

Samuel WALLON

Publications and talks

total INSPIRES: 8700+ citations, hHEP=41; published: 5400+ citations, hHEP=36.
for a complete list in INSPIRES:

<https://inspirehep.net/literature?sort=mostrecent&size=25&page=1&q=author%3Asamuel.wallon.1&ui-citation-summary=true>

in Google Scholar:

<https://scholar.google.fr/citations?user=hkDDVw4AAAAJ&hl=fr>

Overview table:

160 publications among which:

- 56 articles in international peer-reviewed journals (+3 submitted)
- 89 international peer-reviewed conferences and published proceedings
- 16 technical reports, experimental proposals, review article.

105 talks among which:

- 63 presentations at international conferences and workshops
- 42 presentations at national workshops and laboratory seminars

Detailed list of publications (in chronological order):

Articles in international peer-reviewed journals:

- [1] E.Buffenoir et S.Wallon, *The correlation length of the Potts model at the first-order transition point*, J. Phys. A: Math. Gen. **26** (1993) 3045-3062.
- [2] H.Navelet, R.Peschanski et S.Wallon, *On the singular behaviour of structure function at low x* , Mod. Phys. Lett. **A9** (1994) 3393-3402.
- [3] R.Peschanski et S.Wallon, *Unified QCD evolution equations and the dominant behaviour of structure functions at low x* , Phys. Lett. **B349** (1995) 357-362.
- [4] Z.Maassarani et S.Wallon, *Baxter Equation for the QCD Odderon*, J. Phys. A: Math. Gen. **28** (1995) 6423-6434.

- [5] H. Navelet, R. Peschanski, Ch. Royon et S. Wallon, *Proton structure functions in the dipole picture of BFKL dynamics*, Phys. Lett. **B385** (1996) 357-364.
- [6] H. Navelet, R. Peschanski, Ch. Royon, L. Schoeffel et S. Wallon, *On the origin of the rise of F_2 at small x* , Mod. Phys. Lett. **A12** (1997) 887-897.
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- [11] Y. V. Kovchegov, L. Szymanowski et S. Wallon, *Perturbative Odderon in the dipole model*, Phys.Lett.B586 (2004) 267-281.
- [12] I.V. Anikin, B. Pire, L. Szymanowski, O.V. Teryaev et S. Wallon, *Deep Electroproduction of exotic hybrid mesons*, Phys.Rev.D70 (2004) 011501.
- [13] I.V. Anikin, B. Pire, L. Szymanowski, O.V. Teryaev et S. Wallon, *Exotic hybrid mesons in hard electroproduction*, Phys.Rev.D71 (2005) 034021.
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- [15] B. Pire, L. Szymanowski et S. Wallon, *Double diffractive ρ -production in e^+e^- -collisions*, Eur.Phys.J.C44 (2005) 545-558.
- [16] R. Enberg, B. Pire, L. Szymanowski et S. Wallon, *BFKL resummation effects in $\gamma^*\gamma^* \rightarrow \rho\rho$* , Eur.Phys.J.C45 (2006) 759-769 [Erratum-ibid. C **51** (2007) 1015].
- [17] A. Shuvaev et S. Wallon, *High energy evolution of soft gluon cascades*, Eur.Phys.J.C46 (2006) 135-145.
- [18] I.V. Anikin, B. Pire, L. Szymanowski, O.V. Teryaev et S. Wallon, *On exotic hybrid meson production in $\gamma^*\gamma$ collision*, Eur.Phys.J.C47 (2006) 71-79.
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- [24] I. V. Anikin, D. Y. Ivanov, B. Pire, L. Szymanowski and S. Wallon, *On the description of exclusive processes beyond the leading twist approximation*, Phys. Lett. B **682** (2010) 413-418.
- [25] I. V. Anikin, D. Y. Ivanov, B. Pire, L. Szymanowski and S. Wallon, *QCD factorization of exclusive processes beyond leading twist: $\gamma_T^* \rightarrow \rho_T$ impact factor with twist three accuracy*, Nucl. Phys. B **828** (2010) 1-68.
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Accepted article, to be published:

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Submitted articles:

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[58] R. Boussarie, M. Fucilla, L. Szymanowski and S. Wallon, *Probing gluonic saturation in deeply virtual meson production beyond leading power*, arXiv:2407.18203 [hep-ph], submitted to PRL.

