Curriculum vitae

Name: Andrei Belitsky

Home institute: Department of Physics,
Arizona State University,
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Contents

1 Academic degrees

- **1996** – *Ph.D.*, Bogoliubov Laboratory of Theoretical Physics, Joint Institute for Nuclear Research, Dubna, Russia:
  PhD Thesis *"Analysis of hadron and photon structure functions in QCD sum rules"*; supervised by Prof. Anatoly V. Efremov

- **1993** – *M.S.*, *summa cum laude*, Department of Physics, Yaroslavl State University, Russia and Moscow State University Research Center at Bogoliubov Laboratory of Theoretical Physics, Joint Institute for Nuclear Research, Dubna, Russia:
  MS Thesis *"Transversity in QCD"*; supervised by Prof. Anatoly V. Efremov

2 Education

- **1993-1996** – Bogoliubov Laboratory of Theoretical Physics, Joint Institute for Nuclear Research, Dubna, Russia;
  Speciality: 01.04.02 – Theoretical Physics

- **1992-1993** – Moscow State University Research Center at Bogoliubov Laboratory of Theoretical Physics, Joint Institute for Nuclear Research, Dubna, Russia;
  Main subjects: Physics, Theoretical Physics

- **1988-1993** – Department of Physics, Yaroslavl State University, Russia;
  Main subjects: Physics, Theoretical Physics

3 Professional appointments

- **since 2013** – *Professor*, Department of Physics, Arizona State University, Tempe, AZ, USA

- **2009 - 2013** – *Associate Professor*, Department of Physics, Arizona State University, Tempe, AZ, USA

- **2004 - 2009** – *Assistant Professor*, Department of Physics, Arizona State University, Tempe, AZ, USA

- **2002 - 2004** – *Research Assistant Professor*, Department of Physics, University of Maryland at College Park, College Park, MD, USA

- **2001 - 2002** – *Research Associate*, Department of Physics, University of Maryland at College Park, College Park, MD, USA

- **1999 - 2001** – *Research Associate*, C.N. Yang Institute for Theoretical Physics, State University of New York at Stony Brook, Stony Brook, NY, USA

- **1997 - 1999** – *Alexander von Humboldt Fellow*, Institut für Theoretische Physik, Universität Regensburg, Regensburg, Germany

- **1993 - 1997** – *Junior Research Scientist*, Bogoliubov Laboratory of Theoretical Physics, Joint Institute for Nuclear Research, Dubna, Russia

4 Awards and honors

- **2009** – *Faculty Achievement Award for Defining Edge Research/Creative Activities: Young Investigator*, Arizona State University, AZ, USA
- **2009** – *Promotion and Tenure Exemplar*, Arizona State University, AZ, USA
- **2007** – *Visiting Fellow*, Isaac Newton Institute for Mathematical Sciences, Cambridge, UK
- **2000** – *Alexander von Humboldt Fellow*, Alexander von Humboldt Foundation, Germany
- **1997 - 1999** – *Alexander von Humboldt Fellow*, Alexander von Humboldt Foundation, Germany
- **1994 - 1996** – *Soros PhD student*, International Science Foundation, USA
- **1993** – *Landau Minimum* in Quantum mechanics; examiner: Prof. Karen A. Ter-Martirosian, Institute of Theoretical and Experimental Physics, Moscow, Russia

5 Funded Grants at ASU

- **2017 - 2020** – Grant PHY-1713125 from the National Science Foundation, USA; *Topics in Strong Force*, Andrei Belitsky (PI); $270,000
- **2014 - 2017** – Grant PHY-1403891 from the National Science Foundation, USA; *Theory and Phenomenology of Strong Interactions*, Andrei Belitsky (coPI), Richard Lebed (PI); $600,000
- **2011 - 2014** – Grant PHY-1068286 from the National Science Foundation, USA; *New Perspectives on Bound States and the Flavor Problem*, Andrei Belitsky (coPI), Richard Lebed (PI); $600,000
- **2008 - 2011** – Grant PHY-0757394 from the National Science Foundation, USA; *New Tools to Study Strong Interaction Physics*, Andrei Belitsky (PI), Richard Lebed (co-PI); $480,000
- **2005 - 2008** – Grant PHY-0456520 from the National Science Foundation, USA; *Topics in Hadron and Flavor Physics, and Yang-Mills Integrability*, Andrei Belitsky (co-PI), Richard Lebed (PI); $420,000

6 Funded Grants prior to ASU employment

- **1996 - 1997** – Grant RFBR-96-02-17631 from the Russian Foundation for Basic Research, Russia; with Anatoly Efremov, Oleg Teryaev, Sergei Mikhailov, Alexander Bakulev
- **1994 - 1996** – Grant from the International (Soros) Science Foundation, USA ($4,000)

7 Mentoring

Note: Current position is shown in brackets, when known

- Graduate advisor:
  - **2017 - up to now** – Elena Drobnyh (ASU)
  - **2017 - up to now** – Brandom Sumner (ASU)
  - **2014 - up to now** – Nikhil Monga (ASU)
  - **2016 - up to now** – David Warren (ASU)
  - **2011 - 2016** – Yao Ji (postdoc, Universität Regensburg)
  - **2011** – Michael Glatzmaier (postdoc, University of Kentuky)
  - **2008 - 2010** – Joel Lynn
  - **2007 - 2008** – Roman Pasechnik (assistant professor, Lund University)
  - **2007 - 2008** – Duncan McFarland
  - **2006 - 2008** – Xiang Chen
- Postgraduate advisor/mentor:
  - **intermittently from 2010 to 2011** – Benjamin Basso (Professor, ENS)
  - **2011** – Sonny Mantry
  - **2011** – Alexander Manashov (senior researcher, University of Regensburg)
  - **2009 - 2011** – Eric Mayes (assistant professor, University of Texas at Tyler)
  - **2006 - 2008** – Herry Kwee (assistant professor, Surya College of Education)
  - **2005 - 2006 and intermittently from 2007 - 2012** – Dieter Müller (senior researcher, University of Zagreb)
  - **2006** – David Karakhanyan (senior researcher, Yerevan Physics Institute, Yerevan)
  - **2006** – Sergei Derkachov (senior researcher, Steklov Mathematics Institute, St.-Petersburg)
- PhD thesis committee member:
  - **2016** – Henry Lamm (ASU)
  - **2015** – Yao Ji (ASU)

