

Pierre Jacques Vanhove

Research engineer

Institut de Physique Théorique

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PROFESSIONAL PREPARATION

Université Pierre & Marie Curie, France, Habilitation, theoretical physics, 2007

École polytechnique, Palaiseau, France, PhD, theoretical physics, 1998

École normale supérieure of Paris, France, Agrégation de mathématiques, 1995

École normale supérieure of Paris, France, MS, 1994

École normale supérieure of Paris, France, BS, 1992

APPOINTMENTS

Director of research, IHÉS, Bures-sur-Yvette, France, 2008-present

Research fellow, Theory Division, CERN, Switzerland, 2001-2003

Research engineer, Institut de physique théorique, CEA, France, 2000-present

Researcher, DAMTP, University of Cambridge, England, 1998-2000

FELLOWSHIPS, AWARDS, AND SCHOLARSHIPS

2015: Honorable Mention in the Awards for Essays in Gravitation by the Gravity Research Foundation

2013: Grand prix Mergier-Bourdeix de l'Académie des Sciences (French Academy of Sciences prize)

2009: Honorable Mention in the Awards for Essays in Gravitation by the Gravity Research Foundation

1998: Thesis price from the École polytechnique (France)

SYNERGISTIC ACTIVITIES 2015-now: Reviewer for Math reviews

2014 - now: Member of the scientific committee of the Laboratoire d'Excellence Jacques Hadamard

2013- now : Member of the editorial board of JHEP

2012 - 2014: Member of the editorial board of European Journal of Physics C section Gravitation, Astroparticle Physics and Cosmology, General Aspects of Quantum Field Theories and Alternatives

2008 - now: member of the scientific committee of IHÉS

2008 - 2012: Member of the CNRS national committee section 02 theoretical physics

2008: Member of the LHC safety committee for the Autorité de Sûreté Nucléaire : co-author of a safety report for the French government

2005 - 2009: Coordinator of the iPhT sub-node for the European Network Forces Universes

10 RECENT RELEVANT PUBLICATIONS (of 63 total)

P. Tourkine and P. Vanhove, An R^4 non-renormalisation theorem in $N = 4$ supergravity, *Class. Quant. Grav.* 29 (2012) 115006

N. E. J. Bjerrum-Bohr, P. H. Damgaard, T. Sondergaard and P. Vanhove, The Momentum Kernel of Gauge and Gravity Theories, *JHEP* 1101 (2011) 001

N. E. J. Bjerrum-Bohr, P. H. Damgaard, T. Sondergaard and P. Vanhove, Monodromy and Jacobi-like Relations for Color-Ordered Amplitudes, JHEP 1006 (2010) 003
M. B. Green, J. G. Russo and P. Vanhove, String theory dualities and supergravity divergences, JHEP 1006 (2010) 075
S. Badger, N.E.J. Bjerrum-Bohr and P. Vanhove, Simplicity in the Structure of QED and Gravity Amplitudes, JHEP 0902 (2009) 038
N. E. J. Bjerrum-Bohr, P. H. Damgaard and P. Vanhove, Minimal Basis for Gauge Theory Amplitudes, Phys. Rev. Lett. 103 (2009) 161602
N. E. J. Bjerrum-Bohr and P. Vanhove, Absence of Triangles in Maximal Supergravity Amplitudes, JHEP 0810 (2008) 006
M. B. Green, J. G. Russo and P. Vanhove, Ultraviolet properties of maximal supergravity, Phys. Rev. Lett. 98 (2007) 131602
M.B. Green, J.G. Russo and P. Vanhove, Non-renormalisation conditions in type II string theory and maximal supergravity, JHEP 0702 (2007) 099
M. B. Green and P. Vanhove, Duality and higher derivative terms in M theory, JHEP 0601 (2006) 093

SCIENTIFIC COLLABORATORS

Michael B Green, DAMTP University of Cambridge, UK
Niels Emil Jannik Bjerrum-Bohr, Niels Bohr Institute, Copenhagen, Denmark
Poul Henrik Damgaard, Niels Bohr Institute, Copenhagen, Denmark
Stephen D Miller, University of Rutgers, USA
Spencer J Bloch, University of Chicago, USA

UNDERGRADUATE AND GRADUATE ADVISORS

Ludovic Planté, PhD advisor, IPhT, CEA, 2013 - present
Simon Dumas Primbault, MS internship advisor, Ecole polytechnique, 2013
Valentin Assassi, MS internship advisor, École Centrale, Paris, 2010
Piotr Tourkine, PhD advisor, IPhT, CEA, 2010-2014
Piotr Tourkine, MS internship advisor, Ecole normale supérieure, Paris, 2010
Quentin Pierre, MS internship advisor, Ecole normale supérieure, Lyon, 2010
Yann Michel, PhD advisor, IPhT, CEA, 2004-2006

CURRENT GRANTS

2014-2017: Franco-Danish collaborative grant (PICS) (Principal investigator)
2012-2015: ANR grant Quantum properties of supersymmetric theories
2012-2015: Franco-Russian collaborative grant (PICS) (Principal investigator)
2010: Franco-Danish collaborative grant attributed by the French Embassy in Copenhagen (Principal investigator)
2008: France-MIT collaborative grant
2006-2009: ANR grant flux vacua, black holes and topological strings