shen, J., Di Giustino, L.
2023; 9 (4)
 - **Heavy quark contribution to the electromagnetic properties of the nucleon** *PHYSICAL REVIEW D*
Brodsky, S. J., Lyubovitskij, V. E., Schmidt, I.
2022; 106 (9)
 - **Predictions for the Sivers single-spin asymmetry from holographic QCD** *PHYSICAL REVIEW D*
Lyubovitskij, V. E., Schmidt, I., Brodsky, S. J.
2022; 105 (11)
 - **Onset of Color Transparency in Holographic Light-Front QCD** *PHYSICS*
Brodsky, S. J., de Teramond, G. F.
2022; 4 (2): 633-646
 - **Artificial dynamical effects in quantum field theory** *NATURE REVIEWS PHYSICS*
Brodsky, S. J., Deur, A., Roberts, C. D.
2022
 - **Towards a single scale-dependent Pomeron in holographic light-front QCD** *PHYSICAL REVIEW D*
Dosch, H., de Teramond, G. F., Liu, T., Sufian, R., Brodsky, S. J., Deur, A., HLFHS Collaboration
2022; 105 (3)
 - **The diffractive contribution to deep inelastic lepton-proton scattering: Implications for QCD momentum sum rules and parton distributions** *PHYSICS LETTERS B*
Brodsky, S. J., Lyubovitskij, V. E., Schmidt, I.
2022; 824
 - **Novel corrections to the momentum sum rule for nuclear structure functions** *PHYSICS LETTERS B*
Brodsky, S. J., Lyubovitskij, V. E., Schmidt, I.
2022; 824
 - **Longitudinal dynamics and chiral symmetry breaking in holographic light-front QCD** *PHYSICAL REVIEW D*
de Teramond, G. F., Brodsky, S. J.
2021; 104 (11)
 - **Gluon matter distribution in the proton and pion from extended holographic light-front QCD** *PHYSICAL REVIEW D*
de Teramond, G. F., Dosch, H. G., Liu, T., Sufian, R., Brodsky, S. J., Deur, A.
2021; 104 (11)
 - **Reanalysis of the top-quark pair hadroproduction and a precise determination of the top-quark pole mass at the LHC** *CHINESE PHYSICS C*
Wang, S., Wu, X., Shen, J., Brodsky, S. J.
2021; 45 (11)
 - **QCD hidden-color hexadiquark in the core of nuclei** *NUCLEAR PHYSICS A*
West, J., Brodsky, S. J., de Teramond, G. F., Goldhaber, A. S., Schmidt, I.
2021; 1007
 - **Comparing light-front quantization with instant-time quantization** *PHYSICS REPORTS-REVIEW SECTION OF PHYSICS LETTERS*
Mannheim, P. D., Lowdon, P., Brodsky, S. J.
2021; 891: 1-65

- **Scale-fixed predictions for gamma + eta(c) production in electron-positron collisions at NNLO in perturbative QCD** *JOURNAL OF HIGH ENERGY PHYSICS*
Yu, H., Sang, W., Huang, X., Zeng, J., Wu, X., Brodsky, S. J.
2021
- **Constraints on charm-anticharm asymmetry in the nucleon from lattice QCD** *PHYSICS LETTERS B*
Sufian, R., Liu, T., Alexandru, A., Brodsky, S. J., de Teramond, G. F., Dosch, H., Draper, T., Liu, K., Yang, Y.
2020; 808
- **Frame-independent spatial coordinate (z)-tilde: Implications for light-front wave functions, deep inelastic scattering, light-front holography, and lattice QCD calculations** *PHYSICAL REVIEW C*
Miller, G. A., Brodsky, S. J.
2020; 102 (2)
- **Infinite-order scale-setting using the principle of maximum conformality: A remarkably efficient method for eliminating renormalization scale ambiguities for perturbative QCD** *PHYSICAL REVIEW D*
Di Giustino, L., Brodsky, S. J., Wang, S., Wu, X.
2020; 102 (1)
- **Renormalization scale setting for heavy quark pair production in e(+) e(-) annihilation near the threshold region** *PHYSICAL REVIEW D*
Wang, S., Brodsky, S. J., Wu, X., Di Giustino, L., Shen, J.
2020; 102 (1)
- **Diffractive dissociation of alpha particles as a test of isophobic short-range correlations inside nuclei** *PHYSICS LETTERS B*
West, J., Brodsky, S. J., de Teramond, G. F., Schmidt, I.
2020; 805
- **Unified Description of Polarized and Unpolarized Quark Distributions in the Proton** *PHYSICAL REVIEW LETTERS*
Liu, T., Sufian, R., de Teramond, G. F., Dosch, H., Brodsky, S. J., Deur, A., HLFHS Collaboration
2020; 124 (8): 082003
- **Intrinsic charm production of doubly charmed baryons: Collider vs. fixed-target** *SCIENCE CHINA-PHYSICS MECHANICS & ASTRONOMY*
Vogt, R., Brodsky, S. J.
2019; 63 (2)
- **Novel method for the precise determination of the QCD running coupling from event shape distributions in electron-positron annihilation** *PHYSICAL REVIEW D*
Wang, S., Brodsky, S. J., Wu, X., Shen, J., Di Giustino, L.
2019; 100 (9)
- **Structure of light-front vacuum sector diagrams** *PHYSICS LETTERS B*
Mannheim, P. D., Lowdon, P., Brodsky, S. J.
2019; 797
- **The QCD renormalization group equation and the elimination of fixed-order scheme-and-scale ambiguities using the principle of maximum conformality** *PROGRESS IN PARTICLE AND NUCLEAR PHYSICS*
Wu, X., Shen, J., Du, B., Huang, X., Wang, S., Brodsky, S. J.
2019; 108
- **The spin structure of the nucleon** *REPORTS ON PROGRESS IN PHYSICS*
Deur, A., Brodsky, S. J., de Teramond, G. F.
2019; 82 (7): 076201
- **Isoscalar mesons and exotic states in light front holographic QCD** *PHYSICAL REVIEW D*
Zou, L., Dosch, H., de Teramond, G. F., Brodsky, S. J.
2019; 99 (11)
- **Thrust distribution in electron-positron annihilation using the principle of maximum conformality** *PHYSICAL REVIEW D*
Wang, S., Brodsky, S. J., Wu, X., Di Giustino, L.
2019; 99 (11)

- **Using QCD counting rules to identify the production of gluonium** *PHYSICS LETTERS B*
Brodsky, S. J., Llanes-Estrada, F. J.
2019; 793: 405–10
- **Extending the predictive power of perturbative QCD** *EUROPEAN PHYSICAL JOURNAL C*
Du, B., Wu, X., Shen, J., Brodsky, S. J.
2019; 79 (3)
- **Color Confinement and Supersymmetric Properties of Hadron Physics from Light-Front Holography**
Brodsky, S. J., Bordalo, P., Barao, F., Bicudo, P., Bozzo, M., Cenci, P., Franco, C., Goncalo, R., Lazzeroni, C., Leonardo, N., McKenna, J., Ramos, S., Rubin, et al
IOP PUBLISHING LTD.2019
- **Exclusive production of $J/\psi + \eta(c)$ at the B factories Belle and BABAR using the principle of maximum conformality** *PHYSICAL REVIEW D*
Sun, Z., Wu, X., Ma, Y., Brodsky, S. J.
2018; 98 (9)
- **Supersymmetric and Conformal Features of Hadron Physics** *UNIVERSE*
Brodsky, S. J.
2018; 4 (11)
- **Hadron Spectroscopy and Dynamics from Light-Front Holography and Superconformal Algebra**
Brodsky, S. J.
SPRINGER WIEN.2018
- **Supersymmetry in the double-heavy hadronic spectrum** *PHYSICAL REVIEW D*
Nielsen, M., Brodsky, S. J., de Teramond, G. F., Dosch, H., Navarra, F. S., Zou, L.
2018; 98 (3)
- **Ridge effect, azimuthal correlations, and other novel features of gluonic string collisions in high energy photon-mediated reactions** *PHYSICAL REVIEW D*
Glazek, S. D., Brodsky, S. J., Goldhaber, A. S., Brown, R. W.
2018; 97 (11)
- **Hadronic superpartners from a superconformal and supersymmetric algebra** *PHYSICAL REVIEW D*
Nielsen, M., Brodsky, S. J.
2018; 97 (11)
- **Solution to the $\gamma\gamma^* \rightarrow \eta(c)$ puzzle using the principle of maximum conformality** *PHYSICAL REVIEW D*
Wang, S., Wu, X., Sang, W., Brodsky, S. J.
2018; 97 (9)
- **Novel demonstration of the renormalization group invariance of the fixed-order predictions using the principle of maximum conformality and the C-scheme coupling** *PHYSICAL REVIEW D*
Wu, X., Shen, J., Du, B., Brodsky, S. J.
2018; 97 (9)
- **Universality of Generalized Parton Distributions in Light-Front Holographic QCD** *PHYSICAL REVIEW LETTERS*
de Teramond, G. F., Liu, T., Sufian, R., Dosch, H., Brodsky, S. J., Deur, A., HLFHS Collaboration
2018; 120 (18): 182001
- **Supersymmetric Properties of Hadron Physics from Light-Front Holography and Superconformal Algebra and other Advances in Light-Front QCD** *FEW-BODY SYSTEMS*
Brodsky, S. J.
2018; 59 (3)
- **A precise determination of the top-quark pole mass** *EUROPEAN PHYSICAL JOURNAL C*
Wang, S., Wu, X., Si, Z., Brodsky, S. J.
2018; 78 (3)
- **QCD constituent counting rules for neutral vector mesons** *PHYSICAL REVIEW D*
Brodsky, S. J., Lebed, R. F., Lyubovitskij, V. E.