- **2015** – Russell TerBeek (ASU)
- **2012** – Robert Morgan (ASU)
- **2012** – Septimiu Balascuta (ASU)
- **2011** – Michael Leznyak (ASU)
- **2009** – Benjamin Basso (Orsay)
- **2008** – Songnan Wu (ASU), Russell Ryan (ASU), Pallas Kennedy (ASU), Benjamin O'Neill (ASU)
- **2007** – Eugene Geis (ASU)

- Department of Physics Research Rotation, Honor Thesis, Graduate Academic Mentor and Reading Course Advisor

  - **2016** – Jacob Ward
  - **2015** – Dana Delconte
  - **2015** – Christopher Luna
  - **2014** – Michael Clark
  - **2013** – Matthew Brown
  - **2013** – Bryan Rock
  - **2010** – Yao Ji
  - **2009** – Joel Lynn
  - **2008** – Duncan McFarland
  - **2007** – Xiang Chen
  - **2007** – Kyle Scanlan
  - **2005** – Mohamed Bouadani
  - **2005** – Samuel Tobler

8 Professional service

- Referee for Physical Review Letters, Physical Review C and D, Nuclear Physics A and B, Physics Letters B, JHEP
- Referee of NSF (regular and CAREER) and (regular and OJI) DOE grant proposals
- Session chairman at scientific conferences and workshops
- Organizer of scientific conferences and workshops:

  - **2012** – chair of the organizing committee of the international conference "Scattering Amplitudes: from QCD to maximally supersymmetric Yang-Mills theory and back", ECT*, Trento, Italy

- **2009** – chair of the organizing committee of the international conference "Recent Advances in Perturbative QCD and Hadronic Physics", ECT*, Trento, Italy
- **2008** – co-organizer of the biweekly seminar in Particle Physics and Astrophysics, Department of Physics, Arizona State University, AZ, USA
- **2005** – organizer of the biweekly seminar on Theoretical Nuclear and Particle Physics, Department of Physics and Astronomy, Arizona State University, AZ, USA
- **2004** – member of the Organizing Committee of the second "Electron-Ion Collider Workshop", Jefferson Laboratory, VA, USA
- **2003** – convener of the session Generalized Parton Distributions at Fourth Circum Pan Pacific Spin Symposium Institute for Nuclear Theory, University of Washington, Seattle, WA, USA
- **2003** – member of the organizing committee of the Fourth Circum Pan Pacific Spin Symposium Institute for Nuclear Theory, University of Washington, Seattle, WA, USA
- **2003** – member of the organizing committee of the program "Generalized Parton Distributions and Hard Exclusive Processes", Institute for Nuclear Theory, University of Washington, Seattle, WA, USA
- **2001 - 2003** – organizer of the weekly seminar on Theoretical and Experimental Nuclear Physics, Department of Physics, University of Maryland, MD, USA
- **1996** – member of the organizing committee of the 3d International Conference 'Renormalization Group 96', Bogoliubov Laboratory of Theoretical Physics Joint Institute for Nuclear Research, Dubna, Russia

9 Teaching at ASU

- **2017 (S)** – PHY500, Research Methods
- **2017 (F)** – PHY792, Research
- **2017 (F)** – PHY416, Quantum Physics III
- **2017 (S)** – PHY792, Research
- **2017 (S)** – PHY441, Thermo/Statistical Physics
- **2016 (F)** – PHY792, Research
- **2016 (F)** – PHY416, Quantum Physics III
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- **2015 (F)** – PHY792, Research
- **2015 (S)** – PHY441, Thermo/Statistical Physics
- **2015 (S)** – PHY500, Research Methods
- **2014 (F)** – PHY416, Quantum Physics III
- **2014 (F)** – PHY792, Research
- **2014 (S)** – PHY500, Research Methods
- **2014 (S)** – PHY441, Thermo/Statistical Physics
- **2014 (S)** – PHY500, Research Methods
- **2013 (F)** – PHY416, Quantum Physics III
- **2013 (F)** – PHY792, Research
- **2013 (S)** – PHY500, Research Methods
- **2013 (S)** – PHY792, Research
- **2013 (S)** – PHY498/PHY598, Introduction to String Theory
- **2012 (F)** – PHY 792, Research
- **2012 (F)** – PHY416, Quantum Physics III
- **2012 (S)** – PHY 792, Research
- **2011 (F)** – PHY416, Quantum Physics III
- **2011 (F)** – PHY 792, Research
- **2011 (S)** – PHY531 Electrodynamics
- **2011 (S)** – PHY 500, Research Methods
- **2010 (F)** – PHY416 Quantum Physics III
- **2010 (F)** – PHY 792, Research
- **2010 (S)** – PHY531, Electrodynamics
- **2010 (S)** – PHY 792, Research
- **2009 (F)** – PHY416, Quantum Physics III
- **2009 (S)** – PHY531, Electrodynamics

- **2008 (F)** – PHY532, Advanced Electrodynamics
- **2008 (F)** – PHY 500, Research Methods
- **2008 (S)** – PHY 500, Research Methods
- **2008 (S)** – PHY498/PHY598, Introduction to String Theory
- **2007 (F)** –PHY 500, Research Methods
- **2007 (F)** – PHY416, Quantum Physics III,
- **2007 (S)** – PHY590, Reading course
- **2007 (S)** – PHY590, Reading course
- **2007 (S)** – PHY498/PHY598, Basics of String Theory
- **2007 (S)** – PHY532, Electrodynamics
- **2006 (F)** – PHY531, Electrodynamics
- **2006 (S)** – PHY532, Advanced Electrodynamics
- **2005 (F)** – PHY53, Electrodynamics
- **2005 (S)** – PHY532, Advanced Electrodynamics
- **2004 (F)** – PHY531, Electrodynamics

