

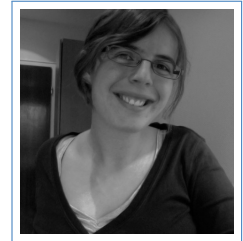
Flora Cellier-Holzem

Doctor
27 years old

9 rue de la Vistule
75013 Paris
FRANCE

+33 (0)607388427
✉ cellier@lpnhe.in2p3.fr

🌐 <http://supernovae.in2p3.fr/~cellier>



Curriculum Vitae

Education

- 2010-2013 **PhD thesis in cosmology "Spectroscopy of type Ia supernovae with the SuperNova Legacy Survey and Nearby SuperNova Factory experiments for cosmology"**
LPNHE, Pierre et Marie Curie University - Paris 6 FRANCE
▶ defended on October 4th 2013 with highest honours
- 2009-2010 **Postgraduate degree following my master "Nuclei Particles Astroparticles and Cosmology" (NPAC)**
Pierre et Marie Curie University - Paris 6 FRANCE
▶ With honours
Relevant courses : Introduction to cosmology, High energy astrophysics, Basis of modern cosmology, Structures and their evolution, Cosmic rays and high energy astrophysics, Relativity and gravitation
- 2008-2009 **Master's degree in Fundamental Physics**
Pierre et Marie Curie University - Paris 6 FRANCE
▶ With honours
- 2007-2008 **Bachelor's degree in Physics and Engineering**
Rouen University - Rouen FRANCE
▶ With honours
- 2006-2007 **Two-year University degree in Physics and Engineering**
Rouen University - Rouen FRANCE
▶ First class honours
- 2004-2006 **Preparatory classes : two-year undergraduate intensive course in mathematics, physics and chemistry**
Lycée Pierre Corneille (high school) - Rouen FRANCE
- 2004 **Baccalauréat with major in Biology**
Lycée Marcel Sembat (high school) - Sotteville-lès-rouen FRANCE
▶ First class honours

Work Experiences in Physics

- September 2010 **PhD thesis in cosmology "Spectroscopy of type Ia supernovae with the SuperNova Legacy Survey and Nearby SuperNova Factory experiments for cosmology"**
- September 2013 **Legacy Survey and Nearby SuperNova Factory experiments for cosmology"**
LPNHE (UMR 7585 CNRS in2p3), Pierre et Marie Curie University - Paris 6 FRANCE
Advisor : Christophe BALLAND
- May 2010 **Training period "Physical properties of type Ia supernovae : comparison between observed and synthetic spectra"**
- June 2010 **observed and synthetic spectra"**
LPNHE (UMR 7585 CNRS in2p3), Pierre et Marie Curie University - Paris 6 FRANCE
Advisor : Christophe BALLAND

- May 2009 **Training period "Spectral and photometric characterisation of host galaxies of type Ia supernovae (SNLS)"**
 June 2009 *LPNHE (UMR 7585 CNRS in2p3), Pierre et Marie Curie University - Paris 6 FRANCE*
Advisors : Delphine HARDIN and Christophe BALLAND
- May 2008 **Training period "Study of magnetism properties of iron ultra-thin layer"**
 June 2008 *GPM (UMR 6634 CNRS), Rouen University - Rouen FRANCE*
Advisors : Pierre-Emmanuel BERCHE and Catherine BORDEL

Observation Experiences

- September 2010 **Data taking for the SuperNova Factory (SNF) experiment**
 September 2013 *By web from France using the UH-88 telescope in Hawaii*
Mission : spectroscopic and photometric follow up of type Ia supernovae using the SuperNova Integral Field Spectrograph
- August 07 2012 **Data taking for the PESSTO (Public ESO Spectroscopic Survey for Transient Objects) experiment**
 August 27 2012 *New Technology Telescope (NTT) - ESO observatory of La Silla, CHILE*
Mission : spectral observations, identification and optical + NIR spectro-photometric follow up of optical transients using EFOSC2 and SOFI instruments

Talk

Invited speaker

- June 4 2013 **Participation to the annual meeting of French Society of Astronomy & Astrophysics**
 June 7 2013 *Montpellier University - Montpellier FRANCE*
 ► Parallel session : "SuperNova Legacy Survey 5yrs : Final type Ia supernova spectroscopic sample"
- May 26 2013 **25th Rencontres de Blois**
 May 31 2013 *Castel of Blois - Blois FRANCE*
 ► Parallel session : "SuperNova Legacy Survey 5yrs : Final type Ia supernova spectroscopic sample"