2018; 97 (3)

- **Physics perspectives with AFTER@LHC (A Fixed Target Experiment at LHC)**
Massacrier, L., Anselmino, M., Araldi, R., Brodsky, S. J., Chambert, V., Da Silva, C., Didelez, J. P., Echevarria, M. G., Ferreira, E. G., Fleuret, F., Gao, Y., Genolini, B., Hadjidakis, et al
E D P SCIENCES.2018
- **Color Confinement, Hadron Dynamics, and Hadron Spectroscopy from Light-Front Holography and Superconformal Algebra** *ADVANCES IN HIGH ENERGY PHYSICS*
Brodsky, S. J.
2018
- **IceCube can constrain the intrinsic charm of the proton** *PHYSICAL REVIEW D*
Laha, R., Brodsky, S. J.
2017; 96 (12)
- **Rigorous constraints on the matrix elements of the energy-momentum tensor** *PHYSICS LETTERS B*
Lowdon, P., Chiu, K., Brodsky, S. J.
2017; 774: 1–6
- **Implications of the principle of maximum conformality for the QCD strong coupling** *PHYSICS LETTERS B*
Deur, A., Shen, J., Wu, X., Brodsky, S. J., de Teramond, G. F.
2017; 773: 98–104
- **Advances in Light-Front QCD: Supersymmetric Properties of Hadron Physics from Light-Front Holography and Superconformal Algebra** *FEW-BODY SYSTEMS*
Brodsky, S. J.
2017; 58 (3)
- **Novel all-orders single-scale approach to QCD renormalization scale-setting** *PHYSICAL REVIEW D*
Shen, J., Wu, X., Du, B., Brodsky, S. J.
2017; 95 (9)
- **Pre-Town Meeting on spin physics at an Electron-Ion Collider** *EUROPEAN PHYSICAL JOURNAL A*
Aschenauer, E., Balitsky, I., Bland, L., Brodsky, S. J., Burkardt, M., Burkert, V., Chen, J., Deshpande, A., Diehl, M., Gamberg, L., Perdekamp, M. G., Huang, J., Hyde, et al
2017; 53 (4)
- **Angular momentum conservation law in light-front quantum field theory** *PHYSICAL REVIEW D*
Chiu, K. Y., Brodsky, S. J.
2017; 95 (6)
- **Supersymmetry across the light and heavy-light hadronic spectrum. II** *PHYSICAL REVIEW D*
Dosch, H. G., de Teramond, G. F., Brodsky, S. J.
2017; 95 (3)
- **Analysis of nucleon electromagnetic form factors from light-front holographic QCD: The spacelike region** *PHYSICAL REVIEW D*
Sufian, R. S., de Teramond, G. F., Brodsky, S. J., Deur, A., Dosch, H. G.
2017; 95 (1)
- **QCD compositeness as revealed in exclusive vector boson reactions through double-photon annihilation: $e^{+}e^{-} \rightarrow \gamma \gamma^{*} \rightarrow \gamma V-0$ and $e^{+}e^{-} \rightarrow \gamma^{*}\gamma^{*} \rightarrow (VV0)-V-0$** *PHYSICS LETTERS B*
Brodsky, S. J., Lebed, R. F., Lyubovitskij, V. E.
2017; 764: 174-179
- **LHC forward physics** *JOURNAL OF PHYSICS G-NUCLEAR AND PARTICLE PHYSICS*
Akiba, K., Akbiyik, M., Albrow, M., Arneodo, M., Avati, V., Baechler, J., Baillie, O. V., Bartalini, P., Bartels, J., Baur, S., Baus, C., Beaumont, W., Behrens, et al
2016; 43 (11)
- **Application of the principle of maximum conformality to the hadroproduction of the Higgs boson at the LHC** *PHYSICAL REVIEW D*
Wang, S., Wu, X., Brodsky, S. J., Mojaza, M.

2016; 94 (5)

- **The QCD running coupling** *PROGRESS IN PARTICLE AND NUCLEAR PHYSICS*
Deur, A., Brodsky, S. J., de Teramond, G. F.
2016; 90: 1-74
- **Novel QCD physics at NICA** *EUROPEAN PHYSICAL JOURNAL A*
Brodsky, S. J.
2016; 52 (8)
- **Universal effective hadron dynamics from superconformal algebra** *PHYSICS LETTERS B*
Brodsky, S. J., de Teramond, G. F., Dosch, H. G., Lorce, C.
2016; 759: 171-177
- **Light-Front Holography, Color Confinement, and Supersymmetric Features of QCD** *FEW-BODY SYSTEMS*
Brodsky, S. J.
2016; 57 (8): 703-715
- **Meson/baryon/tetraquark supersymmetry from superconformal algebra and light-front holography** *INTERNATIONAL JOURNAL OF MODERN PHYSICS A*
Brodsky, S. J., de Teramond, G. F., Dosch, H. G., Lorce, C.
2016; 31 (19)
- **On the interface between perturbative and nonperturbative QCD** *PHYSICS LETTERS B*
Deur, A., Brodsky, S. J., de Teramond, G. F.
2016; 757: 275-281
- **Importance of proper renormalization scale-setting for QCD testing at colliders** *FRONTIERS OF PHYSICS*
Wu, X., Wang, S., Brodsky, S. J.
2016; 11 (1)
- **Extended conformal symmetry in d not equal 4: Conformal symmetry of Abelian gauge theory in the physical sector** *PHYSICAL REVIEW D*
Chiu, K. Y., Brodsky, S. J.
2016; 93 (2)
- **Comment on "New Limits on Intrinsic Charm in the Nucleon from Global Analysis of Parton Distributions".** *Physical review letters*
Brodsky, S. J., Gardner, S.
2016; 116 (1): 019101
- **Predictions for the top-quark forward-backward asymmetry at high invariant pair mass using the principle of maximum conformality** *PHYSICAL REVIEW D*
Wang, S., Wu, X., Si, Z., Brodsky, S. J.
2016; 93 (1)
- **Renormalization group invariance and optimal QCD renormalization scale-setting: a key issues review** *REPORTS ON PROGRESS IN PHYSICS*
Wu, X., Ma, Y., Wang, S., Fu, H., Ma, H., Brodsky, S. J., Mojaza, M.
2015; 78 (12)
- **Connecting the hadron mass scale to the fundamental mass scale of quantum chromodynamics** *PHYSICS LETTERS B*
Deur, A., BRODSKY, S. J., de Teramond, G. F.
2015; 750: 528-532
- **Supersymmetry across the light and heavy-light hadronic spectrum** *PHYSICAL REVIEW D*
Dosch, H. G., de Teramond, G. F., Brodsky, S. J.
2015; 92 (7)
- **A possible solution to the B -> pi pi puzzle using the principle of maximum conformality** *PHYSICS LETTERS B*
Qiao, C., Zhu, R., Wu, X., Brodsky, S. J.
2015; 748: 422-427
- **Degeneracy relations in QCD and the equivalence of two systematic all-orders methods for setting the renormalization scale** *PHYSICS LETTERS B*

- Bi, H., Wu, X., Ma, Y., Ma, H., Brodsky, S. J., Mojaza, M.
2015; 748: 13-18
- **The Light-Front Schrodinger Equation and the Determination of the Perturbative QCD Scale from Color Confinement: A First Approximation to QCD FEW-BODY SYSTEMS**
Brodsky, S. J., de Teramond, G. F., Deur, A., Dosch, H. G.
2015; 56 (6-9): 621-632
 - **Light-front holographic QCD and emerging confinement** *PHYSICS REPORTS-REVIEW SECTION OF PHYSICS LETTERS*
Brodsky, S. J., de Teramond, G. F., Dosch, H. G., Erlich, J.
2015; 584: 1-105
 - **QCD dynamics of tetraquark production** *PHYSICAL REVIEW D*
Brodsky, S. J., Lebed, R. F.
2015; 91 (11)
 - **Setting the renormalization scale in perturbative QCD: Comparisons of the principle of maximum conformality with the sequential extended Brodsky-Lepage-Mackenzie approach** *PHYSICAL REVIEW D*
Ma, H., Wu, X., Ma, Y., Brodsky, S. J., Mojaza, M.
2015; 91 (9)
 - **Superconformal baryon-meson symmetry and light-front holographic QCD** *PHYSICAL REVIEW D*
Dosch, H. G., de Teramond, G. F., Brodsky, S. J.
2015; 91 (8)
 - **Baryon spectrum from superconformal quantum mechanics and its light-front holographic embedding** *PHYSICAL REVIEW D*
de Teramond, G. F., Dosch, H. G., Brodsky, S. J.
2015; 91 (4)
 - **Exclusive processes and the fundamental structure of hadrons** *INTERNATIONAL JOURNAL OF MODERN PHYSICS A*
Brodsky, S. J.
2015; 30 (2)
 - **A Review of the Intrinsic Heavy Quark Content of the Nucleon** *ADVANCES IN HIGH ENERGY PHYSICS*
BRODSKY, S. J., Kusina, A., LYONNET, F., Schienbein, I., Spiesberger, H., Vogt, R.
2015
 - **Application of the principle of maximum conformality to the top-quark charge asymmetry at the LHC** *PHYSICAL REVIEW D*
Wang, S., Wu, X., Si, Z., Brodsky, S. J.
2014; 90 (11)
 - **Effective confining potentials for QCD** *PHYSICAL REVIEW D*
Trawinski, A. P., Glazek, S. D., Brodsky, S. J., de Teramond, G. F., Dosch, H. G.
2014; 90 (7)
 - **Electron $g-2$ in Light-front Quantization** *PHYSICS LETTERS B*
Zhao, X., Honkanen, H., Maris, P., Vary, J. P., Brodsky, S. J.
2014; 737: 65-69
 - **Dynamical Picture for the Formation and Decay of the Exotic XYZ Mesons** *PHYSICAL REVIEW LETTERS*
Brodsky, S. J., Hwang, D. S., Lebed, R. F.
2014; 113 (11)
 - **Reanalysis of the higher order perturbative QCD corrections to hadronic Z decays using the principle of maximum conformality** *PHYSICAL REVIEW D*
Wang, S., Wu, X., Brodsky, S. J.
2014; 90 (3)
 - **Light-front holographic QCD and color confinement** *INTERNATIONAL JOURNAL OF MODERN PHYSICS A*
Brodsky, S. J., de Teramond, G. F., Dosch, H. G.
2014; 29 (21)