10 Teaching prior to ASU

- **2004 (S)** – *Substitute for Lecturer*, PHY410, Classical Mechanics, Department of Physics, University of Maryland, MD
- **2003 (F)** – *Substitute for Lecturer*, PHY374, Intermediate Theoretical Methods, Department of Physics, University of Maryland, MD
- **2002 (F)** – *Substitute for Lecturer*, PHY401 Quantum Mechanics, Department of Physics, University of Maryland, MD
- **2002** – *Lecturer*, 17th Summer School HUGS@CEBAF, Jefferson Laboratory, Newport News, VA
- **1997** – *Lecturer*, 31st St. Petersburg Winter School on Nuclear and Particle Physics, Repino, St. Petersburg, Russia
- **1992 (S)** – *Instructor*, Quantum Mechanics, Department of Physics, Yaroslavl State University, Russia

11 Committee service at ASU

- **2004 (F) - 2005 (S)** – Graduate Program Committee and the Graduate Examination Committee
- **2005 (F) - 2006 (S)** – Graduate Program Committee and the Graduate Examination Committee
- **2006 (F) - 2007 (S)** – Graduate Examination Committee and Colloquium Committee (chair)
- **2007 (F) - 2008 (S)** – Colloquium Committee, Graduate Examination Committee
- **2007 (F) - 2008 (S)** – Search Committee
- **2008 (F) - 2009 (S)** – Colloquium Committee (chair), Committee on Committees
- **2009 (F) - 2010 (S)** – Colloquium Committee (chair), Committee on Committees
- **2009 (F) - 20010 (S)** – Search Committee
- **2010 (F) - 2011 (S)** – Committee on Committees, Undergraduate Program Committee
- **2011 (F) - 2012 (S)** – CLAS Research Awards Committee, Undergraduate Program Committee
- **2012 (F) - 2013 (S)** – CLAS Research Awards Committee, Graduate Program Committee
- **2011 (F) - 2013 (S)** – Undergraduate Program Committee
- **2012 (F) - 2014 (S)** – Graduate Program Committee
- **2013 (F) - 2015 (S)** – Graduate Exam Committee
- **2014 (F) - 2016 (S)** – CLAS Academic Standards Committee
- **2016 (F) - 2018 (S)** – Personnel Committee (chair), Committee on Committees
- **2016 (F) - 2017 (S)** – Search Committee

12 List of publications

1. A.V. Belitsky, *Spectral determinants for twist field correlators*, arXiv:1706.06680 [hep-th], submitted to Phys. Rev. D.
2. A.V. Belitsky, *Vacuum expectation value of twist fields*, arXiv:1704.02929 [hep-th], Phys. Rev. D (2017) (in press).
3. A.V. Belitsky, *Leading order analysis of the twist-3 spacelike and timelike cut vertices in QCD*, Int. J. Mod. Phys. A 32 (2017) 1730018, hep-ph/9703432.

4. A.V. Belitsky, *Twisting perturbed parafermions*, Phys. Lett. B 770 (2017) 35-42, arXiv:1701.08914 [hep-th].

5. A.V. Belitsky, *Matrix pentagons*, arXiv:1607.06555 [hep-th], Nucl. Phys. B. (2017) (in press).

6. A.V. Belitsky, *Supersymmetric quantum mechanics of the flux tube*, Nucl. Phys. B 913 (2016) 551-592, arXiv:1604.00418 [hep-th].

7. A.V. Belitsky, *Nonperturbative enhancement of superloop at strong coupling*, Nucl. Phys. B 911 (2016) 425-446, arXiv:1512.00555 [hep-th].

8. A.V. Belitsky, *Towards NMHV amplitudes at strong coupling*, Nucl. Phys. B 911 (2016) 517-562, arXiv:1509.06054 [hep-th].

9. A.V. Belitsky, *Descent equation for superloop and cyclicity of OPE*, Nucl. Phys. B 913 (2016) 815-833, arXiv:1506.02598 [hep-th].

10. A.V. Belitsky, *On factorization of multiparticle pentagons*, Nucl. Phys. B 897 (2015) 346-373, arXiv:1501.06860 [hep-th].

11. Y. Ji, A.V. Belitsky, *On equations of motion in twist-four evolution*, Int. J. Mod. Phys. Conf. Ser. 37 (2015) 1560051, arXiv:1410.5805 [hep-ph].

12. A.V. Belitsky, *Fermionic pentagons and NMHV hexagon*, Nucl. Phys. B 894 (2015) 108-135, arXiv:1410.2534 [hep-th].

13. A.V. Belitsky, S. Hohenegger, G.P. Korchemsky, E. Sokatchev, *Superconformal Ward identities in N=4 SYM*, Nucl. Phys. B 904 (2016) 176-215 arXiv:1409.2502 [hep-ph].

14. A.V. Belitsky, *Nonsinglet pentagons and NMHV amplitudes*, Nucl. Phys. B 896 (2015) 493-554, arXiv:1407.2853 [hep-ph].

15. Y. Ji, A.V. Belitsky, *Renormalization of twist-four operators in light-cone gauge*, Nucl. Phys. B 894 (2015) 161-222, arXiv:1405.2828 [hep-ph].

16. A.V. Belitsky, S.E. Derkachov, A.N. Manashov, *Quantum mechanics of null polygonal Wilson loops*, Nucl. Phys. B 882 (2014) 303-351, arXiv:1401.7307 [hep-th].

17. A.V. Belitsky, S. Hohenegger, G.P. Korchemsky, E. Sokatchev, A. Zhiboedov, *Energy-energy correlations in N=4 SYM*, Phys. Rev. Lett. 112 (2014) 071601, arXiv:1311.6800 [hep-th].

18. A.V. Belitsky, S. Hohenegger, G.P. Korchemsky, E. Sokatchev, A. Zhiboedov, *Event shapes in $N = 4$ super-Yang-Mills theory*, Nucl. Phys. B 884 (2014) 206-256, arXiv:1309.1424 [hep-th].

19. A.V. Belitsky, S. Hohenegger, G.P. Korchemsky, E. Sokatchev, A. Zhiboedov, *From correlation functions to event shapes*, Nucl. Phys. B 884 (2014) 305-343, arXiv:1309.0769 [hep-th].

20. A.V. Belitsky, D. Müller, Y. Ji, *Compton scattering: from deeply virtual to quasi-real*, Nucl. Phys. B 878 (2014) 214-268, arXiv:1212.6674.

