WALLON Samuel

Civil status:

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Date of birth: Nationality: Marital status:	15 October 1969 in Boulogne sur Mer. French Married, four children
Status:	Professor Paris-Saclay University (Physics Depart., section 29).
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Cursus:	
1989-1992:	Ecole Polytechnique. Internship at SPhT (CEA Saclay) with Alain Billoire, André Morel, Vincent Pasquier (on Potts model) <i>Physics prize of Ecole Polytechnique</i> . Graduated from Ecole Polytechnique, Palaiseau, 1992.
1992-1993:	DEA (Master) of Theoretical Physics, Ecole Normale Supérieure, Paris, 1993. Internship at Institut d'Astrophysique de Paris with Robert Mochkovitch (on gamma burst in GR).
1993-1996:	PhD student at SPhT (CEA Saclay). Defended 17 September 1996 (Orsay University), <i>Congratulations from the jury</i> (highest distinction).
2009:	Habilitation to conduct research (HDR), the highest degree in French university system. Defended 8 December 2009 (Orsay University).
Professional exp	perience:
1996-1997:	Humboldt fellow, Institut für Theoretische Physik II, Hamburg University (DESY) with Jochen Bartels.
1997-2020: 1997-1998: 1998-2000: 2001-2019: 2012-2020:	Associate Professor, Pierre et Marie Curie University (UPMC). Permanent member of IPN's Theoretical Physics Division (Orsay and its Paris branch (LPTPE)). Permanent member of LPNHE/LPTPE, visitor at LPTMS and then at LPT (Orsay). Permanent member of LPT (Orsay). Senior Associate Professor.
Since 2020:	Head of IJCLab's Theoretical Physics Division. Professor at Paris-Saclay University (promoted 1 st class in 2024)
Teaching experi	ience:
1993-1996:	Physics lecturer, Orsay University. Math examiner, Lycée Janson de Sailly.
1997-2020: Bachelor:	Associate Professor in physics (UPMC, now Sorbonne University). Tutorials, Lab work in various bachelor levels.
Master:	Tutorials (Master 1 UPMC) and lectures (Master 1 of the Ecole Normale Supérieure, Paris and UPMC). Tutorials (Master 2 ICFP of Theoretical Physics at Ecole Normale Supérieure, Paris).

Lectures (Master 2 ICFP of Theoretical Physics at Ecole Normale Supérieure, Paris, and Master 2 NPAC at Orsay.

- PhD: Winter school of the "GDR Nucléon" (French research network). Four series of lectures at the Doctoral Schools ED 107 and ED 517. Lectures at the Zagreb School on Theoretical Physics.
- Since 2020: Professor at Paris-Saclay University. Lectures/tutorials in double degree Math/Phys. (1st year) and double degree Phys./Chemistry (3rd year). Tutorials in 2nd year: physics degree, engineering "Polytech" degree ; preparation for selective exams. Bachelor: Lectures/tutorials in Master 1 General Physics and Erasmus Mundus Lascala. Master: Lectures in Master 1 Physics at the Ecole Normale Supérieure, Paris-Saclay and Paris-Saclay University.

Responsibilities and management:

