

Samuel WALLON

Publications et communications

total INSPIRES : 9000+ citations, hHEP=42; published : 5700+ citations, hHEP=36.

voir liste complète sur INSPIRES :

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

sur Google Scholar :

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

Tableau récapitulatif :

166 publications dont :

- **58 articles dans des revues internationales à comité de lecture** (+1 soumis)
- 91 conférences internationales à comité de lecture et actes publiés
- 17 rapports techniques, propositions d'expériences, synthèses.

106 communications orales dont :

- 63 communications à des ateliers et conférences internationales
- 43 communications à des ateliers nationaux ou séminaires de laboratoire

1 film de vulgarisation

Liste détaillée des publications (par ordre chronologique) :

Articles dans des revues internationales à comité de lecture :

- [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.
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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.
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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.
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[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], soumis à PRL.

Conférences internationales à comité de lecture et actes publiés :

- [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].
- [c4] B. Pire, L. Szymanowski et S. Wallon, *Hard Exclusive QCD Processes at the Linear Collider*, International Conference on Linear Colliders, LCWS 04, 19-23 avril 2004, Paris, Editions de L'Ecole Polytechnique, vol.I, 335-340 [arXiv :hep-ph/0410108].
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- Conférence « DIS-1995 », Paris, 27 avril 1995.
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- Cours du Jeudi, Service de Physique des Particules, Saclay, 2 février 1995.
- Séminaire du « Groupe Conforme », Saclay, 23 mai 1995.
- Journée des Thèses, Saclay, 1er juin 1995.
- Séminaire hebdomadaire, Saclay, 6 février 1996.

- Journée des Thèses, Saclay, 14 mai 1996.
- Colloque du SPhT, Colleville, Normandie, 25 septembre 1996.
- Séminaire du « High Energy Theoretical Physics Group », DESY, 25 novembre 1996.
- Séminaire du « Hadronic Final State Group », collaboration H1, DESY, 3 décembre 1996.
- Séminaire hebdomadaire, Annecy, 28 février 1997.
- Séminaire du lundi, IPN d'Orsay, 24 mars 1997.
- Séminaire du laboratoire, LPTPE, Paris, 23 avril 1997.
- Séminaire du laboratoire, LPTPE, Paris, 26 février 1998.
- Présentation des laboratoires de l'Université Paris 6, 12 janvier 1999.
- Animation d'un groupe de travail sur la physique à petit x au LPTPE de janvier à mars 1999.
- Séries de 2 séminaires à l'Ecole Polytechnique et à l'IPN, 25 janvier 2001 et 1er février 2001
- Séminaire invité au Congrès de la Société Française de Physique, Strasbourg, 12 juillet 2001.
- Séminaire de Physique des Particules, SPhT Saclay, 30 mars 2005.
- Séminaire commun IPN-CPhT, Orsay, 16 octobre 2008.
- Série de cours à l'Ecole GDR Nucléon, SPhN, Saclay, 8-11 décembre 2008.
- Séminaire de Physique des Particules, LPT, Orsay, 22 janvier 2009.
- Rencontre des théoriciens des particules, Ecole Polytechnique, Palaiseau, 24 mars 2009.
- Bilan P2I « Interaction forte et matière dans les états extrêmes », IAP, Paris, 4 février 2010.
- Mini-colloque IPhT Saclay, 16 mai 2010.
- Exposé de revue invité, assemblée plénière du GDR Nucléon, Saclay, 26 novembre 2010.
- Colloque ANR, Strasbourg, 24 mars 2011.
- Séminaire général invité de l'IPN, 4 avril 2011.
- Séminaire invité « High Energy Physics », Dept. of Physics and Astronomy, University College, Londres, 15 avril 2011.
- Assemblée plénière du GDR-PH-QCD annual meeting 2012, IPN, Orsay, 7 décembre 2012.
- Rencontres de Physique des Particules 2013, Grenoble, 16 janvier 2013.
- Séminaire du LPTHE, Paris, 12 avril 2013.
- Séminaire invité IPN-X, Orsay, 30 avril 2013.
- Séminaire invité du SPhN, Saclay, 11 octobre 2013.
- Séminaire à la Journée des entrants, LPT, Orsay, 18 octobre 2013.
- Exposé invité, Heavy-Ions Meeting, IPhT, 23 mars 2016.
- Exposé invité, Colloque de Recherche Inter Ecoles Centrales et CentraleSupélec CRIEC 2016, Centrale Paris, Chatenay-Malabry, 15 juin 2016.
- Atelier "Partons and Nuclei" du GDR QCD, IPNO, Orsay, 1er juin 2017.
- Rencontre de Physique des Particules, Paris, 11 avril 2018.
- Assemblée plénière du GDR QCD, Palaiseau, 27 novembre 2018.
- Exposé invité « Panorama Théorique », Exercice de prospective nationale - Séminaire Thématique du GT03 - Physique hadronique, Nantes, 2 mars 2020.
- Café théorie, IJCLab, Orsay, 19 juin 2020.
- Exposé invité, CMS seminar, InterUniversity Institute for High Energies, Bruxelles, Belgique, 12 février 2025.

Film : (vulgarisation) « **Les mystères du proton** », CEA/IRFU et IJCLab

<https://www.youtube.com/watch?v=8iuBwdBxp3M>