21. A.V. Belitsky, S. Caron-Huot, *Superpropagator and superconformal invariants*, Phys. Lett. B 718 (2013) 1083-1088, arXiv:1209.0224 [hep-th].

22. A.V. Belitsky, *A note on two-loop superloop*, Phys. Lett. B 718 (2012) 205-213, arXiv: 1207.1924 [hep-th].

23. A.V. Belitsky, *Conformal anomaly for super Wilson loop*, Nucl. Phys. B 862 (2012) 430-449, arXiv:1201.6073 [hep-th]

24. A.V. Belitsky, *OPE for null Wilson loops and open spin chains*, Phys. Lett. B 709 (2012) 280-284, arXiv:1110.1063 [hep-th]

25. B. Basso, A.V. Belitsky, *Luescher formula for GKP string*, Nucl. Phys. B 860 (2012) 1-86, arXiv:1108.0999 [hep-th]

26. A.V. Belitsky, A. Manashov, A. Schäfer, *Twist-four Corrections to Parity-Violating Electron-Deuteron Scattering*, Phys. Rev. D 84 (2011) 014010, arXiv:1104.0511 [hep-ph]

27. A.V. Belitsky, G.P. Korchemsky, E. Sokatchev, *Are scattering amplitudes dual to super Wilson loops?*, Nucl. Phys. B 855 (2012) 333-360, arXiv:1103.3008 [hep-th]

28. A.V. Belitsky, R.F. Lebed, V.E. Mayes, *Realistic Four-Generation MSSM in Type II String Theory*, Phys. Lett. B 697 (2011) 343-350, arXiv:1012.3465 [hep-ph]

29. A.V. Belitsky, D. Müller, *Exclusive electroproduction revisited: treating kinematical effects*, Phys. Rev. D 82 (2010) 074010, arXiv:1005.5209 [hep-ph]

30. A.V. Belitsky, *Dual technicolor with hidden local symmetry*, Phys. Rev. D 82 (2010) 045006, arXiv:1003.0062v1 [hep-ph].

31. M. Beccaria, A.V. Belitsky, A.V. Kotikov, S. Zieme, *Analytic solution of the multiloop Baxter equation*, Nucl. Phys. B 827 (2010) 565-606, arXiv:0908.0520 [hep-th].

32. A.V. Belitsky, *Baxter equation beyond wrapping*, Phys. Lett. B 677 (2009) 93-99, arXiv:0902. 3198 [hep-th].

33. A.V. Belitsky, D. Müller, *Refined analysis of photon leptoproduction off spinless target*, Phys. Rev. D 79 (2009) 014017, arXiv:0809.2890 [hep-ph].

34. A.V. Belitsky, G.P. Korchemsky, R. Pasechnik, *Fine structure of anomalous dimensions in $N = 4$ super-Yang-Mills theory*, Nucl. Phys. B 809 (2009) 244-278, arXiv:0806.3657 [hep-ph].

35. A.V. Belitsky, *Fusion hierarchies for N=4 super-Yang-Mills theory*, Nucl. Phys. B 803 (2008) 171-193, arXiv:0803.2035 [hep-th].

36. A.V. Belitsky, *Strong coupling expansion of Baxter equation in N=4 SYM*, Phys. Lett. B 659 (2008) 732-740, arXiv:0710.2294 [hep-th].

37. A.V. Belitsky, J. Henn, C. Jarczak, D. Müller, E. Sokatchev, *Anomalous dimensions of leading twist conformal operators*, Phys. Rev. D 77 (2008) 045029, arXiv:0707.2936 [hep-th].

38. A.V. Belitsky, *Analytic Bethe Ansatz and Baxter equations for long-range psl(2|2) spin chain*, Nucl. Phys. B 793 (2008) 363-395, arXiv:0706.4121 [hep-th].

39. A.V. Belitsky, *Baxter equation for long-range $SL(2|1)$ magnet*, Phys. Lett. B 650 (2007) 72-80, hep-th/0703058.

40. A.V. Belitsky, S.E. Derkachov , G.P. Korchemsky, A.N. Manashov, *Baxter Q-operator for graded $SL(2|1)$ spin chain*, J. Stat. Mech. (2007) P01005, hep-th/0610332.

41. A.V. Belitsky, *Long-range SL(2) Baxter equation in $N = 4$ super-Yang-Mills theory*, Phys. Lett. B 643 (2006) 354-361, hep-th/0609068.

42. A.V. Belitsky, G.P. Korchemsky, D. Müler, *Towards Baxter equation in supersymmetric Yang-Mills theories*, Nucl. Phys. B 768 (2007) 116-134, hep-th/0605291.

43. A.V. Belitsky, A.S. Gorsky, G.P. Korchemsky, *Logarithmic scaling in gauge/string correspondence*, Nucl. Phys. B 748 (2006) 24, hep-th/0601112.

44. A.V. Belitsky, G.P. Korchemsky, D. Müller, *Integrability of two-loop dilatation operator in gauge theories*, Nucl. Phys. B 735 (2006) 17-83, hep-th/0509121.

45. A.V. Belitsky, A.V. Radyushkin, *Unraveling three-dimensional structure of hadrons with generalized parton distributions*, Phys. Rept. 418 (2005) 1-387, hep-ph/0504030.

46. A.V. Belitsky, S.É. Derkachov, G.P. Korchemsky, A.N. Manashov, *Superconformal operators in (super-)Yang-Mills theories on the light-cone* , Nucl. Phys. B 722 (2005) 191-221, hep-th/0503137.

47. A.V. Belitsky, D. Müller, G.P. Korchemsky, *Integrability in Yang-Mills theory on the light cone beyond leading order*, Phys. Rev. Lett. 94 (2005) 151603, hep-th/0412054.

48. A.V. Belitsky, S.É. Derkachov, G.P. Korchemsky, A.N. Manashov, *One-loop dilatation operator in (super-)Yang-Mills theories on the light-cone* , Nucl. Phys. B 708 (2005) 115-193, hep-th/0409120.

49. A.V. Belitsky, V.M. Braun, A.S. Gorsky, G.P. Korchemsky, *Integrability in QCD and beyond*, Int. J. Mod. Phys. A. 19 (2004) 4715-4788, hep-th/0407232.