Referee:	Physical Review Letters, Physical Review D, Phys. Lett. B, Nuclear Physics B, European Physical Journal C, JHEP, Progress in Particle and Nuclear Physics, Few-Body Systems, Mod. Phys. Lett. A.
Expertise:	ERC Starting Grant, CEA-Eurotalents (France), National Science Centre (Poland), National Fund for Scientific and Technological Development (Chili).
Organization:	Member of the <i>International Advisory Committee</i> of <i>Baryon 2013</i> and <i>Baryon 2016</i> . <i>Convener</i> of the session <i>Small-x, Diffraction and Vector Mesons</i> session, <i>DIS 2013</i> . Co-organizer of 12 workshops and international conferences, of 4 national workshops and conferences. Founder and Chair of 5 international schools « QCD » at Orsay (2012, 2014, 2016, 2018, 2025).
Project management:	<i>PI</i> of 3 projects PHC-Polonium France/Poland (2011-2012, 2016-2017, 2019-2021). <i>PI of the</i> PEPS-PTI (2013-2014) « PHENO-DIFF » and PRC CNRS-SIBERIE (2013) « DIFF-QCD ». <i>PI</i> of the ANR <i>Dense-QCD</i> (2006-2010). <i>Head of</i> LPT's team of the ANR <i>PARTONS</i> (2013-2016).
Research management:	Scientific animator of the Paris-Saclay GIS « La Physique des deux Infinis » (P2I) (2008-2011). Member of the Board and Selection Committee of the <i>Labex</i> P2IO (2013-2014). <i>Deputy head of the</i> French national network <i>GDR PH-QCD</i> ; coord. of « hadron 3D » (2011-2014). <i>Head of the French national network GDR QCD</i> (2016-2020).
Management:	 Member of the <i>Expert Commission</i> of the 29th section of Orsay University (2001-2004). Member of the LPT's <i>Laboratory Council</i> (2010-2019). Member of the working group <i>Physics of the 2 infinities</i> for the future Paris-Saclay University (2013). Member of the <i>Enlarged Scientific Council of the Faculty of Physics</i> of UPMC (2013-2018). Member of the DPhN's Scientific Council (CEA/IRFU) (2014-2018). Member of the <i>Labex P2IO Board of Directors</i> (2015-2019). Member of the <i>Teaching Council</i> of Faculty of Physics of UPMC (2015-2017). Paris-Saclay correspondent for the Master 2 Theoretical Physics ICFP, ENS Paris (2016-). Elected member of the <i>CNRS national evaluation and hiring committee, section 02</i> (2016-2021). <i>Co-leader of the merging project</i> CSNSM-IMNC-IPNO-LAL-LPT towards IJCLab (2018-2019). <i>Associate Scientific Director of IJCLab</i>, Head of the Theoretical Physics Division (1/1/2020-). Member of the Council of the Physics Graduate School of Paris-Saclay (2021-). Elected member of the <i>Specialist Advisory Board</i>, Paris-Saclay University, sections 29-34 (2022-). Member of the Board of Directors of the Doctoral School STFCM of Cosenza University (2022-).
Recruitment panels:	Invited external member of the CNRS hiring committee, section 01 (2017). Associate professor hiring committees, Tours Univ. (2018) and Nantes Univ. (2022). Hiring committee for a professor position, Paris-Saclay University (2021).
Other panels:	Oral examiner for the entrance competition to the French Ecoles Normales Supérieures (2006-2012). Thesis and HDR thesis committee (not counting my own students): 12 PhDs and 3 HDR. 3 rd year committee, ENS d'Architecture de Paris Malaquais (2015). Various Master committees.
Mentoring:	
Master:	M1: F. Nortier (14), F. Wade (15), S. Verma, I. Soudi (16), R. Lefèvre (18), A. Goudeau (22), S. Mandal (24) M2: B. Ducloué (11), L. Leduc (12), R. Boussarie (13), E. Li (20), F. Buttafuoco, J. Yarwick (23), D. Perez (24).
PhDs :	M. Segond (04-07), M. El Beiyad (07-10), A. Besse (10-13), B. Ducloué (11-14), R. Boussarie (13-16), E. Li (20-23), J. Yarwick (23-), D. Perez (24-); 3 long PhD internships: A. Perri (13), M. Fucilla (21-23), G. Gatto (23).
Post-Docs:	 F. Schwennsen (08-09), G. Chirilli (09-10), K. Semenov (09-11), C. Lorcé (11-13), L. Almeida (12-13), V. Vila (21), S. Nabeebaccus (21-24), C. Flett (22-24), J-M. Morgado Chavez (22-24).
Outreach:	Film "Les mystères du proton" (CEA/IRFU/DPhN and IJCLab) (2024)
Scientific work:	160 publications (INSPIRE : 8700+ citations, hHEP=41) among which :

- 56 articles in peer-reviewed journals (+3 submitted).

- 89 articles in peer-reviewed conference proceedings and other conference papers.
- 16 technical reports and experience proposals.

Awards: Research investment bonus (Sorbonne Université, 2010-2020); RIPEC-C3 bonus (Paris-Saclay, 2022-).

Research topics: particle physics, hadronic physics

- Unitarization and gluonic saturation in high-energy QCD.

- QCD phenomenology in the perturbative Regge limit.
- Exclusive medium and high-energy processes: multidimensional nucleon tomography, spin physics.
- Factorization of hard processes: proofs, radiative corrections, power corrections, threshold resommations.
- Non-perturbative methods: AdS/QCD matching, quasi and pseudo distributions on the lattice.