- **Applications of Basis Light-Front Quantization to QED** *International Conference on Light-Cone Physics - Hadronic and Particle Physics (LC)*
Vary, J. P., Zhao, X., Ilderton, A., Honkanen, H., Maris, P., Brodsky, S. J.
ELSEVIER SCIENCE BV.2014: 10–15
- **QCD on the Light-Front** *FEW-BODY SYSTEMS*
Brodsky, S. J., de Teramond, G. F., Dosch, H. G.
2014; 55 (5-7): 407-423
- **Light-Front Holographic QCD and the Confinement Potential** *International Conference on Light-Cone Physics - Hadronic and Particle Physics (LC)*
Brodsky, S. J., de Teramond, G. F., Dosch, H. G.
ELSEVIER SCIENCE BV.2014: 1–9
- **Threefold complementary approach to holographic QCD** *PHYSICS LETTERS B*
Brodsky, S. J., de Teramond, G. E., Dosch, H. G.
2014; 729: 3-8
- **Systematic scale-setting to all orders: The principle of maximum conformality and commensurate scale relations** *PHYSICAL REVIEW D*
Brodsky, S. J., Mojaza, M., Wu, X.
2014; 89 (1)
- **Spin physics at a fixed-target experiment at the LHC (AFTER@LHC)** *PHYSICS OF PARTICLES AND NUCLEI*
Rakotozafindrabe, A., Anselmino, M., Araldi, R., BRODSKY, S. J., Chambert, V., Didelez, J. P., Genolini, B., Ferreiro, E. G., Fleuret, F., Hadjidakis, C., Lansberg, J. P., Lorce, C., Rosier, et al
2014; 45 (1): 336-337
- **Novel six-quark hidden-color dibaryon states in QCD** *PHYSICS LETTERS B*
Bashkanov, M., Brodsky, S. J., CLEMENT, H.
2013; 727 (4-5): 438-442
- **Linear polarization of gluons and photons in unpolarized collider experiments** *JOURNAL OF HIGH ENERGY PHYSICS*
Pisano, C., Boer, D., Brodsky, S. J., Buffing, M. G., Mulders, P. J.
2013
- **Possible multiparticle ridge-like correlations in very high multiplicity proton-proton collisions** *PHYSICS LETTERS B*
Bjorken, J. D., Brodsky, S. J., Goldhaber, A. S.
2013; 726 (1-3): 344-346
- **The renormalization scale-setting problem in QCD** *PROGRESS IN PARTICLE AND NUCLEAR PHYSICS*
Wu, X., Brodsky, S. J., Mojaza, M.
2013; 72: 44-98
- **Single-spin asymmetries in semi-inclusive deep inelastic scattering and Drell-Yan processes** *PHYSICAL REVIEW D*
Brodsky, S. J., Hwang, D. S., Kovchegov, Y. V., Schmidt, I., Sievert, M. D.
2013; 88 (1)
- **STUDIES OF NUCLEON RESONANCE STRUCTURE IN EXCLUSIVE MESON ELECTROPRODUCTION** *INTERNATIONAL JOURNAL OF MODERN PHYSICS E-NUCLEAR PHYSICS*
Aznauryan, I. G., Bashir, A., Braun, V. M., BRODSKY, S. J., Burkert, V. D., Chang, L., Chen, C., El-Bennich, B., Cloet, I. C., Cole, P. L., Edwards, R. G., Fedotov, G. V., GIANNINI, et al
2013; 22 (6)
- **Systematic All-Orders Method to Eliminate Renormalization-Scale and Scheme Ambiguities in Perturbative QCD** *PHYSICAL REVIEW LETTERS*
Mojaza, M., Brodsky, S. J., Wu, X.
2013; 110 (19)
- **Ultra-relativistic heavy-ion physics with AFTER@LHC** *NUCLEAR PHYSICS A*
Rakotozafindrabe, A., Araldi, R., BRODSKY, S. J., Chambert, V., Didelez, J. P., Genohni, B., Ferreiro, E. G., Fleuret, F., Hadjidakis, C., Lansberg, J. P., Rosier, P., Sehienbein, I., Scomparin, et al
2013; 904: 957C-960C

- **Kinematical and dynamical aspects of higher-spin bound-state equations in holographic QCD** *PHYSICAL REVIEW D*
de Teramond, G. F., Dosch, H. G., Brodsky, S. J.
2013; 87 (7)
- **Physics opportunities of a fixed-target experiment using LHC beams** *PHYSICS REPORTS-REVIEW SECTION OF PHYSICS LETTERS*
BRODSKY, S. J., Fleuret, F., Hadjidakis, C., Lansberg, J. P.
2013; 522 (4): 239-255
- **Setting the renormalization scale in QCD: The principle of maximum conformality** *PHYSICAL REVIEW D*
Brodsky, S. J., Di Giustino, L.
2012; 86 (8)
- **Self-consistency requirements of the renormalization group for setting the renormalization scale** *PHYSICAL REVIEW D*
Brodsky, S. J., Wu, X.
2012; 86 (5)
- **Application of the principle of maximum conformality to top-pair production** *PHYSICAL REVIEW D*
Brodsky, S. J., Wu, X.
2012; 86 (1)
- **Eliminating the Renormalization Scale Ambiguity for Top-Pair Production Using the Principle of Maximum Conformality** *PHYSICAL REVIEW LETTERS*
Brodsky, S. J., Wu, X.
2012; 109 (4)
- **A Large Hadron Electron Collider at CERN** *JOURNAL OF PHYSICS G-NUCLEAR AND PARTICLE PHYSICS*
Fernandez, J. L., Adolphsen, C., Akay, A. N., Aksakal, H., Albacete, J. L., Alekhin, S., Allport, P., Andreev, V., Appleby, R. B., Arikan, E., Armesto, N., Azuelos, G., Bai, et al
2012; 39 (7)
- **Quarkonium Physics at a Fixed-Target Experiment using the LHC Beams** *FEW-BODY SYSTEMS*
Lansberg, J. P., BRODSKY, S. J., Fleuret, F., Hadjidakis, C.
2012; 53 (1-2): 11-25
- **Application of the principle of maximum conformality to the top-quark forward-backward asymmetry at the Tevatron** *PHYSICAL REVIEW D*
Brodsky, S. J., Wu, X.
2012; 85 (11)
- **Confinement contains condensates** *PHYSICAL REVIEW C*
Brodsky, S. J., Roberts, C. D., Shrock, R., Tandy, P. C.
2012; 85 (6)
- **Atoms in flight and the remarkable connections between atomic and hadronic physics** *4th International Conference on Exotic Atoms and Related Topics (EXA)*
Brodsky, S. J.
SPRINGER.2012: 83-92
- **Light-Front Holography, Light-Front Wavefunctions, and Novel QCD Phenomena** *FEW-BODY SYSTEMS*
Brodsky, S. J., de Teramond, G. F.
2012; 52 (3-4): 203-222
- **Electron Anomalous Magnetic Moment in Basis Light-Front Quantization Approach** *FEW-BODY SYSTEMS*
Zhao, X., Honkanen, H., Maris, P., Vary, J. P., Brodsky, S. J.
2012; 52 (3-4): 339-344
- **AdS/QCD and Applications of Light-Front Holography** *COMMUNICATIONS IN THEORETICAL PHYSICS*
Brodsky, S. J., Cao Fu-Guang, F. G., de Teramond, G. F.
2012; 57 (4): 641-664
- **Scale setting using the extended renormalization group and the principle of maximum conformality: The QCD coupling constant at four loops** *PHYSICAL REVIEW D*

-
- Brodsky, S. J., Wu, X.
2012; 85 (3)
- **Puzzles in Hadronic Physics and Novel Quantum Chromodynamics Phenomenology** *ANNUAL REVIEW OF NUCLEAR AND PARTICLE SCIENCE, VOL 62*
Brodsky, S. J., de Teramond, G., Karliner, M.
2012; 62: 1-35
 - **Meson transition form factors in light-front holographic QCD** *PHYSICAL REVIEW D*
Brodsky, S. J., Cao, F., de Teramond, G. F.
2011; 84 (7)
 - **Evolved QCD predictions for the meson-photon transition form factors** *PHYSICAL REVIEW D*
Brodsky, S. J., Cao, F., de Teramond, G. F.
2011; 84 (3)
 - **Isospin splittings of doubly heavy baryons** *PHYSICS LETTERS B*
Brodsky, S. J., Guo, F., Hanhart, C., Meissner, U.
2011; 698 (3): 251-255
 - **Direct Probes of Linearly Polarized Gluons inside Unpolarized Hadrons** *PHYSICAL REVIEW LETTERS*
Boer, D., Brodsky, S. J., Mulders, P. J., Pisano, C.
2011; 106 (13)
 - **The \hbar expansion in quantum field theory** *PHYSICAL REVIEW D*
Brodsky, S. J., Hoyer, P.
2011; 83 (4)
 - **Electron in a Transverse Harmonic Cavity** *PHYSICAL REVIEW LETTERS*
Honkanen, H., Maris, P., Vary, J. P., Brodsky, S. J.
2011; 106 (6)
 - **Condensates in quantum chromodynamics and the cosmological constant** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Brodsky, S. J., Shrock, R.
2011; 108 (1): 45-50
 - **QCD AND LIGHT-FRONT HOLOGRAPHY** *ACTA PHYSICA POLONICA B*
Brodsky, S. J., de Teramond, G. F.
2010; 41 (12): 2605-2643
 - **AdS/QCD, LIGHT-FRONT HOLOGRAPHY, AND THE NONPERTURBATIVE RUNNING COUPLING** *INTERNATIONAL JOURNAL OF MODERN PHYSICS A*
Brodsky, S. J., De Teramond, G., Deur, A.
2010; 25 (27-28): 5009-5024
 - **Direct hadron production in hadronic collisions** *15th High Energy Physics International Conference on Quantum Chromodynamics*
Arleo, F., Brodsky, S. J., Hwang, D. S., Sickles, A. M.
ELSEVIER SCIENCE BV.2010: 81-84
 - **AdS/QCD and light front holography: A new approximation to QCD** *CHINESE PHYSICS C*
Brodsky, S. J., de Teramond, G. F.
2010; 34 (9): 1229-1235
 - **New perspectives on the quark condensate** *PHYSICAL REVIEW C*
Brodsky, S. J., Roberts, C. D., Shrock, R., Tandy, P. C.
2010; 82 (2)
 - **Higher-Twist Dynamics in Large Transverse Momentum Hadron Production** *PHYSICAL REVIEW LETTERS*
Arleo, F., Brodsky, S. J., Hwang, D. S., Sickles, A. M.
2010; 105 (6)