50. A.V. Belitsky, S.É. Derkachov, G.P. Korchemsky, A.N. Manashov, *Quantum integrability in (super) Yang-Mills theory*, Phys. Lett. B 594 (2004) 385-401, hep-th/0403085.

51. A.V. Belitsky, S.É. Derkachov, G.P. Korchemsky, A.N. Manashov, *Superconformal operators in $\mathcal{N} = 4$ super-Yang-Mills theory*, Phys. Rev. D 70 (2004) 045021, hep-th/0311104.

52. A.V. Belitsky, X. Ji, F. Yuan, *Quark imaging in the proton via quantum phase-space distributions*, Phys. Rev. D 69 (2004) 074014, hep-ph/0307383.

53. A.V. Belitsky, D. Müller, *Probing generalized parton distributions with electorproduction of lepton pairs off the nucleon*, Phys. Rev. D 68 (2003) 116005, hep-ph/0307369.

54. A.V. Belitsky, *Renormalons in exclusive meson electroproduction*, AIP Conf. Proc. 698 (2004) 607-611, hep-ph/0307256.

55. A.V. Belitsky, A. Gorsky, G.P. Korchemsky, *Gauge/string duality and QCD conformal operators*, Nucl. Phys. B 667 (2003) 3-54, hep-th/0304028.

56. A.V. Belitsky, X. Ji, F. Yuan, *A perturbative analysis of the nucleon's Pauli form factor* $F_2(Q^2)$, Phys. Rev. Lett. 91 (2003) 092003, hep-ph/0212351.

57. A.V. Belitsky, D. Müller, *Exclusive electorproduction of lepton pairs as a probe of nucleon structure*, Phys. Rev. Lett. 90 (2002) 022001, hep-ph/0210313.

58. A.V. Belitsky, X. Ji, F. Yuan, *Final state interactions and gauge invariant parton distributions*, Nucl. Phys. B 656 (2003) 165-198, hep-ph/0208038.

59. A.V. Belitsky, D. Müller, *Nucleon hologram with exclusive leptoproduction*, Nucl. Phys. A 711 (2002) 118-126, hep-ph/0206306.

60. A.V. Belitsky, *QCD evolution equation*, in Proc. of "Phenomenology of large-N_c QCD", ed. R.F. Lebed, World Scientific, (Singapore, 2002) p. 128-142, hep-ph/0204047.

61. A.V. Belitsky, X. Ji, *Chiral structure of nucleon gravitational form factors*, Phys. Lett. B 538 (2002) 289-297, hep-ph/0203276.

62. A.V. Belitsky, T.D. Cohen, *Large-N_c QCD nuclear potential puzzle*, Phys. Rev. C 65 (2002) 064008, hep-ph/0202153.

63. A.V. Belitsky, D. Müller, A. Kirchner, *Theory of deeply virtual Compton scattering on the nucleon*, Nucl. Phys. B 629 (2002) 323-392, hep-ph/0112108.

64. A.V. Belitsky, D. Müller, *Overview of deeply virtual Compton scattering*, in Proc. of International Europhysics Conference on High Energy Physics, Proc. section of J. High Ener. Phys., hep2001/047, hep-ph/0111037.

65. I.I. Balitsky, A.V. Belitsky, *Nonlinear evolution in high density QCD*, Nucl. Phys. B 629 (2002) 290-322, hep-ph/0110158.

66. A.V. Belitsky, G.P. Korchemsky, G. Sterman, *Energy flow in QCD and event shape functions*, Phys. Lett. B 515 (2001) 297-307, hep-ph/0106308.

67. A.V. Belitsky, A. Kirchner, D. Müller, *Spin effects in deeply virtual Compton scattering*, in Proc. of the 9th International Workshop on "Deep-Inelastic Scattering and QCD", World Scientific, (Singapore, 2002) p. 648-653, hep-ph/0106228.

68. A.V. Belitsky, D. Müller, *Theory and phenomenology of generalized parton distributions*, in Proc. of 36th Rencontres de Moriond "QCD and High Energy Hadronic Interactions", ed. J. Tran Thanh Van, The Gioi Publishers (Vietnam, 2002) p. 143-150, hep-ph/0105167.

69. A.V. Belitsky, D. Müller, *Hard exclusive meson production at next-to-leading order*, Phys. Lett. B 513 (2001) 349-360, hep-ph/0105046.

70. A.V. Belitsky, D. Müller, A. Kirchner, A. Schäfer, *Twist-three observables in deeply virtual Compton scattering on the nucleon*, Phys. Lett. B 510 (2001) 117-124, hep-ph/0103343.

71. A.V. Belitsky, D. Müller, *Resummation of target mass corrections in two-photon processes*, Phys. Lett. B 507 (2001) 173-182, hep-ph/0102224.

72. A.V. Belitsky, D. Müller, A. Kirchner, A. Schäfer, *Twist-three analysis of photon electroproduction off pion*, Phys. Rev. D 64 (2001) 116002, hep-ph/0011314.

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74. A.V. Belitsky, A. Freund, D. Müller, *NLO evolution kernels for skewed transversity distributions*, Phys. Lett. B 493 (2000) 341-349, hep-ph/0008005.

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107. A.V. Belitsky, *Valence parton density in the pion from QCD sum rules*, Proc. of the 9th International Seminar on High Energy Physics "Quarks 96", Vol. 2 (1996) p. 147-154, hep-ph/9612455.

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113. A.V. Belitsky, A.V. Efremov, O.V. Teryaev, *Gluon contribution to the transverse spin structure function g_2*, Phys. Atom. Nucl. 58 (1995) 1253-1257, hep-ph/9512377.

