PELOTON Julien

Date of Birth: 3rd November 1988 Country of Citizenship : France

Laboratoire AstroParticule et Cosmologie, Université Paris Diderot

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Bat. Condorcet, Case 7020 $75205~\mathrm{PARIS}~\mathrm{Cedex}~13$

FRANCE

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Curriculum Vitae

Education

2012-(2015)	Graduate student in Cosmology with Dr. Radek Stompor - Laboratoire AstroParticule et Cosmologie (APC) at the University Paris 7 - Denis Diderot, Paris Data analysis and Scientific Exploitation of data sets of the CMB B-mode experiment, POLARBEAR.
2011-2012	Master 2 Nuclear, Particle, Astroparticle and Cosmology (NPAC) - Université Paris-Sud XI, Orsay, France Year of specialization: Cosmology. Obtained with distinctions.
2010-2011	Master 1 - Imperial College University, London, UK Physics, ERASMUS exchange.
2009-2012	Licence, Master and Magistère in Fundamental Physics - $Universit\'e$ Paris-Sud XI , $Orsay$ $Equivalent$ to Bsc and Msc + 1. Obtained with distinctions.
2006-2009	Preparatory classes for competitive examinations (CPGE) in Physics - Marcelin Berthelot, Saint-Maur-des-Fossés (France) PCSI/PSI

Research history

2012-Present	Data analysis and Scientific Exploitation of data sets of the CMB B-mode experiment, POLARBEAR APC, Université Paris 7 Regular visits to University of California, Berkeley (Berkeley Cosmology group and LBNL). Advisor : Dr. R. Stompor
2010-2011	BPS Brane in Supergravity - Physics Department, The Blackett Laboratory, Imperial College, London, UK Advisor : Prof. K. Stelle
2010 (2 months)	Non-gaussianities in the CMB - Laboratoire de Physique Théorique d'Orsay, Université Paris XI Advisor : Prof. Bartjan van Tent

Teaching

2012 -- 2015Teaching assistant at Université Paris Diderot :

> $2012\text{-}2015: \mathbf{Physics}$ for 1st year at Medical School 2013: Differential equation for 2nd year in Biology