- **Ab-initio Hamiltonian approach to light nuclei and to quantum field theory** *54th Annual Nuclear Physical Symposium*
Vary, J. P., Honkanen, H., Li, J., Maris, P., Shirokov, A. M., BRODSKY, S. J., Harindranath, A., de Teramond, G. F., Ng, E. G., Yang, C., Sosonkina, M.
INDIAN ACAD SCIENCES.2010: 39–49
- **Nonperturbative QCD coupling and its beta function from light-front holography** *PHYSICAL REVIEW D*
Brodsky, S. J., de Teramond, G. F., Deur, A.
2010; 81 (9)
- **Phases of augmented hadronic light-front wave functions** *PHYSICS LETTERS B*
Brodsky, S. J., Pasquini, B., Xiao, B., Yuan, F.
2010; 687 (4-5): 327-330
- **Hamiltonian light-front field theory in a basis function approach** *PHYSICAL REVIEW C*
Vary, J. P., Honkanen, H., Li, J., Maris, P., BRODSKY, S. J., Harindranath, A., de Teramond, G. F., Sternberg, P., Ng, E. G., Yang, C.
2010; 81 (3)
- **Heavy-quarkonium production in high energy proton-proton collisions at RHIC** *PHYSICAL REVIEW D*
Brodsky, S. J., Lansberg, J.
2010; 81 (5)
- **Timelike virtual compton scattering from electron-positron radiative annihilation** *PHYSICAL REVIEW D*
Afanasev, A., Brodsky, S. J., Carlson, C. E., Mukherjee, A.
2010; 81 (3)
- **Dynamic versus Static Hadronic Structure Functions** *NUCLEAR PHYSICS A*
Brodsky, S. J.
2009; 827 (1-4): 327C-332C
- **Production of the Smallest QED Atom: True Muonium ($\mu^+\mu^-$)** *PHYSICAL REVIEW LETTERS*
Brodsky, S. J., Lebed, R. F.
2009; 102 (21)
- **Production of the smallest QED atom: true microonium ($\mu^+\mu^-$).** *Physical review letters*
Brodsky, S. J., Lebed, R. F.
2009; 102 (21): 213401-?
- **Light-Front Holography: A First Approximation to QCD** *PHYSICAL REVIEW LETTERS*
de Teramond, G. F., Brodsky, S. J.
2009; 102 (8)
- **Local two-photon couplings and the $J=0$ fixed pole in real and virtual Compton scattering** *PHYSICAL REVIEW D*
Brodsky, S. J., Llanes-Estrada, F. J., Szczepaniak, A. P.
2009; 79 (3)
- **Higgs hadroproduction at large Feynman x** *NUCLEAR PHYSICS B*
Brodsky, S. J., Goldhaber, A. S., Kopeliovich, B. Z., Schmitdt, I.
2009; 807 (1-2): 334-347
- **Light-Front Holography and Novel Effects in QCD** *13th Mexican Workshop on Particles and Fields*
Brodsky, S. J., de Teramond, G. F.
AMER INST PHYSICS.2009: 311–326
- **AdS/QCD and its Holographic Light-Front Partonic Representation** *DIFFRACTION 2008*
de Teramond, G. F., Brodsky, S. J.
2009; 1105: 335-?
- **Dynamic versus Static Structure Functions and Novel Diffractive Effects in QCD** *International Workshop on Diffraction in High Energy Physics*
Brodsky, S. J.
AMER INST PHYSICS.2009: 315–322

- **The baryon anomaly: Evidence for color transparency and direct hadron production at RHIC** *PHYSICS LETTERS B*
Brodsky, S. J., Sickles, A.
2008; 668 (2): 111-115
- **Maximum wavelength of confined quarks and gluons and properties of quantum chromodynamics** *PHYSICS LETTERS B*
Brodsky, S. J., Shrock, R.
2008; 666 (1): 95-99
- **Light-front dynamics and AdS/QCD correspondence: Gravitational form factors of composite hadrons** *PHYSICAL REVIEW D*
Brodsky, S. J., de Teramond, G. F.
2008; 78 (2)
- **Light-front dynamics and AdS/QCD correspondence: The pion form factor in the space- and time-like regions** *PHYSICAL REVIEW D*
Brodsky, S. J., de Teramond, G. F.
2008; 77 (5)
- **Light-Front Holography and Hadronization at the Amplitude Level** *SIXTH INTERNATIONAL CONFERENCE ON PERSPECTIVES IN HADRONIC PHYSICS*
Brodsky, S. J., de Teramond, G. F., Shrock, R.
2008; 1056: 3-14
- **Effect of orbital angular momentum on valence-quark helicity distributions** *PHYSICAL REVIEW LETTERS*
Avakian, H., Brodsky, S. J., Deur, A., Yuan, F.
2007; 99 (8)
- **Hadron spectroscopy and structure from AdS/CFT** *EUROPEAN PHYSICAL JOURNAL A*
Brodsky, S. J.
2007; 31 (4): 638-644
- **The conformal template and new perspectives for quantum chromodynamics** *PROGRESS OF THEORETICAL PHYSICS SUPPLEMENT*
Brodsky, S. J.
2007; 76-94
- **Hadron optics in three-dimensional invariant coordinate space from deeply virtual Compton scattering** *PHYSICAL REVIEW D*
BRODSKY, S. J., Chakrabarti, D., Harindranath, A., Mukherjee, A., Vary, J. P.
2007; 75 (1)
- **Evidence for the absence of gluon orbital angular momentum in the nucleon** *PHYSICS LETTERS B*
Brodsky, S. J., Gardner, S.
2006; 643 (1): 22-28
- **Single transverse-spin asymmetries at large x** *PHYSICAL REVIEW D*
Brodsky, S. J., Yuan, F.
2006; 74 (9)
- **Advances in light-front quantization and new perspectives for QCD from AdS/CFT** *NUCLEAR PHYSICS B-PROCEEDINGS SUPPLEMENTS*
BRODSKY, S. J., de Teramond, G. F.
2006; 161: 34-43
- **Hadron optics: Diffraction patterns in deeply virtual Compton scattering** *PHYSICS LETTERS B*
BRODSKY, S. J., Chakrabarti, D., Harindranath, A., Mukherjee, A., Vary, J. P.
2006; 641 (6): 440-446
- **Form factors of the gauge-invariant three-gluon vertex** *PHYSICAL REVIEW D*
Binger, M., Brodsky, S. J.
2006; 74 (5)
- **Diffraction Higgs production from intrinsic heavy flavors in the proton** *PHYSICAL REVIEW D*
Brodsky, S. J., Kopeliovich, B., Schmidt, I., Soffer, J.
2006; 73 (11)

- **Scaling properties of high (PT) inclusive hadron production** *PHYSICS LETTERS B*
BRODSKY, S. J., Pirner, H. J., Raufeisen, J.
2006; 637 (1-2): 58-63
- **Renormalization scale-fixing for complex scattering amplitudes** *EUROPEAN PHYSICAL JOURNAL C*
Brodsky, S. J., Llanes-Estrada, F. J.
2006; 46 (3): 751-758
- **Hadronic spectra and light-front wave functions in holographic QCD** *PHYSICAL REVIEW LETTERS*
Brodsky, S. J., de Teramond, G. F.
2006; 96 (20)
- **Two-boson truncation of Pauli-Villars-regulated Yukawa theory** *ANNALS OF PHYSICS*
BRODSKY, S. J., Hiller, J. R., McCartor, G.
2006; 321 (5): 1240-1264
- **Exclusive two-photon processes in QCD** *ACTA PHYSICA POLONICA B*
Brodsky, S. J.
2006; 37 (3): 905-918
- **Photon-photon collisions - Past and future** *ACTA PHYSICA POLONICA B*
Brodsky, S. J.
2006; 37 (3): 619-632
- **Applications of AdS/CFT duality to QCD** *INTERNATIONAL JOURNAL OF MODERN PHYSICS A*
BRODSKY, S. J., de Teramond, G. F.
2006; 21 (4): 762-768
- **Discrete symmetries on the light front and a general relation connecting the nucleon electric dipole and anomalous magnetic moments** *PHYSICAL REVIEW D*
BRODSKY, S. J., Gardner, S., Hwang, D. S.
2006; 73 (3)
- **Hadron spectroscopy and wavefunctions in QCD and the AdS/CIFT correspondence** *HADRON SPECTROSCOPY*
BRODSKY, S. J., de Teramond, G. F.
2006; 814: 108-?
- **Two-photon exchange contribution to elastic electron-nucleon scattering at large momentum transfer** *PHYSICAL REVIEW D*
Afanasev, A. V., Brodsky, S. J., Carlson, C. E., Chen, Y. C., Vanderhaeghen, M.
2005; 72 (1)
- **Finite-temperature field theory on the light front** *FEW-BODY SYSTEMS*
Raufeisen, J., Brodsky, S. J.
2005; 36 (1-4): 225-230
- **New results in light-front phenomenology** *FEW-BODY SYSTEMS*
Brodsky, S. J.
2005; 36 (1-4): 35-52
- **Hadronic spectrum of a holographic dual of QCD** *PHYSICAL REVIEW LETTERS*
de Teramond, G. F., BRODSKY, S. J.
2005; 94 (20)
- **Hard diffraction from parton rescattering in QCD** *PHYSICAL REVIEW D*
Brodsky, S. J., Enberg, R., Hoyer, P., Ingelman, G.
2005; 71 (7)
- **Novel aspects of QCD in lepton production** *EUROPEAN PHYSICAL JOURNAL A*
Brodsky, S. J.
2005; 24: 129-135

- **Constraints on proton structure from precision atomic-physics measurements** *PHYSICAL REVIEW LETTERS*
Brodsky, S. J., Carlson, C. E., Hiller, J. R., Hwang, D. S.
2005; 94 (2)
- **Baryonic states in QCD from gauge/string duality at large N-C** *LARGE NC QCD 2004, PROCEEDINGS*
de Teramond, G. F., Brodsky, S. J.
2005: 290-301
- **A nonperturbative calculation of the electron's magnetic moment** *NUCLEAR PHYSICS B*
BRODSKY, S. J., Franke, V. A., Hiller, J. R., McCartor, D., Paston, S. A., Prokhvatilov, E.
2004; 703 (1-2): 333-362
- **Nuclear antishadowing in neutrino deep inelastic scattering** *PHYSICAL REVIEW D*
Brodsky, S. J., Schmidt, I., Yang, J. J.
2004; 70 (11)
- **Statistical physics and light-front quantization** *PHYSICAL REVIEW D*
Raufeisen, J., Brodsky, S. J.
2004; 70 (8)
- **Partonic calculation of the two-photon exchange contribution to elastic electron-proton scattering at large momentum transfer** *PHYSICAL REVIEW LETTERS*
Chen, Y. C., Afanasev, A., BRODSKY, S. J., Carlson, C. E., Vanderhaeghen, M.
2004; 93 (12)
- **Physical renormalization schemes and grand unification** *PHYSICAL REVIEW D*
Binger, M., Brodsky, S. J.
2004; 69 (9)
- **Covariant structure of light-front wave functions and the behavior of hadronic form factors** *PHYSICAL REVIEW D*
Brodsky, S. J., Hiller, J. R., Hwang, D. S., Karmanov, V. A.
2004; 69 (7)
- **Light-front hadron dynamics and AdS/CFT correspondence** *PHYSICS LETTERS B*
Brodsky, S. J., de Teramond, G. R.
2004; 582 (3-4): 211-221
- **Single-spin polarization effects and the determination of timelike proton form factors** *PHYSICAL REVIEW D*
Brodsky, S. J., Carlson, C. E., Hiller, J. R., Hwang, D. S.
2004; 69 (5)
- **Conformal aspects of QCD** *INTERNATIONAL CONFERENCE ON COLOR CONFINEMENT AND HADRONS IN QUANTUM CHROMODYNAMICS*
Brodsky, S. J.
2004: 164-175
- **Hard photodisintegration of a proton pair in He-3** *PHYSICS LETTERS B*
BRODSKY, S. J., Frankfurt, L., Gilman, R., Hiller, J. R., MILLER, G. A., Piasetzky, E., Sargsian, M., Strikman, M.
2004; 578 (1-2): 69-77
- **Conformal symmetry as a template for QCD** *CONTINUOUS ADVANCES IN QCD 2004, PROCEEDINGS*
Brodsky, S. J.
2004: 30-43
- **Hunting for glueballs in electron-positron annihilation** *PHYSICAL REVIEW LETTERS*
BRODSKY, S. J., Goldhaber, A. S., Lee, J.
2003; 91 (11)
- **Physics opportunities at a photon-photon collider** *INTERNATIONAL JOURNAL OF MODERN PHYSICS A*
Brodsky, S. J.
2003; 18 (16): 2871-2892