[59] S. Nabeebaccus, J. Schönleber, L. Szymanowski and S. Wallon, *Evidence of collinear factorization breaking due to collinear-to-soft Glauber exchanges for a $2 \rightarrow 3$ exclusive process at leading twist*, arXiv:2409.16067 [hep-ph], submitted to PRD.

International peer-reviewed conferences and published proceedings:

[c1] S.Wallon, *Unified QCD evolution equations for quarks and gluons*, proceedings of DIS 95, April 1995, Paris, ed J. F. Laporte and Y. Sirois, editions de l'Ecole Polytechnique, 269-271.

[c2] S. Wallon, *QCD dipole predictions for quark singlet, gluon and F_L/F_T distributions at HERA*, proceedings Moriond 1996, preprint SPhT T96/048, [arXiv:hep-ph/9610332].

[c3] S. Wallon, *The equivalence between the color dipole model and the BFKL Pomeron at leading order*, proceedings of the Madrid workshop on small-x physics, "Madrid 1997, Low x Physics" 37-46 [arXiv:hep-ph/9712509].

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[c20] B. Pire, L. Szymanowski, F. Schwennsen and S. Wallon, *Pomeron-Odderon interference in production of $\pi^+\pi^-$ pairs in ultraperipheral collisions*, proceedings of Diffraction 2008: International Workshop on Diffraction in High-Energy Physics, La Londe-les-Maures, France, September 9-14, 2008, AIP Conf. Proc. **1105** (2009) 377 [arXiv:0811.0255 [hep-ph]].

[c21] I. V. Anikin, D. Y. Ivanov, B. Pire, L. Szymanowski and S. Wallon, *$\gamma^* \rightarrow \rho_T$ impact factor with twist three accuracy*, proceedings of Diffraction 2008: International Workshop on Diffraction in High-Energy Physics, La Londe-les-Maures, France, September 9-14, 2008, AIP Conf. Proc. **1105** (2009) 390 [arXiv:0811.2394 [hep-ph]].

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[c24] B. Pire, F. Schwennsen, L. Szymanowski and S. Wallon, proceedings of 17th International Workshop on Deep-Inelastic Scattering and Related Subjects (DIS 2009), *Pomeron Odderon interference in production of $\pi^+ \pi^-$ pairs at LHC*, Madrid, Spain, 26-30 April 2009, arXiv:0906.5512 [hep-ph].

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[c32] I. V. Anikin, D. Y. Ivanov, B. Pire, L. Szymanowski and S. Wallon, *Hard exclusive electroproduction of ρT at twist 3*, proceedings of 18th International Workshop on Deep-Inelastic Scattering and Related Subjects (DIS 2010), Florence, Italy, 19-23 April 2010, PoS DIS **2010**

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[c33] D. Colferai, F. Schwennsen, L. Szymanowski and S. Wallon, *A complete NLL BFKL calculation of Mueller Navelet jets at LHC*, proceedings of 18th International Workshop on Deep-Inelastic Scattering and Related Subjects (DIS 2010), Florence, Italie, 19-23 April 2010, PoS DIS **2010** (2010) 095 [arXiv:1006.2810 [hep-ph]].

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[c37] I. V. Anikin, D. Y. Ivanov, B. Pire, L. Szymanowski and S. Wallon, *Exclusive electroproduction of ρ_T meson with twist three accuracy*, proceedings of 35th International Conference on High Energy Physics, (ICHEP 2010), Paris, France, July 22-28, 2010, PoS ICHEP **2010** (2010) 121 [arXiv:1011.1854 [hep-ph]].

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[c46] S. Wallon, *Hard exclusive processes*, proceedings of the International Symposium on Multiparticle Dynamics (ISMD 2012), Kielce, Poland, September 16-21, 2012, Acta Phys. Polon. Supp. 6 (2013) 587-598 [arXiv:1302.2888 [hep-ph]].

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- [c55] S. Wallon, *Theory introduction*, proceedings of Photon 2013, Paris, 20-24 May 2013, arXiv:1403.3110 [hep-ph].
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[c89] G. Duplančić, S. Nabeebaccus, K. Passek-Kumerički, B. Pire, L. Szymanowski and S. Wallon, *Accessing Generalized Parton Distributions through $2 \rightarrow 3$ exclusive processes*, proceedings of 31st International Workshop on Deep-Inelastic Scattering and Related Subjects (DIS 2024) Grenoble, France, April 8-12, 2024, [arXiv:2410.03793].