2012: Office automation and basics in computer science for 1st year in

Physics

Refereed Journal Articles

pround B-Mode Polarization Power Spectrum at Sub-Degree Scale FOLARBEAR - ApJ, 794, 171 Polarbear Collaboration: Measurement of the Cosmic Microwave ground Polarization Lensing Power Spectrum with the POLARBEA Periment - Phys. Rev. Lett. 113, 021301 2014 Polarbear Collaboration: Evidence for Gravitational Lensing of the mic Microwave Background Polarization from Cross-correlation with Cosmic Infrared Background - Phys. Rev. Lett. 112, 131302 Conference Proceedings 2014 Peloton, J. et al.: POLARBEAR experiment: Data analysis of the first season from the special part of the 49th Rencontres de Moriond 2014 Fabbian, G. et al.: The POLARBEAR experiment: first season result beyond - The proceedings of the 49th Rencontres de Moriond 2014 Barron, D. et al.: The POLARBEAR cosmic microwave background polition experiment - J. Low Temperature Physics, 2014 2014 Nishino, H. et al.: POLARBEAR CMB Polarization Experiment - JPS Cont., 0/3107 (2014) 2014 Arnold, K. et al.: The SIMONS ARRAY: expanding POLARBEAR to three chroic telescopes - Society of Photo-Optical Instrumentation Engineers (SPIE) rence Series, 9153 2014 Inoue, Y. et al.: Thermal and optical characterization for POLAR Optical Series, 9153 2014 Barron, D. et al.: Development and characterization of the readoutern for POLARBEAR-2 - Society of Photo-Optical Instrumentation Engineers Conference Series, 9153 In preparation 2014 A. Ferte, J. Peloton, J. Grain and R. Stompor: Detecting the tensor-to-ratio with the pure pseudospectrum reconstruction of B-mode - in Talks August 2014 Collaboration meeting - San Diego, CA, USA Map-making and power spectrum estimation May 2014 Cosmology seminar, IAS - Orsay, France POLARBEAR experiment: Results from the first observational campaign ar racterization of systematic instrumental effect. May 2014 Astronomical Polarimetry (ASTROPOL) 2014 - La Thuile, Italy Poster: POLARBEAR experiment: Data analysis of the first season March 2014 Rencontres de Moriond, Cosmology 2014 - La Thuile, Italy Poster: POLARBEAR experiment:	iterereed bourn	RI TI DICIOS
ground Polarization Lensing Power Spectrum with the Polarber periment - Phys. Rev. Lett. 113, 021301 2014 Polarbear Collaboration: Evidence for Gravitational Lensing of the mic Microwave Background Polarization from Cross-correlation with Cosmic Infrared Background - Phys. Rev. Lett. 112, 131302 Conference Proceedings 2104 Peloton, J. et al.: Polarbear experiment: Data analysis of the first season of the 49th Rencontres de Moriond 2014 Fabbian, G. et al.: The Polarbear experiment: first season result beyond - The proceedings of the 49th Rencontres de Moriond 2014 Barron, D. et al.: The Polarbear cosmic microwave background polition experiment - J. Low Temperature Physics, 2014 2014 Nishino, H. et al.: Polarbear Comb Polarization Experiment - JPS Cond., 013107 (2014) 2014 Arnold, K. et al.: The Simons Array: expanding Polarbear to three chroic telescopes - Society of Photo-Optical Instrumentation Engineers (SPIE) rence Series, 9153 2014 Indue, Y. et al.: Thermal and optical characterization for Polarbear optical system - Society of Photo-Optical Instrumentation Engineers (SPIE) Conderence Series, 9153 2014 Barron, D. et al.: Development and characterization of the readoutem for Polarbear-2 - Society of Photo-Optical Instrumentation Engineers (SPIE) Conderence Series, 9153 In preparation 2014 A. Ferte, J. Peloton, J. Grain and R. Stompor: Detecting the tensor-to-ratio with the pure pseudospectrum reconstruction of B-mode - in Talks August 2014 Collaboration meeting - San Diego, CA, USA Map-making and power spectrum estimation May 2014 Cosmology seminar, IAS - Orsay, France Polarbear Rexperiment: Results from the first observational campaign ar racterization of systematic instrumental effect. May 2014 Astronomical Polarimetry (ASTROPOL) 2014 - Grenoble, France Contributed talk: POLARBEAR experiment: data analysis and results of the sesson March 2014 Rencontres de Moriond, Cosmology 2014 - La Thuile, Italy Poster: POLARBEAR experiment: Data analysis of the first season July 2013 ICTP: New light in c	2014	Polarbear Collaboration: A Measurement of the Cosmic Microwave Background B-Mode Polarization Power Spectrum at Sub-Degree Scales with POLARBEAR - ApJ, 794, 171
mic Microwave Background Polarization from Cross-correlation with Cosmic Infrared Background - Phys. Rev. Lett. 112, 131302 Conference Proceedings 2104 Peloton, J. et al.: POLARBEAR experiment: Data analysis of the first season from the proceedings of the 49th Rencontres de Moriond 2014 Fabbian, G. et al.: The POLARBEAR experiment: first season result beyond - The proceedings of the 49th Rencontres de Moriond 2014 Barron, D. et al.: The POLARBEAR cosmic microwave background pol tion experiment - J. Low Temperature Physics, 2014 2014 Nishino, H. et al.: POLARBEAR CMB Polarization Experiment - JPS Con 1, 013107 (2014) 2014 Arnold, K. et al.: The SIMONS ARRAY: expanding POLARBEAR to three chroic telescopes - Society of Photo-Optical Instrumentation Engineers (SPIE) rence Series, 9153 2014 Inoue, Y. et al.: Thermal and optical characterization for POLARB polical system - Society of Photo-Optical Instrumentation Engineers (SPIE) Con Series, 9153 2014 Barron, D. et al.: Development and characterization of the readout tem for POLARBEAR-2 - Society of Photo-Optical Instrumentation Engineers (Conference Series, 9153) In preparation 2014 A. Ferte, J. Peloton, J. Grain and R. Stompor: Detecting the tensor-to-ratio with the pure pseudospectrum reconstruction of B-mode - in Talks August 2014 Collaboration meeting - San Diego, CA, USA Map-making and power spectrum estimation May 2014 Cosmology seminar, IAS - Orsay, France POLARBEAR experiment: Results from the first observational campaign ar racterization of systematic instrumental effect. May 2014 Astronomical Polarimetry (ASTROPOL) 2014 - Grenoble, France Contributed talk: POLARBEAR experiment: data analysis and results of the season March 2014 Rencontres de Moriond, Cosmology 2014 - La Thuile, Italy Poster: POLARBEAR experiment: Data analysis of the first season July 2013 ICTP: New light in cosmology from the CMB - Trieste, Italy Contributed talk: Exploring CMB polarization with POLARBEAR	2014	Polarbear Collaboration: Measurement of the Cosmic Microwave Background Polarization Lensing Power Spectrum with the POLARBEAR experiment - Phys. Rev. Lett. 113, 021301
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June 2013 LPTHE - Université Paris 6 - Jussieu France	July 2013	
Exploring CMB polarization with POLARBEAR	June 2013	LPTHE - Université Paris 6 - Jussieu, France Exploring CMB polarization with POLARBEAR

Awards and Honors

2012

PhD Fellowship from the French Ministry of Education and Research and awarded by the Graduate school Particles, Nuclei and Cosmology (PNC) and by the University Paris 7 - Denis Diderot.

Administrative responsibility

 $2013\hbox{-}2015$

Elected as the representative of the graduate students to the laboratory council.