- **The mass renormalization of nonperturbative light-front Hamiltonian theory: an illustration using truncated, Pauli-Villars-regulated Yukawa interactions** *ANNALS OF PHYSICS*
BRODSKY, S. J., Hiller, J. R., McCartor, G.
2003; 305 (2): 266-285
- **Hadron spin dynamics** *INTERNATIONAL JOURNAL OF MODERN PHYSICS A*
Brodsky, S. J.
2003; 18 (8): 1531-1550
- **Final-state interactions and single-spin asymmetries in semi-inclusive deep inelastic scattering** *INTERNATIONAL JOURNAL OF MODERN PHYSICS A*
Brodsky, S. J., Hwang, D. S., Schmidt, I.
2003; 18 (8): 1327-1334
- **Behavior of the effective QCD coupling $\alpha(\tau)$ (s) at low scales** *PHYSICAL REVIEW D*
BRODSKY, S. J., Menke, S., MERINO, C., Rathsman, J.
2003; 67 (5)
- **Initial-state interactions in the unpolarized Drell-Yan process** *PHYSICAL REVIEW D*
Boer, D., BRODSKY, S. J., Hwang, D. S.
2003; 67 (5)
- **Single hadronic-spin asymmetries in weak interaction processes** *PHYSICS LETTERS B*
BRODSKY, S. J., Hwang, D. S., Schmidt, I.
2003; 553 (3-4): 223-228
- **Initial-state interactions and single-spin asymmetries in Drell-Yan processes** *NUCLEAR PHYSICS B*
Brodsky, S. J., Hwang, D. S., Schmidt, I.
2002; 642 (1-2): 344-356
- **Light-front formulation of the standard model** *PHYSICAL REVIEW D*
Srivastava, P. P., Brodsky, S. J.
2002; 66 (4)
- **Structure functions are not parton probabilities** *PHYSICAL REVIEW D*
BRODSKY, S. J., Hoyer, P., Marchal, N., Peigne, S., Sannino, F.
2002; 65 (11)
- **Physics at the light-front** *NUCLEAR PHYSICS B-PROCEEDINGS SUPPLEMENTS*
Brodsky, S. J.
2002; 108: 327-339
- **Final-state interactions and single-spin asymmetries in semi-inclusive deep inelastic scattering** *PHYSICS LETTERS B*
Brodsky, S. J., Hwang, D. S., Schmidt, I.
2002; 530 (1-4): 99-107
- **Exact solutions to Pauli-Villars-regulated field theories** *ANNALS OF PHYSICS*
BRODSKY, S. J., Hiller, J. R., McCartor, G.
2002; 296 (2): 406-424
- **Evading the CKM hierarchy: Intrinsic charm in B decays** *PHYSICAL REVIEW D*
Brodsky, S. J., Gardner, S.
2002; 65 (5)
- **High-energy asymptotics of photon-photon collisions in QCD** *International Conference on Structure and Interactions of the Photon/14th International Workshop on Photon-Photon Collisions*
BRODSKY, S. J., Fadin, V. S., Kim, V. T., Lipatov, L. N., Pivovarov, G. B.
WORLD SCIENTIFIC PUBL CO PTE LTD.2002: 178-181
- **High-energy QCD asymptotic behavior of photon-photon collisions** *JETP LETTERS*
BRODSKY, S. J., Fadin, V. S., Kim, V. T., Lipatov, L. N., Pivovarov, G. B.

2002; 76 (5): 249-252

● **The Heisenberg matrix formulation of quantum field theory** *FORTSCHRITTE DER PHYSIK-PROGRESS OF PHYSICS*

Brodsky, S. J.

2002; 50 (5-7): 503-511

● **QCD phenomenology and light-front wavefunctions** *ACTA PHYSICA POLONICA B*

Brodsky, S. J.

2001; 32 (12): 4013-4067

● **Application of Pauli-Villars regularization and discretized light-cone quantization to a single-fermion truncation of Yukawa theory** *PHYSICAL REVIEW D*

BRODSKY, S. J., Hiller, J. R., McCartor, G.

2001; 64 (11)

● **Perturbative QCD and factorization of coherent pion photoproduction on the deuteron** *PHYSICAL REVIEW C*

BRODSKY, S. J., Hiller, J. R., Ji, C. R., MILLER, G. A.

2001; 64 (5)

● **Light-front-quantized QCD in the light-cone gauge: The doubly transverse gauge propagator** *PHYSICAL REVIEW D*

Srivastava, P. P., Brodsky, S. J.

2001; 64 (4)

● **Disentangling running coupling and conformal effects in QCD** *PHYSICAL REVIEW D*

BRODSKY, S. J., Gardi, E., Grunberg, G., Rathsmann, J.

2001; 63 (9)

● **Jet asymmetry in high energy diffractive production** *NUCLEAR PHYSICS B-PROCEEDINGS SUPPLEMENTS*

MERINO, C., BRODSKY, S. J., Rathsmann, J.

2001; 96: 141-145

● **Light-cone wavefunction representation of deeply virtual Compton scattering** *NUCLEAR PHYSICS B*

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

2001; 596 (1-2): 99-124

● **Photoproduction of charm near threshold** *PHYSICS LETTERS B*

BRODSKY, S. J., Chudakov, E., Hoyer, P., Laget, J. M.

2001; 498 (1-2): 23-28

● **Light-cone representation of the spin and orbital angular momentum of relativistic composite systems** *NUCLEAR PHYSICS B*

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

2001; 593 (1-2): 311-335

● **Two-photon exclusive processes in QCD** *PHOTON 2000*

Brodsky, S. J.

2001; 571: 315-325

● **Jet asymmetry and the detection of Odderon exchange in DIS** *NUCLEAR PHYSICS B-PROCEEDINGS SUPPLEMENTS*

MERINO, C., BRODSKY, S. J., Rathsmann, J.

2000; 86: 183-188

● **Perturbative QCD relations inspired by hypothetical tau leptons** *NUCLEAR PHYSICS B-PROCEEDINGS SUPPLEMENTS*

Pelaez, J. R., BRODSKY, S. J., MERINO, C., Toumbas, N.

2000; 86: 216-219

● **Coherent contributions of nuclear mesons to electroproduction and the HERMES effect** *PHYSICS LETTERS B*

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

2000; 481 (2-4): 245-252

● **Light-front-quantized QCD in a covariant gauge** *PHYSICAL REVIEW D*

Srivastava, P. P., Brodsky, S. J.

2000; 61 (2)

- **Measuring the QCD Gell-Mann-Low Psi function** *PHYSICAL REVIEW D*
BRODSKY, S. J., MERINO, C., Pelaez, J. R.
1999; 60 (11)
- **Two-loop scale dependence of the static QCD potential including quark masses** *PHYSICAL REVIEW D*
Brodsky, S. J., Melles, M., Rathsman, J.
1999; 60 (9)
- **Application of Pauli-Villars regularization and discretized light-cone quantization to a (3+1)-dimensional model** *PHYSICAL REVIEW D*
BRODSKY, S. J., Hiller, J. R., McCartor, G.
1999; 60 (5)
- **Odderon-Pomeron interference** *PHYSICS LETTERS B*
BRODSKY, S. J., Rathsman, J., MERINO, C.
1999; 461 (1-2): 114-122
- **The QCD Pomeron with optimal renormalization** *JETP LETTERS*
BRODSKY, S. J., Fadin, V. S., Kim, V. T., Lipatov, L. N., Pivovarov, G. B.
1999; 70 (3): 155-160
- **Gluon virtuality and heavy sea-quark contributions to the spin-dependent g1 structure function** *PHYSICAL REVIEW D*
Bass, S. D., Brodsky, S. J., Schmidt, I.
1999; 60 (3)
- **Testing QCD with hypothetical tau leptons** *PHYSICAL REVIEW D*
BRODSKY, S. J., Pelaez, J. R., Toumbas, N.
1999; 60 (3)
- **Exact light-cone wavefunction representation of matrix elements of electroweak currents** *NUCLEAR PHYSICS B*
BRODSKY, S. J., Hwang, D. S.
1999; 543 (1-2): 239-252
- **Semi-exclusive processes: new probes of hadron structure** *PHYSICS LETTERS B*
BRODSKY, S. J., Diehl, M., Hoyer, P., Peigne, S.
1999; 449 (3-4): 306-312
- **Nonperturbative renormalization and the electron's anomalous moment in large-alpha QED** *PHYSICAL REVIEW D*
Hiller, J. R., BRODSKY, S. J.
1999; 59 (1)
- **Analytic extension of the modified minimal subtraction renormalization scheme** *PHYSICAL REVIEW D*
BRODSKY, S. J., Gill, M. S., Melles, M., Rathsman, J.
1998; 58 (11)
- **The spin structure of a polarized photon** *PHYSICS LETTERS B*
Bass, S. D., Brodsky, S. J., Schmidt, I.
1998; 437 (3-4): 417-424
- **Pauli-Villars regulator as a nonperturbative ultraviolet regularization scheme in discretized light-cone quantization** *PHYSICAL REVIEW D*
BRODSKY, S. J., Hiller, J. R., McCartor, G.
1998; 58 (2)
- **Polarization asymmetry zero in heavy quark photoproduction and leptonproduction** *PHYSICS LETTERS B*
BRODSKY, S. J., Schmidt, I.
1998; 423 (1-2): 145-150
- **Aspects of SU(N-c) gauge theories in the limit of small number of colors** *PHYSICS LETTERS B*
Brodsky, S. J., Huet, P.