Seminars and various talks

- October 9 2013 **Participation to SuperNova Legacy Survey (SNLS) Collaboration Meeting**
 October 11 2013 *LPNHE - Paris FRANCE*
 ► talk "SuperNova Legacy Survey 5yrs : Final type Ia supernova spectroscopic sample"
- March 23 2013 **Participation to SuperNova Factory (SNFactory) Spring Collaboration Meeting**
 March 27 2013 *Tsinghua Center for Astrophysics - Beijing CHINA*
 ► talk by video conference "Spectral evolution with redshift : comparison of SNLS and SNFactory spectra"
- March 21 2012 **Participation to SNLS Collaboration Meeting**
 March 24 2012 *Las Cumbres Observatory Global Telescope (LCOGT) - Santa Barbara USA*
 ► talk "The VLT 5 years data set from the SNLS : Redshift determination and identification of type Ia supernovae"
- December 4 2011 **Participation to "Journées de Rencontre des Jeunes Chercheurs 2011 (JRJC)"**
 December 10 2011 *Annecy FRANCE*
 ► talk "Physical properties of type Ia supernovae with SNLS and SNFactory experiments"
- December 1 2011 **Seminar in the Laboratoire de Physique Nucléaire et des Hautes Énergies (LPNHE)**
Paris FRANCE
 ► "Physical properties of type Ia supernovae with SNLS and SNF experiments"

- October 17 2011 **Participation to SNFactory Autumn Collaboration Meeting**
 October 21 2011 *Physikalisches Institut der Universität Bonn - Bonn GERMANY*
 ► talk "Constraining type Ia supernovae with models"
- March 14 2011 **Participation to SNFactory Spring Collaboration Meeting**
 March 18 2011 *Institut de Physique Nucléaire de Lyon (IPNL) - Lyon FRANCE*
- November 18 2010 **Participation to Berkeley-Paris Meeting "Stage IV supernovae ground-based experiment"**
 November 19 2010 *Lawrence Berkeley National Lab - Berkeley USA*
- November 15 2010 **Participation to SNFactory Collaboration Meeting**
 November 17 2010 *Lawrence Berkeley National Lab - Berkeley USA*
 ► talk "Type Ia supernovae models discrimination by SNLS data : comparison between observed and synthetic spectra"
- June 28 2010 **Participation to XXVIth IAP Annual Colloquium "Progenitors and environments of stellar explosions"**
 July 2 2010 *Astrophysics Institut of Paris (IAP) - Paris FRANCE*

Posters

- March 10 2012 **Participation to the 47th Rencontres de Moriond**
 March 17 2012 *La Thuile - Val d'Aost ITALY*
 ► poster "The VLT 5-year data set from the SuperNova Legacy Survey : Redshift determination and identification of type Ia supernovae"
- June 20 2011 **Participation to the annual meeting of French Society of Astronomy & Astrophysics**
 June 23 2011 *Paris FRANCE*
 ► poster "Constraining type Ia supernova models with SNLS spectra"

Summer School

- August 31 2011 **Participation to Azores School on Observational Cosmology**
 September 6 2011 *University of Azores - Angra do Heroísmo Azores PORTUGAL*
 ► talk "Properties of type Ia supernovae and cosmological applications : Comparison between SNLS / SNFactory observed spectra and models"

Others Work Experiences

- September 2010 **Teaching assistant in Physics**
 June 2013 *Pierre et Marie Curie University - Paris 6 Jussieu FRANCE*
Mission : supervision of tutorial classes and practical works in Classical Physics, Mechanics and Dynamics for two-years Physics degree students
- September 2007 **University administration job**
Rouen University - Rouen FRANCE
Mission : students registration

Professional Skills

Computer skills

Operating system	Mac OS X, Linux (Ubuntu), Windows	Internet	Web, e-mail Thunderbird, Twiki, HTML
Office automation	L ^A T _E X, BEAMER, MicrosoftOffice, OpenOffice, iWork	Programming	Python, ROOT, C++, IRAF, Fortran 77 and 90, Maple

Languages

French	mother tongue	Spanish	basic 2 months in Spain and Chile
English	fluent	Latin	<i>6 years at school</i>

Activities

- 2006-2007 **Theater usher to welcome and seat the members of the audience**
Le Rive Gauche theater - Saint Etienne du Rouvray FRANCE
- 2003-2005 **Photo club**
Jean Prévot community center - Saint Etienne du Rouvray FRANCE
- 2002-2004 **Street theater amateur with the theater company "Cirque Atomique"**
"Viva Cité" festival - Sotteville-lès-rouen FRANCE
- 2000-2004 **Capoera sporting activity**
Jean Prévot community center - Saint Etienne du Rouvray FRANCE
- 1994-1999 **African percussions**
Jean Prévot community center - Saint Etienne du Rouvray FRANCE