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13 Seminars, colloquia, and invited talks

1. **Aug. 2017** – Invited talk at the Workshop on Supersymmetry and Quantum Symmetry, Dubna, Russia

2. **June 2017** – Seminar at the Institut de Physique Théorique, Saclay, France

3. **March 2017** – Seminar at SLAC Theoretical Physics, SLAC National Accelerator Laboratory, Menlo Park, CA

4. **Jan. 2017** – Seminar at the Physics Department, Brookhaven National Laboratory, Upton, NY

5. **Dec. 2016** – Seminar at Dipartimento di Fisica e Astronomia, University of Bologna, Italy

6. **Oct. 2016** – Invited talk at the "Groenewold Symposium on semi-classical methods in physics and mathematics", Groningen, Netherlands

7. **June 2016** – Seminar at Institut für Theoretisch Physik, University of Regensburg, Germany

8. **May 2016** – Invited talk at the Conference "Continuous advances in QCD", Minneapolis, Minnesota

9. **Dec. 2015** – Seminar at the Institut de Physique Théorique, Saclay, France

10. **Dec. 2015** – Colloquium at the Physics Department, University of Arizona, Arizona

11. **Aug 2015** – Talk at the Conference "Hidden symmetries and integrability methods in super Yang-Mills theories and their dual string theories", Centre de recherches matematiques, Universite de Montreal, Canada

12. **June 2015** – Seminar at the Institut de Physique Théorique, Saclay, France

13. **May 2015** – Invited talk at the "Flux Tubes" Workshop, Perimeter Institute, Canada

14. **July 2014** – Seminar at the Institut de Physique Théorique, Saclay, France

15. **July 2014** – Invited talk at the International "Conformal Symmetry" Workshop, Regensburg, Germany

16. **May 2014** – Seminar at the Physics Department, Stanford Linear Accelerator Center, Stanford, CA, USA

17. **May 2014** – Invited talk at QCD Evolution Workshop 2014, Santa Fe, NM, USA

18. **March 2014** – Cosmology Seminar at the Department of Physics, Arizona State University, USA

19. **Jan. 2014** – Seminar at the Institut de Physique Théorique, Saclay, France

20. **Dec. 2013** – Workshop "The Geometry and Physics of Scattering Amplitudes", Simons Center, SUNY at Stony Brook, NY

21. **Apr. 2013** – Workshop "Amplitudes 2013", Ringberg Castle, Germany

22. **Jan. 2013** – Seminar at the Institut de Physique Théorique, Saclay, France

23. **Sept. 2012** – Colloquium at the Department of Physics, Arizona State University, USA

24. **Aug. 2012** – Invited talk at the International Workshop "The Geometry of Scattering Amplitudes", Banff International Research Station for Mathematical Discovery, Canada

25. **July 2012** – Welcome talk at the International Conference "Scattering Amplitudes: from QCD to maximally supersymmetric Yang-Mills theory and back", ECT*, Trento, Italy

26. **May 2012** – Seminar at the Institut de Physique Théorique, Saclay, France

27. **Feb. 2012** – Seminar at the Institute for Advanced Studies, Princeton, NJ, USA

28. **Dec. 2011** – Seminar at the Institut de Physique Théorique, Saclay, France

29. **Oct. 2011** – Lecture at the Cosmology Club, Department of Physics, Arizona State University, AZ, USA

30. **May 2011** – Invited talk at the Conference "Continuous advances in QCD", Minneapolis, MN, USA

31. **May 2011** – Seminar at Stanford University, Stanford, CA, USA

32. **Apr. 2011** – Invited talk at the "QCD Evolution Workshop", Jefferson Laboratory, VA, USA

33. **Sept. 2010** – Invited talk at the conference "Perturbative and Non-Perturbative Aspects of QCD at Collider Energies" within the program "Gluons and the quark sea at high energies", Institute for Nuclear Theory, University of Washington, Seattle, WA, USA

34. **Sept. 2010** – Talk at the Cosmology Club, Department of Physics, Arizona State University, AZ, USA

35. **May 2010** – Invited talk at "The 4th Workshop on Exclusive Reactions at High Momentum Transfer", Jefferson Lab, Newport News, VA, USA

36. **Apr. 2010** – RIKEN/Nuclear Theory Group Seminar, Brookhaven National Laboratory, Brookhaven, NY, USA

37. **Nov. 2009** – Theory Group Seminar, Jefferson Laboratory, Newport News, VA, USA

38. **Oct. 2009** – Seminar at the Laboratoire de Physique Théorique, Université de Paris XI, Orsay, France

39. **July 2009** – Opening Talk at the conference "Recent Advances in Perturbatice QCD and Hadronic Physics", ECT*, Trento, Italy

40. **June 2009** – Invited talk at the workshop "Parity Violation in Deep-Inelastic Scattering", University of Wisconsin-Madison, WI, USA

41. **June 2009** – Workshop Summary talk at the workshop "Parity Violation in Deep-Inelastic Scattering", University of Wisconsin-Madison, WI, USA

42. **Dec. 2008** – Invited talk at the "Workshop on the interface between N=4 SUSY and QCD", Laboratoire de Physique Théorique et Hautes Energies, Jussieu, Paris, France

43. **June 2008** – Invited talk at the conference "Selected Problems of Modern Theoretical Physics", Bogoliubov Lab of Theoretical Physics, Joint Institute for Nuclear Research, Dubna, Russia

44. **May 2008** – Invited talk at the conference "String Methods for the Real World" within the program "From Strings to Things: String Theory Methods in QCD and Hadron Physics", Institute for Nuclear Theory, University of Washington, Seattle, WA, USA

45. **March 2008** – Seminar at the Laboratoire de Physique Théorique, Université de Paris XI, Orsay, France

46. **Feb. 2008** – Seminar at the Department of Physics, University of Connecticut, Storrs, CT, USA

47. **Dec. 2007** – Invited talk at the workshop "Integrability and the gauge/string correspondence", Isaac Newton Institute for Mathematical Sciences, Cambridge, UK

48. **July 2007** – Seminar at the Laboratoire d'Annecy-le-Vieux de Physique Théorique, Annecy-le-Vieux, France

49. **March 2007** – Seminar at the Laboratoire de Physique Théorique, Université de Paris XI, Orsay, France

50. **March 2007** – Seminar at the Stanford Linear Accelerator Center, Stanford, CA, USA

51. **Dec. 2006** – Seminar at the Department of Physics, Princeton University, Princeton, NJ, USA

52. **Dec. 2006** – Seminar at the C.N. Yang Institute of Theoretical Physics, State University of New York at Stony Brook, Stony Brook, NY, USA

53. **Dec. 2006** – Seminar at the Department of Physics, Brookhaven National Laboratory, Brookhaven, NY, USA

54. **Oct. 2006** – Invited talk at the 2006 Division of Nuclear Physics Annual Meeting of American Physical Society, Nashville, TN, USA