1998; 417 (1-2): 145-153

- **Optimal renormalization scale and scheme for exclusive processes** *PHYSICAL REVIEW D*
BRODSKY, S. J., Ji, C. R., Pang, A., Robertson, D. G.
1998; 57 (1): 245-252
- **Pade approximants, optimal renormalization scales, and momentum flow in Feynman diagrams** *PHYSICAL REVIEW D*
BRODSKY, S. J., Ellis, J., Gardi, E., Karliner, M., Samuel, M. A.
1997; 56 (11): 6980-6992
- **Virtual photon scattering at high energies as a probe of the short distance Pomeron** *PHYSICAL REVIEW D*
BRODSKY, S. J., Hautmann, F., Soper, D. E.
1997; 56 (11): 6957-6979
- **Is J/Psi-nucleon scattering dominated by the gluonic van der Waals interaction?** *PHYSICS LETTERS B*
BRODSKY, S. J., MILLER, G. A.
1997; 412 (1-2): 125-130
- **Intrinsic charm of vector mesons: A possible solution of the "rho pi puzzle"** *PHYSICAL REVIEW LETTERS*
BRODSKY, S. J., Karliner, M.
1997; 78 (25): 4682-4685
- **Rapidity gaps in perturbative QCD** *PHYSICAL REVIEW D*
BRODSKY, S. J., Hoyer, P., Magnea, L.
1997; 55 (9): 5585-5597
- **Probing the QCD pomeron in e(+)e(-) collisions** *PHYSICAL REVIEW LETTERS*
BRODSKY, S. J., Hautmann, F., Soper, D. E.
1997; 78 (5): 803-806
- **Asymmetric quark/anti-quark hadronization in e(+)e(-) annihilation** *PHYSICS LETTERS B*
BRODSKY, S. J., Ma, B. Q.
1997; 392 (3-4): 452-456
- **BFKL scattering at LEP II and a next e(+)e(-) collider** *5th International Workshop on Deep Inelastic Scattering and QCD (DIS97)*
BRODSKY, S. J., Hautmann, F., Soper, D. E.
AIP PRESS.1997: 503-8
- **Charmed hadron asymmetries in the intrinsic charm coalescence model** *NUCLEAR PHYSICS B*
Vogt, R., BRODSKY, S. J.
1996; 478 (1-2): 311-332
- **The quark-antiquark asymmetry of the nucleon sea** *PHYSICS LETTERS B*
BRODSKY, S. J., Ma, B. Q.
1996; 381 (1-3): 317-324
- **The generalized Crewther relation in QCD and its experimental consequences** *PHYSICS LETTERS B*
BRODSKY, S. J., GABADADZE, G. T., Kataev, A. L., Lu, H. J.
1996; 372 (1-2): 133-140
- **SYSTEMATICS OF HEAVY-QUARK PRODUCTION IN HIGH-ENERGY ELECTRON-PROTON COLLISIONS** *PHYSICAL REVIEW D*
BRODSKY, S. J., Tang, W. K., Hoyer, P.
1995; 52 (11): 6285-6290
- **W ANOMALOUS MOMENTS AND THE POLARIZATION ASYMMETRY ZERO IN GAMMA-E-[W-NU** *PHYSICAL REVIEW D*
BRODSKY, S. J., RIZZO, R. G., Schmidt, I.
1995; 52 (9): 4929-4935
- **ANGULAR-DISTRIBUTIONS OF MASSIVE QUARKS AND LEPTONS CLOSE TO THRESHOLD** *PHYSICS LETTERS B*
BRODSKY, S. J., Hoang, A. H., Kuhn, J. H., Teubner, T.

1995; 359 (3-4): 355-361

- **Atomic alchemy: Weak decays of muonic and pionic atoms into other atoms** *PHYSICAL REVIEW D*
Greub, C., Wyler, D., BRODSKY, S. J., MUNGER, C. T.
1995; 52 (7): 4028-4037
- **CLASSICAL PHOTOABSORPTION SUM-RULES** *PHYSICS LETTERS B*
BRODSKY, S. J., Schmidt, I.
1995; 351 (1-3): 344-348
- **QCD CONSTRAINTS ON THE SHAPE OF POLARIZED QUARK AND GLUON DISTRIBUTIONS** *NUCLEAR PHYSICS B*
BRODSKY, S. J., Burkardt, M., Schmidt, I.
1995; 441 (1-2): 197-214
- **INTRINSIC CHARM CONTRIBUTION TO DOUBLE QUARKONIUM HADROPRODUCTION** *PHYSICS LETTERS B*
Vogt, R., BRODSKY, S. J.
1995; 349 (4): 569-575
- **HADROPRODUCTION AND POLARIZATION OF CHARMONIUM** *PHYSICAL REVIEW D*
Vantinen, M., Hoyer, P., BRODSKY, S. J., Tang, W. K.
1995; 51 (7): 3332-3339
- **COMMENSURATE SCALE RELATIONS IN QUANTUM CHROMODYNAMICS** *PHYSICAL REVIEW D*
BRODSKY, S. J., Lu, H. J.
1995; 51 (7): 3652-3668
- **QCD AND INTRINSIC HEAVY-QUARK PREDICTIONS FOR LEADING CHARM AND BEAUTY HADROPRODUCTION** *NUCLEAR PHYSICS B*
Vogt, R., BRODSKY, S. J.
1995; 438 (1-2): 261-277
- **COMMENSURATE SCALE RELATIONS IN QUANTUM CHROMODYNAMICS** *NUCLEAR PHYSICS B*
Lu, H. J., BRODSKY, S. J.
1995: 309-311
- **Higher twist effects in the Drell-Yan process** *11th International Symposium on High Energy Spin Physics/8th International Symposium on Polarization Phenomena in Nuclear Physics*
Brandenburg, A., BRODSKY, S. J., Khoze, V. V., Muller, D.
AIP PRESS.1995: 456-460
- **DIFFRACTIVE LEPTOPRODUCTION OF VECTOR-MESONS IN QCD** *PHYSICAL REVIEW D*
BRODSKY, S. J., Frankfurt, L., Gunion, J. F., Mueller, A. H., Strikman, M.
1994; 50 (5): 3134-3144
- **ANGULAR-DISTRIBUTIONS IN THE DRELL-YAN PROCESS - A CLOSER LOOK AT HIGHER TWIST EFFECTS** *PHYSICAL REVIEW LETTERS*
Brandenburg, A., BRODSKY, S. J., Khoze, V. V., Muller, D.
1994; 73 (7): 939-942
- **PRODUCTION OF RELATIVISTIC ANTIHYDROGEN ATOMS BY PAIR PRODUCTION WITH POSITRON CAPTURE** *PHYSICAL REVIEW D*
MUNGER, C. T., BRODSKY, S. J., Schmidt, I.
1994; 49 (7): 3228-3235
- **NEW PERSPECTIVES IN QUANTUM CHROMODYNAMICS** *CCAST (World Laboratory) Symposium/Workshop: Particle Physics at the Fermi Scale*
BRODSKY, S. J.
GORDON AND BREACH SCIENCE PUBL.1994: 271-374
- **THE REGGEON TRAJECTORY IN EXCLUSIVE AND INCLUSIVE LARGE MOMENTUM-TRANSFER REACTIONS** *PHYSICS LETTERS B*
BRODSKY, S. J., Tang, W. K., Thorn, C. B.
1993; 318 (1): 203-211
- **RELATING PHYSICAL OBSERVABLES IN QCD USING THE EXTENDED RENORMALIZATION-GROUP METHOD** *PHYSICAL REVIEW D*
Lu, H. J., BRODSKY, S. J.

1993; 48 (7): 3310-3318

- **QED-INDUCED RAPIDITY-GAP EVENTS AT THE Z PEAK** *PHYSICS LETTERS B*
Lu, H. J., BRODSKY, S. J., Khoze, V. A.
1993; 312 (1-2): 215-219
- **A BOUND ON THE ENERGY-LOSS OF PARTONS IN NUCLEI** *PHYSICS LETTERS B*
BRODSKY, S. J., Hoyer, P.
1993; 298 (1-2): 165-170
- **PRODUCTION OF RELATIVISTIC ANTIHYDROGEN ATOMS BY PAIR PRODUCTION WITH POSITRON CAPTURE AND MEASUREMENT OF THE LAMB SHIFT** *ANTIHYDROGEN WORKSHOP*
MUNGER, C. T., BRODSKY, S. J., Schmidt, I.
SPRINGER.1993: 175-80
- **SYSTEMATICS OF CHARM PRODUCTION IN HADRONIC COLLISIONS** *NUCLEAR PHYSICS B*
Vogt, R., BRODSKY, S. J., Hoyer, P.
1992; 383 (3): 643-684
- **UNIVERSAL PROPERTIES OF THE ELECTROMAGNETIC-INTERACTIONS OF SPIN-ONE SYSTEMS** *PHYSICAL REVIEW D*
BRODSKY, S. J., Hiller, J. R.
1992; 46 (5): 2141-2149
- **SPACE-TIME STRUCTURE OF DEEP-INELASTIC LEPTON-HADRON SCATTERING** *PHYSICAL REVIEW D*
DELDUCA, V., BRODSKY, S. J., Hoyer, P.
1992; 46 (3): 931-943
- **RAPIDITY-GAP EVENTS IN E+E- ANNIHILATION** *PHYSICS LETTERS B*
Bjorken, J. D., BRODSKY, S. J., Lu, H. J.
1992; 286 (1-2): 153-159
- **NEW QCD PRODUCTION MECHANISMS FOR HARD PROCESSES AT LARGE-X** *NUCLEAR PHYSICS B*
BRODSKY, S. J., Hoyer, P., Mueller, A. H., Tang, W. K.
1992; 369 (3): 519-542
- **NOVEL TESTS OF QUANTUM CHROMODYNAMICS IN ELECTROPRODUCTION** *NUCLEAR PHYSICS A*
BRODSKY, S. J., Hoyer, P.
1991; 532 (1-2): C79-C102
- **SYSTEMATICS OF J/PSI PRODUCTION IN NUCLEAR COLLISIONS** *NUCLEAR PHYSICS B*
Vogt, R., BRODSKY, S. J., Hoyer, P.
1991; 360 (1): 67-96
- **PERTURBATIVE QCD EFFECTS IN HEAVY MESON DECAYS** *NUCLEAR PHYSICS A*
Szczepaniak, A., Henley, E. M., BRODSKY, S. J.
1991; 527: C757-C759
- **SHORT-RANGE STRUCTURE OF HADRON AND NUCLEAR WAVE-FUNCTIONS AT HIGH-X** *TOPICAL CONF ON PARTICLE PRODUCTION NEAR THRESHOLD*
Hoyer, P., BRODSKY, S. J.
AIP PRESS.1991: 238-255
- **BOUND-VALENCE-QUARK CONTRIBUTIONS TO HADRON STRUCTURE FUNCTIONS** *PHYSICAL REVIEW D*
BRODSKY, S. J., Schmidt, I.
1991; 43 (1): 179-184
- **PERTURBATIVE QCD EFFECTS IN HEAVY MESON DECAYS** *PHYSICS LETTERS B*
Szczepaniak, A., Henley, E. M., BRODSKY, S. J.
1990; 243 (3): 287-292
- **SHADOWING AND ANTISHADOWING OF NUCLEAR-STRUCTURE FUNCTIONS** *PHYSICAL REVIEW LETTERS*

