

Stanford

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

- **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

● **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

● **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

● **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)over-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.

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● **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

● **Supersymmetric and Conformal Features of Hadron Physics** *UNIVERSE*

Brodsky, S. J.

2018; 4 (11)

● **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.
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- **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* -> 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.
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 - **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.
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 - **A precise determination of the top-quark pole mass** *EUROPEAN PHYSICAL JOURNAL C*
Wang, S., Wu, X., Si, Z., Brodsky, S. J.
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 - **QCD constituent counting rules for neutral vector mesons** *PHYSICAL REVIEW D*
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2018; 97 (3)
 - **Physics perspectives with AFTER@LHC (A Fixed Target Experiment at LHC)**
Massacrier, L., Anselmino, M., Arnaldi, R., Brodsky, S. J., Chambert, V., Da Silva, C., Didelez, J. P., Echevarria, M. G., Ferreiro, 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.

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● **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.

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● **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: $e(+)\bar{e}(-) \rightarrow \gamma\gamma$ $\gamma\gamma^* \rightarrow \gamma\gamma$ $V-0$ and $e(+)\bar{e}(-) \rightarrow \gamma\gamma^*\gamma\gamma^* \rightarrow (V\bar{V})-V-0$** *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.

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● **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.
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- **QCD dynamics of tetraquark production** *PHYSICAL REVIEW D*
Brodsky, S. J., Lebed, R. F.
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- **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.
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- **Superconformal baryon-meson symmetry and light-front holographic QCD** *PHYSICAL REVIEW D*
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 - **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.
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 - **Application of the principle of maximum conformality to the top-quark charge asymmetry at the LHC** *PHYSICAL REVIEW D*
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2014; 90 (11)
 - **Effective confining potentials for QCD** *PHYSICAL REVIEW D*
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 - **Electron g-2 in Light-front Quantization** *PHYSICS LETTERS B*
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 - **Dynamical Picture for the Formation and Decay of the Exotic XYZ Mesons** *PHYSICAL REVIEW LETTERS*
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 - **Light-front holographic QCD and color confinement** *INTERNATIONAL JOURNAL OF MODERN PHYSICS A*
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 - **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
 - **QCD on the Light-Front** *FEW-BODY SYSTEMS*
Brodsky, S. J., de Teramond, G. F., Dosch, H. G.
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 - **Applications of Basis Light-Front Quantization to QED** *International Conference on Light-Cone Physics - Hadronic and Particle Physics (LC)*
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 - **Threefold complementary approach to holographic QCD** *PHYSICS LETTERS B*
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 - **Systematic scale-setting to all orders: The principle of maximum conformality and commensurate scale relations** *PHYSICAL REVIEW D*
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● **Spin physics at a fixed-target experiment at the LHC (AFTER@LHC) PHYSICS OF PARTICLES AND NUCLEI**

Rakotozafindrabe, A., Anselmino, M., Arnaldi, 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
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● **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.
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● **The renormalization scale-setting problem in QCD PROGRESS IN PARTICLE AND NUCLEAR PHYSICS**

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● **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.
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● **STUDIES OF NUCLEON RESONANCE STRUCTURE IN EXCLUSIVE MESON ELECTROPRODUCTION INTERNATIONAL JOURNAL OF MODERN PHYSICS E-NUCLEAR PHYSICS**

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● **Systematic All-Orders Method to Eliminate Renormalization-Scale and Scheme Ambiguities in Perturbative QCD PHYSICAL REVIEW LETTERS**

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● **Kinematical and dynamical aspects of higher-spin bound-state equations in holographic QCD PHYSICAL REVIEW D**

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● **Physics opportunities of a fixed-target experiment using LHC beams PHYSICS REPORTS-REVIEW SECTION OF PHYSICS LETTERS**

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● **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**

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2012; 86 (5)

● **Eliminating the Renormalization Scale Ambiguity for Top-Pair Production Using the Principle of Maximum Conformality PHYSICAL REVIEW LETTERS**

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2012; 109 (4)

- **Application of the principle of maximum conformality to top-pair production** *PHYSICAL REVIEW D*
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- **Quarkonium Physics at a Fixed-Target Experiment using the LHC Beams** *FEW-BODY SYSTEMS*
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- **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.
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- **Light-Front Holography, Light-Front Wavefunctions, and Novel QCD Phenomena** *FEW-BODY SYSTEMS*
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