Technical reports, experience proposals, summaries and collective works:

- [r1] J. A. Aguilar-Saavedra *et al.* [ECFA/DESY LC Physics Working Group], *TESLA Technical Design Report Part III: Physics at an $e+e-$ Linear Collider* [arXiv:hep-ph/0106315].
- [r2] J. Roche *et al.*, *Measurements of the electron-helicity dependent cross sections of deeply virtual Compton scattering with CEBAF at 12-GeV*, [arXiv:nucl-ex/0609015].
- [r3] A. Djouadi, J. Lykken, K. Mönig, Y. Okada, M. Oreglia, S. Yamashita, et al, International Linear Collider Reference Design Report Volume 2: PHYSICS AT THE ILC, arXiv:0709.1893 [hep-ph].
- [r4] J. Brau *et al.* [ILC Collaboration], *ILC Reference Design Report Volume 1 - Executive Summary*, arXiv:0712.1950 [physics.acc-ph].
- [r5] T. Behnke *et al.* [ILC Collaboration], *ILC Reference Design Report Volume 4 - Detectors*, arXiv:0712.2356 [physics.ins-det].
- [r6] K. Hafidi *et al.*, *Deeply Virtual Compton Scattering off ^4He* , JLab Proposal to PAC33, 2007.
- [r7] D. Boer *et al.*, *Gluons and the quark sea at high energies: distributions, polarization, tomography*, joint BNL/INT/Jlab program on the science case for an Electron-Ion Collider, September 13 to November 19, 2010, Institute for Nuclear Theory, Seattle, USA, arXiv:1108.1713 [nucl-th].
- [r8] H. Avakian *et al.*, *Hard Exclusive Electroproduction of π^0 and η with CLAS12*, PAC38 Update E12-06-108, 2011.
- [r9] H. Avakian *et al.*, *Deeply Virtual Compton Scattering at 11 GeV with transversely polarized target using the CLAS12 Detector*, A 12 GeV Research Proposal to Jefferson Lab PAC (PAC39), 2012.
- [r10] J. L. Abelleira Fernandez, C. Adolphsen, P. Adzic, A. N. Akay, H. Aksakal, J. L. Albacete, B. Allanach and S. Alekhin *et al.*, *A Large Hadron Electron Collider at CERN*, arXiv:1211.4831 [hep-ex].
- [r11] J. L. Abelleira Fernandez *et al.* [LHeC Study Group Collaboration], *On the Relation of the LHeC and the LHC*, arXiv:1211.5102 [hep-ex].
- [r12] Y. Hatta *et al.*, *Probing Nucleons and Nuclei in High Energy Collisions: Dedicated to the Physics of the Electron Ion Collider*, INT program, Seattle (WA), United States, October 1 - November 16, 2018, arXiv:2002.12333 [hep-ph].
- [r13] S. Klein *et al.*, *New opportunities at the photon energy frontier*, Snowmass2021 - Letter of Interest, arXiv:2009.03838 [hep-ph].

- [r14] P. Agostini *et al.* [LHeC Collaboration and FCC-he Study Group], *The Large Hadron-Electron Collider at the HL-LHC*, J. Phys. G 48 (2021) 11, 110501, arXiv:2007.14491 [hep-ex].
- [r15] R. Abdul Khalek *et al.*, *Science Requirements and Detector Concepts for the Electron-Ion Collider: EIC Yellow Report*, Nucl. Phys. A 1026 (2022) 122447, arXiv:2103.05419 [hep-ex].
- [r16] M. Hentschinski *et al.*, *White Paper on Forward Physics, BFKL, Saturation Physics and Diffraction*, Acta Phys.Polon.B 54 (2023) 3, 3-A2, arXiv:2203.08129 [hep-ph].

Detailed list of oral communications (in chronological order):

see

http://pperso.th.u-psud.fr/page_perso/Wallon/Talks.html

for access to all presentations since 2007.

Oral presentations at international conferences:

