

## PIERRE AGOSTINI

Professor of Physics  
Department of Physics  
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## EDUCATION

Prytanée Militaire La Flèche, Baccalauréat Mathématiques Élémentaires, 1959  
Université Aix-Marseille, Licence d'Enseignement en Physique, 1961  
Université Aix-Marseille, Diplôme d'Etudes Approfondies, 1962  
Université Aix-Marseille, Doctorat d'Université d' Aix-Marseille, 1968  
Centre d'Etudes de Saclay, Assoc. Researcher, 1969

## PROFESSIONAL EMPLOYMENT

Professor of Physics, Ohio State University, 2004-present  
Humboldt Fellow, Max Born Institute, Berlin, 2004/2005  
Joop Los Fellow, FOM Amsterdam, 2003/2004  
Visiting Scientist, BNL, 2003-present  
Visiting Professor, Université Laval Physics Department, 2002/2003  
Scientific Advisor, CEA Saclay/DSM 2002/2003  
Director of Research, CEA Saclay/DRECAM/SPAM, 1999/2002 (retired)  
Expert Senior, CEA Saclay/DRECAM/SPAM, 1996/1999  
Visiting Scientist, FOM Amsterdam, 1996/1997  
Researcher, CEA Saclay, 1977/1996  
Visiting Assistant Professor, University of Southern California, 1976/1977  
Researcher, CEA Saclay, 1969/1976

## HONORS AND AWARDS

2007 OSA William Meggers Prize  
2003 Humboldt Fellowship, Germany  
2003 Joop Los Fellowship, The Netherlands  
1995 Prix Gustave Ribaud de l'Académie des Sciences (discovery of above-threshold ionization)

## ACTIVITIES

LCLS Review Panel Member (2010-present)  
EEC programs for training and mobility

## LIST OF PUBLICATIONS (OVER 230 PUBLICATIONS TOTAL)

1. S. Ghimire *et al.*, “Redshift in the optical absorption of ZnO single crystals in the presence of an intense midinfrared field”, *Phys. Rev. Lett.* **107**, 167407 (2011).
2. E. Power *et al.*, “XFROG phase measurement of threshold harmonics in a Keldysh-scaled system”, *Nat. Photonics* **4**, 352-356 (2010).

3. C. I. Blaga, F. Catoire, P. Colosimo, G. G. Paulus, H. G. Muller, P. Agostini and L. F. DiMauro, “*Strong field photoionization revisited*”, Nat. Phys. **5**, 335-338 (2009).
4. P. Colosimo *et al.*, “*Scaling strong-field interactions towards the classical limit*”, Nat. Phys. **4**, 386-389 (2008).
5. P. Agostini and L. F. DiMauro, “*Atoms in high intensity mid-infrared pulses*”, J. Phys. **49**, 179-197 (2008).

#### **FIVE OTHER PUBLICATIONS**

1. G. Doumy *et al.*, “*Nonlinear atomic response to intense ultrashort x-rays*”, Phys. Rev. Lett. **106**, 083002 (2011).
2. J. Tate, T. Augustine, H. G. Muller, P. Salieres, P. Agostini and L. F. DiMauro, “*The scaling of wave packet dynamics in an intense mid-infrared field*”, Phys. Rev. Lett. **98**, 013901 (2007).
3. P. M. Paul *et al.*, “*Enhanced high harmonic generation from an optically prepared excited medium*” Phys. Rev. Lett. **94**, 113906 (2005).
4. Y. Mairesse, A. Bohan, L. J. Frasinski, H. Merdji, L. C. Dinu, P. Monchicourt, P. Breger, M. Kovacev, B. Carré, H. G. Muller and P. Agostini, “*Attosecond synchronisation of high-harmonic soft X-rays*”, Science **302**, 1540 (2003).
5. P. M. Paul, E. S. Toma, P. Breger, G. Mullot, F. Audebert, P. Balcou, H. G. Muller, P. Agostini, “*Observation of a train of attosecond pulses from high harmonic generation*”, Science **292**, 1689 (2001).

#### **COLLABORATORS (LAST 5 YEARS)**

C. D. Lin (KSU), T. A. Miller (OSU), L. F. DiMauro (OSU), P. Salières (CEA, France), T. Augustine (Saclay, France), B. Carre (Saclay, France), H. G. Muller (retired), D. Reis (Stanford).

#### **POSTDOCTORAL (UNDERLINE) AND GRADUATE STUDENT ADVISOR**

Gilles Doumy (ANL), Cosmin Blaga (OSU), Junliang Xu (OSU), Hui Xiong (OSU), Hyunwook Park (OSU), Stephen Schoun (OSU), Marco Lai (OSU).