-
- BRODSKY, S. J., Lu, H. J.
1990; 64 (12): 1342-1345
- **NUCLEAR-BOUND QUARKONIUM** *PHYSICAL REVIEW LETTERS*
BRODSKY, S. J., Schmidt, I., DETERAMOND, G. F.
1990; 64 (9): 1011-1014
 - **POLARIZED AND UNPOLARIZED INTRINSIC GLUON DISTRIBUTIONS** *PHYSICS LETTERS B*
BRODSKY, S. J., Schmidt, I.
1990; 234 (1-2): 144-150
 - **NUCLEUS AS A COLOR FILTER IN QCD - HADRON-PRODUCTION IN NUCLEI** *PHYSICAL REVIEW LETTERS*
BRODSKY, S. J., Hoyer, P.
1989; 63 (15): 1566-1569
 - **EFFECTS OF INITIAL-STATE QCD INTERACTIONS IN THE DRELL-YAN PROCESS** *PHYSICAL REVIEW D*
Bodwin, G. T., BRODSKY, S. J., Lepage, G. P.
1989; 39 (11): 3287-3296
 - **USING NUCLEI TO PROBE HADRONIZATION IN QCD** *PHYSICS LETTERS B*
BRODSKY, S. J., Mueller, A. H.
1988; 206 (4): 685-690
 - **CHIRAL SYMMETRY AND THE SPIN OF THE PROTON** *PHYSICS LETTERS B*
BRODSKY, S. J., Ellis, J., Karliner, M.
1988; 206 (2): 309-315
 - **SPIN CORRELATIONS, QCD COLOR TRANSPARENCY, AND HEAVY-QUARK THRESHOLDS IN PROTON-PROTON SCATTERING** *PHYSICAL REVIEW LETTERS*
BRODSKY, S. J., DETERAMOND, G. F.
1988; 60 (19): 1924-1927
 - **PHYSICS OF HEAVY-QUARK PRODUCTION IN QUANTUM CHROMODYNAMICS** *PHYSICAL REVIEW D*
BRODSKY, S. J., Gunion, J. F., Soper, D. E.
1987; 36 (9): 2710-2728
 - **EXCLUSIVE CHARMONIUM DECAYS - THE J/PSI(Psi')-JP-PLK-STAR-KBAR PUZZLE** *PHYSICAL REVIEW LETTERS*
BRODSKY, S. J., Lepage, G. P., Tuan, S. F.
1987; 59 (6): 621-623
 - **QUANTUM-CHROMODYNAMIC EVOLUTION OF 6-QUARK STATES** *PHYSICAL REVIEW D*
Ji, C. R., BRODSKY, S. J.
1986; 34 (5): 1460-1473
 - **FACTORIZATION PROPERTY OF THE DEUTERON** *PHYSICAL REVIEW D*
BRODSKY, S. J., Ji, C. R.
1986; 33 (9): 2653-2659
 - **CONFORMAL SYMMETRY AND EXCLUSIVE PROCESSES BEYOND LEADING ORDER** *PHYSICAL REVIEW D*
BRODSKY, S. J., DAMGAARD, P., Frishman, Y., Lepage, G. P.
1986; 33 (7): 1881-1893
 - **QUANTUM-CHROMODYNAMIC EVOLUTION OF THE BARYON SYSTEM** *PHYSICAL REVIEW D*
BRODSKY, S. J., Ji, C. R.
1986; 33 (7): 1951-1960
 - **EVOLUTION OF RELATIVISTIC MULTIQUARK SYSTEMS** *PHYSICAL REVIEW D*
BRODSKY, S. J., Ji, C. R.
1986; 33 (5): 1406-1414

- **ON THE APPLICATION OF CONFORMAL SYMMETRY TO QUANTUM-FIELD THEORY** *PHYSICS LETTERS B*
BRODSKY, S. J., Frishman, Y., Lepage, G. P.
1986; 167 (3): 347-350
- **EXCLUSIVE PRODUCTION OF HIGHER-GENERATION HADRONS AND FORM-FACTOR ZEROS IN QUANTUM CHROMODYNAMICS** *PHYSICAL REVIEW LETTERS*
BRODSKY, S. J., Ji, C. R.
1985; 55 (21): 2257-2260
- **EVOLUTION EQUATION AND RELATIVISTIC BOUND-STATE WAVE-FUNCTIONS FOR SCALAR-FIELD MODELS IN 4 AND 6 DIMENSIONS** *PHYSICAL REVIEW D*
BRODSKY, S. J., Ji, C. R., Sawicki, M.
1985; 32 (6): 1530-1538
- **BARYON WAVE-FUNCTIONS AND NUCLEON DECAY** *NUCLEAR PHYSICS B*
BRODSKY, S. J., Ellis, J., HAGELIN, J. S., Sachrajda, C. T.
1984; 238 (3): 561-581
- **QUANTUM CHROMODYNAMICS IN FEW NUCLEON SYSTEMS** *NUCLEAR PHYSICS A*
BRODSKY, S. J.
1984; 416 (MAR): C3-C24
- **APPLIED CHROMODYNAMICS** *ACTA PHYSICA POLONICA B*
BRODSKY, S. J.
1984; 15 (11): 1059-1098
- **QUANTUM CHROMODYNAMIC EVOLUTION OF MULTIQUARK SYSTEMS** *AIP CONFERENCE PROCEEDINGS*
Ji, C. R., BRODSKY, S. J.
1984: 596-605
- **QUANTUM CHROMODYNAMIC PREDICTIONS FOR THE DEUTERON FORM-FACTOR** *PHYSICAL REVIEW LETTERS*
BRODSKY, S. J., Ji, C. R., Lepage, G. P.
1983; 51 (2): 83-86
- **REDUCED NUCLEAR AMPLITUDES IN QUANTUM CHROMODYNAMICS** *PHYSICAL REVIEW C*
BRODSKY, S. J., Hiller, J. R.
1983; 28 (2): 475-482
- **A UNIFIED APPROACH TO QCD PHENOMENOLOGY** *AIP CONFERENCE PROCEEDINGS*
BRODSKY, S. J.
1983: 146-175
- **ON THE ELIMINATION OF SCALE AMBIGUITIES IN PERTURBATIVE QUANTUM CHROMODYNAMICS** *PHYSICAL REVIEW D*
BRODSKY, S. J., Lepage, G. P., Mackenzie, P. B.
1983; 28 (1): 228-235
- **HEAVY QUARKS IN HADRONIC COLLISIONS** *AIP CONFERENCE PROCEEDINGS*
BRODSKY, S. J., Peterson, C.
1982: 79-99
- **QUANTUM CHROMODYNAMICS AT NUCLEAR DIMENSIONS** *SPRINGER TRACTS IN MODERN PHYSICS*
BRODSKY, S. J.
1982; 100: 81-144
- **INTRINSIC HEAVY-QUARK STATES** *PHYSICAL REVIEW D*
BRODSKY, S. J., Peterson, C., Sakai, N.
1981; 23 (11): 2745-2757
- **DIFFRACTIVE EXCITATION IN QUANTUM CHROMODYNAMICS** *PHYSICAL REVIEW LETTERS*
Bertsch, G., BRODSKY, S. J., Goldhaber, A. S., GUNION, J. G.

1981; 47 (5): 297-300

- **DIRECT COUPLING OF THE PION IN LARGE-PT JET INTERACTIONS** *PHYSICAL REVIEW D*
Berger, E. L., BRODSKY, S. J.
1981; 24 (9): 2428-2432
- **HELICITY SELECTION-RULES AND TESTS OF GLUON SPIN IN EXCLUSIVE QUANTUM-CHROMODYNAMIC PROCESSES** *PHYSICAL REVIEW D*
BRODSKY, S. J., Lepage, G. P.
1981; 24 (11): 2848-2855
- **THE SYNTHESIS OF QUANTUM CHROMODYNAMICS AND NUCLEAR-PHYSICS** *NUCLEAR PHYSICS A*
BRODSKY, S. J., Lepage, G. P.
1981; 353 (1-2): C247-C256
- **LARGE-ANGLE 2-PHOTON EXCLUSIVE CHANNELS IN QUANTUM CHROMODYNAMICS** *PHYSICAL REVIEW D*
BRODSKY, S. J., Lepage, G. P.
1981; 24 (7): 1808-1817
- **WEAK AND ELECTROMAGNETIC FORM-FACTORS OF BARYONS AT LARGE MOMENTUM-TRANSFER** *PHYSICAL REVIEW D*
BRODSKY, S. J., Lepage, G. P., Zaidi, S. A.
1981; 23 (5): 1152-1157
- **INITIAL-STATE INTERACTIONS AND THE DRELL-YAN PROCESS** *PHYSICAL REVIEW LETTERS*
Bodwin, G. T., BRODSKY, S. J., Lepage, G. P.
1981; 47 (25): 1799-1803
- **THE INTRINSIC CHARM OF THE PROTON** *PHYSICS LETTERS B*
BRODSKY, S. J., Hoyer, P., Peterson, C., Sakai, N.
1980; 93 (4): 451-455
- **PERTURBATIVE CONTRIBUTIONS TO QUARK MASSES** *PHYSICAL REVIEW LETTERS*
BRODSKY, S. J., TERAMOND, G. F., SCHMIDT, I. A.
1980; 44 (9): 557-560
- **ANOMALOUS MAGNETIC-MOMENT AND LIMITS ON FERMION SUBSTRUCTURE** *PHYSICAL REVIEW D*
BRODSKY, S. J., Drell, S. D.
1980; 22 (9): 2236-2243
- **EXCLUSIVE PROCESSES IN PERTURBATIVE QUANTUM CHROMODYNAMICS** *PHYSICAL REVIEW D*
Lepage, G. P., BRODSKY, S. J.
1980; 22 (9): 2157-2198
- **HADRONIC WAVE-FUNCTIONS AT SHORT DISTANCES AND THE OPERATOR PRODUCT EXPANSION** *PHYSICS LETTERS B*
BRODSKY, S. J., Frishman, Y., Lepage, G. P., Sachrajda, C.
1980; 91 (2): 239-244
- **EXCLUSIVE PROCESSES IN QUANTUM CHROMODYNAMICS - EVOLUTION EQUATIONS FOR HADRONIC WAVEFUNCTIONS AND THE FORM-FACTORS OF MESONS** *PHYSICS LETTERS B*
Lepage, G. P., BRODSKY, S. J.
1979; 87 (4): 359-365
- **GLUON DISTRIBUTION IN HADRONS** *PHYSICAL REVIEW D*
BRODSKY, S. J., Gunion, J. F.
1979; 19 (3): 1005-1010
- **PRODUCTION OF JETS AND SINGLE PARTICLES AT LARGE TRANSVERSE-MOMENTUM IN PHOTON-PHOTON COLLISIONS** *PHYSICAL REVIEW D*
BRODSKY, S. J., DeGrand, T., Gunion, J., Weis, J.
1979; 19 (5): 1418-1443