- Colloquium “HERA Physics”, Saclay, 19 May 1994.
- Conférence “DIS-1995”, Paris, 27 April 1995.
- Colloque “HERA Physics”, Cambridge, 10 July 1995.
- XXXIèmes Rencontres de Moriond, QCD et les Interactions Hadroniques à Grande Energie, 27 March 1996.
- Colloque “HERA Physics”, Durham, 20 June 1996.
- Workshop “Nouvelles Méthodes Non-Perturbatives et Quantification sur le Cône de Lumière”, Les Houches, 6 March 1997.
- Workshop “HERA Physics”, Madrid, 19 June 1997.
- Workshop “HERA Physics”, Zeuthen, 6 June 1998.
- Workshop “HERA Physics”, Oxford, 7 July 2000.
- Workshop “Low-x Physics”, Nauplie, 4 June 2003.
- Workshop “Collisionneur Linéaire”, Paris, 21 April 2004.
- Workshop “Low-x Physics”, Prague, 17 September 2004.
- Conference Baryon 04, Palaiseau, 27 October 2004.
- Conference “Elastic and Diffractive Scattering”, Blois, 17 May 2005.
- Conference “Photon 2005”, Warsaw, 3 September 2005.
- Conference “Elastic and Diffractive Scattering”, DESY, Hambourg, 22 May 2007.
- *Invited review talk*, Conference “Elastic and Diffractive Scattering”, DESY, Hambourg, 25 May 2007.
- Conference “Photon 2007”, Paris, 9 July 2007.
- Conference Diffraction 2008: International Workshop on Diffraction in High-Energy Physics, La Londe-les-Maures, France, 10 September 2008.
- *Invited review talk*, Conference “Photon 2009”, DESY, Hambourg, 14 May 2009.
- 10th Symposium “Non-Perturbative Quantum Chromodynamics”, IAP, Paris, 10 June 2009.
- 2 talks, “Europhysics Conference on High Energy Physics”, Cracovie, 17 et 18 July 2009.
- 3 talks at the Conference “DIS 2010”, Florence, 21 et 22 April 2010.
- 3 talks at the Conference “ICHEP 2010”, Paris, 22 July 2010 et 23 July 2010.
- European colloquium of the CLAS 12 Collaboration, Paris, 10 March 2011.
- *Review presentation (invited)*, Workshop “30 years of strong interactions”, Spa, 7 April 2011.
- *2 invited talks*, Working group “Forward Physics”, CERN, 22 June 2011.
- Conference EPS 2011, Grenoble, 23 July 2011.
- International colloquium “Nucleon and nucleus structure studies with a LHC fixed-target experiment and electron-ion colliders”, IPN Orsay, 21 October 2011.
- 2012 Annual CMS Workshop on Forward and small-x QCD physics, 31 January 2012.
- International conference QNP 2012, Ecole Polytechnique, 18 April 2012.

- International colloquium “SPRING 2012 AFTER Meeting”, Grenoble, 11 May 2012.
- *Review presentation (invited)*, International Symposium on Multiparticle Dynamics ISMD 2012, Kielce, Pologne, 20 September 2012.
- *Invited talk*, Workshop “Measuring Multiple Partonic Interactions at the LHC” (MPI@TAU) Tel Aviv, 17 October 2012.
- Conference “DIS-2013”, Marseille, 24 et 26 April 2013 (et “*convener*”).
- *Review presentation (invited)*, Conference “Photon 2013”, Paris, 22 May 2013.
- *Invited talk*, Conference “Low-x 2013”, Eilat, 3 June 2013.
- *Invited talk*, Conference “DVCS: From Observables to GPDs”, Bochum, 12 February 2014.
- Conference “DIS-2014”, Warsaw, 30 April 2014.
- *Invited talk*, Colloquium “REF 2014” (Resummation, Evolution, Factorization), Anvers, 9 December 2014.
- Conference “2015 EDS Blois”, Borgo, France, 30 June 2015 (et *co-organisateur et “convener”*).
- “VI International Conference on the "Physics Opportunities at an Electron-Ion Collider" POETIC VI”, Palaiseau, France, 7 September 2015 (et *co-organisateur et “convener”*).
- *Invited talk*, Kick-off of the "RBI-T-WINNING" project, Ruđer Bošković Institute, Zagreb, Croatie, 4 February 2016.
- *Invited talk*, DIFFRACTION 2016, Acireale, Italie, 6 September 2016.
- *Invited talk*, International workshop “Nucleon and Resonances Structure with Hard Exclusive Processes”, IPNO, Orsay, 29 May 2017.
- Workshop "Getting to Grips with QCD", Paris, 4 April 2018 (et *co-organisateur*).
- *Invited talk*, DIFFRACTION-Low x 2018, Reggio Calabria, Italie, 29 August 2018.
- Workshop "Getting to Grips with QCD", Primošten, 20 September 2018 (et *co-organisateur*).
- *Review presentation (invited)*, International workshop “Towards accuracy at small x”, Higgs Centre for Theoretical Physics, Edimbourg, 12 September 2019.
- 2 contributions at the Conference “LC 2019”, Palaiseau, 16 et 17 September 2019.
- *General Introduction (invited)*, Workshop "Prospects on various aspects of the dilepton probe in hadronic physics", IJCLab, Orsay, 25 November 2021.
- *Review presentation (invited)*, DIFFRACTION-Low x 2022, Corigliano Calabro, Italie, 25 September 2022.
- *Review presentation (invited)*, REVSTRUCTURE, Zagreb, Croatie, 11 July 2023.
- Conférence “DIS-2024”, Grenoble, 9 April 2024.
- *Invited talk*, Conference “DIFFRACTION-Low x 2024”, Trabia, Palerme, Sicily, 10 September 2024.
- *Invited talk*, Conference “REF 2012” (Resummation, Evolution, Factorization), Gif-sur-Yvette, 15 October 2024.