55. **July 2006** – Invited talk at the conference "Hadrons and Strings", ECT*, Trento, Italy

56. **July 2006** – Invited talk at the workshop "QCD and Strings", Benasque Science Center, Benasque, Spain

57. **June 2006** – Invited opening talk at the conference "Generalized Parton Distributions 2006: The Present Status", ECT*, Trento, Italy

58. **April 2006** – Seminar at the Department of Physics, University of Arizona, AZ, USA

59. **Oct. 2005** – Lecture for undergraduate students, PHY 190, Arizona State University, AZ, USA

60. **July - Aug. 2005** – Invited Talk at the Conference "Supersymmetries and Quantum Symmetries", Joint Institute for Nuclear Research, Dubna, Russia

61. **July 2005** – Seminar at the Laboratoire de Physique Théorique, Université de Paris XI, Orsay, France

62. **Apr. 2005** – Invited Talk at the Conference "Deeply inelastics scattering and QCD", Madison, Wisconsin, USA

63. **Apr. 2005** – Seminar at the Department of Physics, Ohio State University, Columbus, OH, USA

64. **Apr. 2005** – Seminar at the Department of Physics and Astronomy, Arizona State University, Tempe, AZ, USA

65. **July 2004** – Invited Talk at *"Hadron and Strings"*, ECT*, Trento, Italy

66. **June 2004** – Invited Talk at *"The 3rd International Symposium on the Gerasimov-Drell-Hearn Sum Rule and its extensions"*, Old Dominion University, Norfolk, VA, USA

67. **May 2004** – Invited Talk at Conference *"Continuous advances in QCD"*, Minneapolis, MN, USA

68. **March 2004** – Colloquium at the Department of Physics and Astronomy, Arizona State University, Tempe, AZ, USA

69. **March 2004** – Seminar at the Department of Physics and Astronomy, Arizona State University, Tempe, AZ, USA

70. **Dec. 2003** – Physics Division Seminar, Jefferson Laboratory, Newport News, VA, USA

71. **Dec. 2003** – Invited Rapporteur Talk at *"High-pT probes at RHIC"*, Brookhaven National Laboratory, Upton, NY, USA: Proc. of RIKEN BNL Center, BNL-72069-2004, v. 57 (2004) 261-266

72. **Oct. 2003** – Seminar at Center for Theoretical Physics, Massachusetts Institute of Technology, Cambridge, MA, USA

73. **Sept. 2003** – Invited Talk at the Hall C User Group meeting, Jefferson Laboratory, Newport News, VA, USA

74. **Sept. 2003** – Invited Lecture at the Institute for Advanced Studies, Princeton, NJ, USA

75. **Sept. 2003** – Invited Talk at the Hall C User Group Meeting, Jefferson Laboratory, VA, USA

76. **June 2003** – Invited Talk at the User Group Annual Meeting and Symposium *"A Celebration of CEBAF Physics: Highlights of the First Seven Years"*, Jefferson Laboratory, VA, USA

77. **May 2003** – Invited Talk at the Conference *"Intersection of Nuclear and Particle Physics"*, New York City, NY, USA

78. **May 2003** – Invited Talk at the Workshop *"QCD and Strings"*, University of Michigan, Ann Arbor, MI, USA

79. **Apr. 2003** – Invited Talk at the 2003 Meeting of American Physical Society, Philadelphia, PA, USA

80. **Feb. 2003** – Colloquium at the Department of Physics, College of William and Mary, Williamsburg, VA, USA

81. **Feb. 2003** – Seminar at the Theory Group, Jefferson Lab, Newport News, VA, USA

82. **Jan. 2003** – Seminar at the Department of Physics, University of Maryland, College Park, MD, USA

83. **Jan. 2003** – Seminar at the Institute for Nuclear Theory, University of Washington, Seattle, WA, USA

84. **Nov. 2002** – Seminar at the Physics Department, Brookhaven National Laboratory, Upton, NY, USA

85. **Oct. 2002** – Seminar at the Department of Physics and Astronomy, State University of New York at Stony Brook, Stony Brook, NY, USA

86. **Oct. 2002** – Invited Talk at the Conference *"N Star 2002"*, Pittsburgh, PA, USA

87. **Aug. 2002** – Invited Talk at the Hall B discussion on 12 GeV upgrade, Jefferson Laboratory, VA, USA

88. **Aug. 2002** – Invited Talk at the Conference *"Light-cone 2002"*, Los Alamos National Laboratory, Los Alamos, NM, USA

89. **June 2002** – Invited Talk at the *Annual User Meeting and Workshop*, Jefferson Laboratory, VA, USA

90. **June 2002** – Invited Lectures at the *Summer School HUGS@CEBAF*, Jefferson Laboratory, VA, USA

91. **May 2002** – Invited Talk at the Workshop *"Exclusive processes at high momentum transfer"*, Jefferson Laboratory, VA, USA

92. **Apr. 2002** – Invited Talk at the Workshop *"Testing QCD through spin observables in nuclear targets"*, University of Virginia, Charlottesville, VA, USA

93. **March 2002** – Seminar at the Department of Physics, University of Regina, Canada

94. **March 2002** – Colloquium at the Department of Physics, University of Regina, Canada

95. **March 2002** – Invited Talk at the Conference *"Baryons 2002"*, Jefferson Laboratory, VA, USA

96. **Feb. 2002** – Invited Talk at the Workshop *"Electron-Ion Collider"*, Brookhaven National Laboratory, Upton, NY, USA

97. **Feb. 2002** – Invited Talk at the Workshop *"Flagship experiments for CLAS at JLab"*, Jefferson Laboratory, VA, USA

98. **Jan. 2002** – Invited Talk at the Conference *"Phenomenology of large-N QCD"*, Arizona State University, Tempe, AZ, USA

99. **Nov. 2001** – Seminar at the Fachbereich Physik, Universität Wuppertal, Wuppertal, Germany

100. **Nov. 2001** – Invited Talk at the Workshop *"Generalized parton distributions"*, Physikzentrum, Bad Honnef, Germany

101. **Sept. 2001** – Seminar at the Theory Group, Jefferson Laboratory, Newport News, VA, USA