- **SPIN EFFECTS IN LARGE-TRANSVERSE-MOMENTUM EXCLUSIVE SCATTERING PROCESSES** *PHYSICAL REVIEW D*
BRODSKY, S. J., Carlson, C. E., Lipkin, H.
1979; 20 (9): 2278-2289
- **QUARK STRUCTURE FUNCTIONS OF MESONS AND THE DRELL-YAN PROCESS** *PHYSICAL REVIEW LETTERS*
Berger, E. L., BRODSKY, S. J.
1979; 42 (15): 940-944
- **HADRON AND PHOTON PRODUCTION AT LARGE TRANSVERSE-MOMENTUM AND THE DYNAMICS OF QCD JETS** *PHYSICA SCRIPTA*
BRODSKY, S. J.
1979; 19 (2): 154-167
- **EXCLUSIVE PROCESSES IN QUANTUM CHROMODYNAMICS - FORM-FACTORS OF BARYONS AT LARGE MOMENTUM-TRANSFER** *PHYSICAL REVIEW LETTERS*
Lepage, G. P., BRODSKY, S. J.
1979; 43 (8): 545-549
- **ARE GLUON JETS OBLATE** *PHYSICS LETTERS B*
BRODSKY, S. J., DeGrand, T. A., Schwitters, R. F.
1978; 79 (3): 255-258
- **HADRONIC FRAGMENTATION AS A PROBE OF UNDERLYING DYNAMICS OF HADRON COLLISIONS** *PHYSICAL REVIEW D*
BRODSKY, S. J., Gunion, J. F.
1978; 17 (3): 848-857
- **DECAY OF UPSILON INTO PHOTONS AND GLUONS** *PHYSICS LETTERS B*
BRODSKY, S. J., DeGrand, T. A., Horgan, R. R., Coyne, D. G.
1978; 73 (2): 203-206
- **PRODUCTION OF LARGE-TRANSVERSE-MOMENTUM JETS IN PHOTON-PHOTON COLLISIONS** *PHYSICAL REVIEW LETTERS*
BRODSKY, S. J., DeGrand, T. A., Gunion, J. F., Weis, J. H.
1978; 41 (10): 672-676
- **PRODUCTION OF REAL PHOTONS AT LARGE TRANSVERSE-MOMENTUM IN PP COLLISIONS** *PHYSICAL REVIEW D*
Ruckl, R., BRODSKY, S. J., Gunion, J. F.
1978; 18 (7): 2469-2483
- **MAGNITUDE OF LARGE-TRANSVERSE-MOMENTUM CROSS-SECTIONS** *PHYSICAL REVIEW D*
BLANKENBECLER, R., BRODSKY, S. J., Gunion, J. F.
1978; 18 (3): 900-926
- **CONSTITUENT TRANSVERSE-MOMENTUM FLUCTUATIONS AND HARD-SCATTERING EXPANSION** *PHYSICAL REVIEW D*
CASWELL, W. E., Horgan, R. R., BRODSKY, S. J.
1978; 18 (7): 2415-2434
- **RETENTION OF QUANTUM NUMBERS BY QUARK AND MULTI-QUARK JETS** *PHYSICAL REVIEW D*
BRODSKY, S. J., Weiss, N.
1977; 16 (7): 2325-2335
- **HADRON PRODUCTION IN NUCLEAR COLLISIONS - NEW PARTON-MODEL APPROACH** *PHYSICAL REVIEW LETTERS*
BRODSKY, S. J., Gunion, J. F., Kuhn, J. H.
1977; 39 (18): 1120-1123
- **HADRON MULTIPLICITY IN COLOR-GAUGE THEORY MODELS** *PHYSICAL REVIEW LETTERS*
BRODSKY, S. J., Gunion, J. F.
1976; 37 (7): 402-405
- **DEUTERON FORM-FACTOR AND SHORT-DISTANCE BEHAVIOR OF NUCLEAR-FORCE** *PHYSICAL REVIEW LETTERS*
BRODSKY, S. J., CHERTOK, B. T.
1976; 37 (5): 269-272

- **CHARGE ASYMMETRY IN EPSILON + EPSILON(-)-JGAMMA+ HADRONS - NEW TESTS OF QUARK-PARTON MODEL AND FRACTIONAL CHARGE** *PHYSICAL REVIEW D*
BRODSKY, S. J., Carlson, C. E., Suaya, R.
1976; 14 (9): 2264-2272
- **ASYMPTOTIC FORM-FACTORS OF HADRONS AND NUCLEI AND CONTINUITY OF PARTICLE AND NUCLEAR DYNAMICS** *PHYSICAL REVIEW D*
BRODSKY, S. J., CHERTOK, B. T.
1976; 14 (11): 3003-3020
- **ANALYSIS OF PARTICLE PRODUCTION AT LARGE TRANSVERSE-MOMENTUM** *PHYSICAL REVIEW D*
BLANKENBECLER, R., BRODSKY, S. J., Gunion, J.
1975; 12 (11): 3469-3487
- **SCALING LAWS FOR LARGE-MOMENTUM-TRANSFER PROCESSES** *PHYSICAL REVIEW D*
BRODSKY, S. J., Farrar, G. R.
1975; 11 (5): 1309-1330
- **UNIFIED DESCRIPTION OF INCLUSIVE AND EXCLUSIVE REACTIONS AT ALL MOMENTUM-TRANSFERS** *PHYSICAL REVIEW D*
BLANKENBECLER, R., BRODSKY, S. J.
1974; 10 (9): 2973-2992
- **PHYSICAL EFFECTS OF HADRONIC BREMSSTRAHLUNG - REACTIONS AT LARGE AND SMALL MOMENTUM-TRANSFERS** *PHYSICAL REVIEW D*
BLANKENB, R., BRODSKY, S. J., Gunion, J. F., Savit, R.
1974; 10 (7): 2153-2164
- **SCALING LAWS AT LARGE TRANSVERSE MOMENTUM** *PHYSICAL REVIEW LETTERS*
BRODSKY, S. J., Farrar, G. R.
1973; 31 (18): 1153-1156
- **QUANTUM ELECTRODYNAMICS AND RENORMALIZATION THEORY IN INFINITE-MOMENTUM FRAME** *PHYSICAL REVIEW D*
BRODSKY, S. J., Roskies, R., Suaya, R.
1973; 8 (12): 4574-4594
- **GAUGE-INVARIANT SCALING MODEL OF CURRENT INTERACTIONS WITH REGGE BEHAVIOR AND FINITE FIXED-POLE SUM-RULES** *PHYSICAL REVIEW D*
BRODSKY, S. J., Close, F. E., Gunion, J. F.
1973; 8 (10): 3678-3700
- **CONNECTION BETWEEN REGGE BEHAVIOR AND FIXED-ANGLE SCATTERING** *PHYSICAL REVIEW D*
BLANKENB, R., BRODSKY, S. J., Gunion, J. F., Savit, R.
1973; 8 (11): 4117-4133
- **LARGE-ANGLE SCATTERING AND INTERCHANGE FORCE** *PHYSICAL REVIEW D*
Gunion, J. F., BRODSKY, S. J., BLANKENB, R.
1973; 8 (1): 287-312
- **PHENOMENOLOGY OF PHOTON PROCESSES, VECTOR DOMINANCE, AND CRUCIAL TESTS FOR PARTON MODELS** *PHYSICAL REVIEW D*
BRODSKY, S. J., Close, F. E., Gunion, J. F.
1972; 6 (1): 177-189
- **COMPOSITE THEORY OF LARGE-ANGLE SCATTERING AND NEW TESTS OF PARTON CONCEPTS** *PHYSICS LETTERS B*
Gunion, J. F., BRODSKY, S. J., BLANKENB, R.
1972; B 39 (5): 649-?
- **TEST FOR FRACTIONALLY CHARGED PARTONS FROM DEEP-INELASTIC BREMSSTRAHLUNG IN SCALING REGION** *PHYSICAL REVIEW D*
BRODSKY, S. J., Jaffe, R. L., Gunion, J. F.
1972; 6 (9): 2487-?

- **COMPTON-SCATTERING AND FIXED POLES IN PARTON FIELD-THEORETIC MODELS** *PHYSICAL REVIEW D*
BRODSKY, S. J., Close, F. E., Gunion, J. F.
1972; 5 (6): 1384-?
- **COMPOSITE THEORY OF INCLUSIVE SCATTERING AT LARGE TRANSVERSE MOMENTA** *PHYSICAL REVIEW D*
Gunion, J. F., BRODSKY, S. J., BLANKENBECLER, R.
1972; 6 (9): 2652-?
- **QUANTUM ELECTRODYNAMICS AND RENORMALIZATION THEORY IN INFINITE MOMENTUM FRAME** *PHYSICS LETTERS B*
BRODSKY, S. J., Roskies, R.
1972; 41 (4): 517-?
- **INCLUSIVE PROCESSES AT HIGH TRANSVERSE MOMENTUM** *PHYSICS LETTERS B*
BLANKENB, R., BRODSKY, S. J., Gunion, J. F.
1972; B 42 (4): 461-465
- **Fourth-Order Electrodynamic Corrections to the Lamb Shift** *PHYSICAL REVIEW A-GENERAL PHYSICS*
Appelquist, T., Brodsky, S. J.
1970; 2 (6): 2293-2303
- **STATISTICAL MODEL FOR ELECTRON-POSITRON ANNIHILATION INTO HADRONS** *PHYSICAL REVIEW D*
Bjorken, J. D., BRODSKY, S. J.
1970; 1 (5): 1416-?
- **ORDER ALPHA² ELECTRODYNAMIC CORRECTIONS TO LAMB SHIFT** *PHYSICAL REVIEW LETTERS*
Appelquist, T., BRODSKY, S. J.
1970; 24 (11): 562-?