Oral presentations at national workshops and laboratory seminars:

- Rencontres Nationales de Physique des Particules, Montpellier, 13 October 1994.
- Young researchers’ days, Carry-Le Rouet, 12 décembre 1994.
- Thursday courses, Service de Physique des Particules, Saclay, 2 février 1995.
- Seminar of the ” Groupe Conforme”, Saclay, 23 May 1995.
- Thesis Day, Saclay, 1 June 1995.
- Weekly seminar, Saclay, 6 February 1996.

- Thesis Day, Saclay, 14 May 1996.
- SPhT Colloquium, Colleville, Normandie, 25 September 1996.
- Seminar of the “High Energy Theoretical Physics Group”, DESY, 25 November 1996.
- Seminar of the “Hadronic Final State Group”, collaboration H1, DESY, 3 décembre 1996.
- Weekly seminar, Annecy, 28 February 1997.
- Monday seminar, IPN Orsay, 24 March 1997.
- Laboratory’s seminar, LPTPE, Paris, 23 April 1997.
- Laboratory’s seminar, LPTPE, Paris, 26 février 1998.
- Presentation of the laboratories of Paris 6 University, 12 January 1999.
- Leading a working group on small- x physics, LPTPE January-March 1999.
- Series of 2 seminars at l’Ecole Polytechnique and at IPN, 25 January 2001 and 1 February 2001
- Invited seminar at the Congrès de la Société Française de Physique, Strasbourg, 12 July 2001.
- Particle Physics Seminar, SPhT Saclay, 30 March 2005.
- Join seminar IPN-CPhT, Orsay, 16 October 2008.
- Series of lectures at the “GDR Nucléon”, SPhN, Saclay, 8-11 December 2008.
- Particle Physics Seminar, LPT, Orsay, 22 January 2009.
- Meeting of particle physicists, Ecole Polytechnique, Palaiseau, 24 March 2009.
- P2I report “Interaction forte et matière dans les états extrêmes”, IAP, Paris, 4 February 2010.
- Mini colloquium of IPhT Saclay, 16 May 2010.
- Review presentation (invited), assemblée plénière du GDR Nucléon, Saclay, 26 November 2010.
- ANR colloquium, Strasbourg, 24 March 2011.
- General seminar (invited) of IPN, 4 April 2011.
- Seminar (invited) “High Energy Physics”, Dept. of Physics and Astronomy, University College, Londres, 15 April 2011.
- Annual General Meeting du GDR-PH-QCD annual meeting 2012, IPN, Orsay, 7 December 2012.
- Particle Physics Meeting 2013, Grenoble, 16 January 2013.
- LPTHE’s seminar, Paris, 12 April 2013.
- Seminar (invited) IPN-X, Orsay, 30 April 2013.
- Seminar (invited) of SPhN, Saclay, 11 October 2013.
- Newcomers’ Day seminar, LPT, Orsay, 18 October 2013.
- Invited talk, Heavy-Ions Meeting, IPhT, 23 March 2016.
- Invited talk, Colloque de Recherche Inter Ecoles Centrales et CentraleSupélec CRIEC 2016, Centrale Paris, Chatenay-Malabry, 15 June 2016.
- Workshop “Partons and Nuclei” du GDR QCD, IPNO, Orsay, 1er June 2017.
- Particle Physics Meeting, Paris, 11 April 2018.
- Annual General Meeting of the GDR QCD, Palaiseau, 27 November 2018.
- Invited talk “Panorama Théorique”, Exercice de prospective nationale - Séminaire Thématique du GT03 - Physique hadronique, Nantes, 2 March 2020.
- “Café théorie”, IJCLab, Orsay, 19 June 2020.