102. **Sept. 2001** – Seminar at the Hall B, Jefferson Laboratory, Newport News, VA, USA

103. **July 2001** – Seminar at the Department of Physics, University of Maryland, College Park, MD, USA

104. **June 2001** – Seminar at the Institut Henri Poincaré, Université de Paris VI, Paris, France

105. **May 2001** – Invited Talk at the Workshop *"Generalized parton distributions"* of the INT-01-1 Program *"Correlation in nucleons and nuclei"*, Institute for Nuclear Theory, University of Washington, Seattle, WA, USA

106. **March 2001** – Invited Talk at the 36th Rencontres de Moriond *"QCD and Hadronic Interactions"*, Les Arcs 1800, France

107. **March 2001** – Seminar at the Laboratoire de Physique Théorique, Université de Paris XI, Orsay, France

108. **March 2001** – Seminar at the Fachbereich Physik, Universität Wuppertal, Wuppertal, Germany

109. **Feb. 2001** – Seminar at the Division of Theoretical Physics, Los Alamos National Laboratory, Los Alamos, NM, USA

110. **Feb. 2001** – Seminar at the Department of Physics, University of Maryland, College Park, MD, USA

111. **Sept. 2000** – Invited Talk at the Workshop of the TMR Network *"QCD and deep-inelastic structure of particles"*, Minestère de Recherche, Paris, France

112. **Sept. 2000** – Invited Talk at the Workshop *"Future transversity measurements"*, RIKEN Center at Brookhaven National Laboratory, Upton, NY, USA: Proc. of RIKEN BNL Center, BNL-52612, v. 29 (2000) 337-347

113. **Sept. 2000** – Invited Talk at the Workshop *"Skewed parton distributions and lepton-nucleon scattering"*, DESY, Hamburg, Germany

114. **July 2000** – Seminar at the Institut für Theoretische Physik, Universität Regensburg, Regensburg, Germany

115. **June 2000** – Invited Talk at the *"Spin Discussions"*, Brookhaven National Laboratory, Upton, NY, USA

116. **May 2000** – Seminar at the Theory Group, Jefferson Laboratory, Newport News, VA, USA

117. **May 2000** – Invited Talk at Conference *"Continuous advances in QCD"*, Minneapolis, MN, USA

118. **March 2000** – Invited Talk at the Workshop *"Predictions and uncertainties for RHIC spin physics"*, Brookhaven National Laboratory, Upton, NY, USA: Proc. of RIKEN BNL Center, BNL-52596, v. 27 (2000) 207-211

119. **Nov. 1999** – Seminar at the Department of Nuclear Physics, Brookhaven National Laboratory, Upton, NY, USA

120. **Oct. 1999** – Seminar at the C.N. Yang Institute for Theoretical Physics, State University of New York at Stony Brook, Stony Brook, NY, USA

121. **Aug. 1999** – Invited Talk at the Workshop *"Light-cone wave functions"*, Regensburg, Germany

122. **Apr. 1999** – Talk at the 7th Conference *"Deep-inelastic scattering and QCD"*, DESY, Zeuthen, Germany

123. **Jan. 1999** – Seminar at the Institute for Nuclear Theory, University of Washington, Seattle, WA, USA

124. **Dec. 1998** – Invited Talk at the Workshop *"Structure functions and hadronic wave functions"*, Physikzentrum, Bad Honnef, Germany

125. **Dec. 1998** – Seminar at the Theory Group, Jefferson Laboratory, Newport News, VA, USA

126. **Dec. 1998** – Seminar at the Department of Physics, University of Maryland, College Park, MD, USA

127. **Nov. 1998** – Seminar at the C.N. Yang Institute for Theoretical Physics, State University of New York at Stony Brook, Stony Brook, NY, USA

128. **June 1998** – Invited Talk at the Workshop *"Deep-inelastic nonforward and forward lepton-nucleon scattering"*, Regensburg, Germany: Proc. of DESY Zeuthen, (1998)

129. **May 1998** – Seminar at the Laboratoire de Physique Théorique, Université de Paris XI, Orsay, France

130. **Nov. 1997** – Seminar at the Institut für Theoretische Physik, Universität Regensburg, Regensburg, Germany

131. **Sept. 1997** – Seminar at the Institute of Theoretical Physics, Leipzig University, Leipzig, Germany

132. **Sept. 1997** – Talk at the Workshop *"Recent developments in QCD"*, DESY, Hamburg, Germany

133. **July 1997** – Talk at the Workshop *"High-energy spin physics"*, Bogoliubov Laboratory of Theoretical Physics, Joint Institute for Nuclear Research, Dubna, Russia

134. **Feb. 1997** – Seminar at the Bololiubov Laboratory of Theoretical Physics, Joint Institute for Nuclear Research, Dubna, Russia

135. **Feb. 1997** – Lectures at the *31st St. Petersburg Winter School on Nuclear and Particle Physics*, Repino, Russia

136. **Nov. 1996** – Seminar at the Theory Division, CERN, Geneva, Switzerland,

137. **Nov. 1996** – Seminar at the Bololiubov Laboratory of Theoretical Physics, Joint Institute for Nuclear Research, Dubna, Russia

138. **June 1996** – Talk at the Workshop *"3d Meeting on the prospects of nucleon-nucleon spin physics at HERA"*, Bololiubov Laboratory of Theoretical Physics, Joint Institute for Nuclear Research, Dubna, Russia

139. **May 1996** – Colloqium at the Bogoliubov Laboratory of Theoretical Physics Joint Institute for Nuclear Research, Dubna, Russia

140. **Sept. 1996** – Seminar at the Institute for Nuclear Research of the Russian Academy of Science Moscow, Russia

141. **May 1996** – Talk at the Conference *"Quarks-96"*, Yaroslavl, Russia

142. **Oct. 1995** – Talk at the *"50th Annual Meeting of Russian Academy of Science"*, Institute of Theoretical and Experimental Physics, Moscow, Russia

143. **Sept. 1995** – Talk at the Conference *"Spin-95"*, Institute for High Energy Physics, Protvino, Russia

144. **Sept. 1995** – Seminar at the Bogoliubov Laboratory of Theoretical Physics, Joint Institute for Nuclear Research, Dubna, Russia

14 References

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