

Curriculum Vitae

— Thomas Buchert

Personal Information

- Birth* : August 18th, 1959
Nationality : German
Other Languages : Fluent in English and French (spoken and written) ; Basics in Italian, Spanish and Japanese
Profession : Professor of Cosmology, Exceptional Class 1, at Université Claude Bernard, Lyon, France
Responsibilities and Memberships : Staff member at the Observatory of Lyon, C.R.A.L., Lyon, France
Appointed Member of Scientific Council of O.S.U.L., Lyon, France
Head of ERC-ARThUs group of the AstroENS Team
PI of ERC advanced Grant 'ARThUs'
Master Programme : École Normale Supérieure, Lyon, France
External Collaborator : S.D.S.S. Collaboration
Member of two Euclid groups 'Theory' and 'Clustering'
Member of 4MOST
Adjunct Professor of the Faculty 'ICRA-NET'
Appointed Member of 'Foundational Questions in Physics & Cosmology, F.Q.X.i.'
Advisory Board : Springer, New York 'Multiversal Journeys Book Series'
Advisory Board : Journal 'Universe', MDPI
Coordinates : see ARThUs group page : www.arthus-erc.net/cosmo_en.html
Email : buchert@ens-lyon.fr

Education/Career

- 1966–1978 : Primary and High-School in Villingen-Schwenningen
1978–1984 : Studies of Theoretical Physics at Ludwig-Maximilians-Universität (L.M.U.), Munich
1983–1984 : Diploma thesis at Max-Planck-Institut für Astrophysik (M.P.A.) in Garching
Oct. 26th, 1984 : Diploma in Theoretical Physics (Dipl.-Phys.)
1984–1988 : Ph.D. thesis at M.P.A. in Garching
July 14th, 1988 : Ph.D. in Theoretical Physics (Dr.rer.nat.)
Thesis topic : 'The Pancake Theory of Formation of Supergalactic Structures – Analytical Foundations'; Thesis advisors : Prof. G. Börner and Prof. J. Ehlers
1989–1993 : Habilitation thesis at M.P.A. in Garching
July 13th, 1994 : Ph.D. in Astronomy – Habilitation – (Dr.rer.nat.habil.)
July 18th, 1995 : Lecturer Degree (Priv.-Doz.) at L.M.U. in Munich
Thesis topic : 'Inhomogeneous Newtonian Cosmogony'
2005 : Qualification as University-Professor in France
Sept. 1st, 2007 : Titularisation as University-Professor in France
Sept. 1st, 2012 : Promotion to Professor 1st Class
Sept. 1st, 2017 : Promotion to Professor Exceptional Class 1

Positions

- 1984–1995 : Research Associate at M.P.A. Garching, Germany
- 1995–1997 : Research Associate at L.M.U. Munich, Germany
- 1997–1998 : Research Associate at T.U.M. Garching, Germany
- 1998–1999 : Associated Member of Personnel at C.E.R.N. Geneva, Switzerland
- 1999–2000 : C.O.E. Researcher at National Astronomical Observatory, Tokyo, Japan
- 2001–2006 : Research Associate at T.U.M. Garching, Germany
- SSem 2006 : Chair of Theoretical Physics, University of Bielefeld, Germany
- 1995–2007 : Privat-Dozent at L.M.U. Munich, Germany
- Since 2007 : Professor at Université Lyon 1 ‘Claude Bernard’, Lyon, France

Visiting Positions

- 1988 : Visiting Researcher at N.O.R.D.I.T.A., Copenhagen, Denmark
- 1989–1994 : Visiting Researcher at Observatory of Paris, D.A.E.C., and I.A.P., Paris, France
- 1994 : Guest Scientist at the Aspen Center for Physics, U.S.A.
- 1997 : Visiting Professor at University of Osaka, and Tohoku University Sendai, Japan
- 1997 : Visiting Professor at Kansas University, Lawrence, U.S.A.
- 1999/2000 : Tomalla Visiting Professor at University of Geneva, Switzerland
- 1999–2000 : Visiting Professor at Tohoku University Sendai, Japan
- 2000 : Visiting Professor at Tokyo Institute of Technology, Japan
- 2000–2012 : Visiting Professor at University of Pavia, Italy
- 2001 : J.S.P.S. Invited Fellow at Tokyo Institute of Technology, Japan
- 2002–2003 : Monkasho Invited Professor at The University of Tokyo, R.E.S.C.E.U., Tokyo, Japan
- 2003 : Visiting Professor at Observatory of Nice, France
- 2004 : Visiting Professor at Tohoku University Sendai, Japan
- 2004/2005 : Visiting Professor at C.P.T. Marseille, France
- 2005 : Visiting Professor at Observatory of Paris, L.U.T.H., France
- 2006 : Visiting Professor at Dept. of Appl. Math., Cape Town, South Africa
- 2007 : Visiting Professor at Observatory of Paris, L.U.T.H., France
- 2007 : Visiting Professor at Paris University 7, France
- 2015 : Visiting Professor at University of Santiago, Chile
- 2017 : Visiting Professor at Observatory of Strasbourg, France
- 2017 : Visiting Professor at University of Torun, Poland

Shortlisted/Interview for the following Positions :

- 1995 : Associate Professor at L.M.U. Munich, Germany
- 1995 : Permanent Research Position at M.P.A. Garching, Germany
- 2000 : Associate Professor at L.M.U. Munich, Germany
- 2001 : Associate Professor at Würzburg University, Germany
- 2002 : Reader at Portsmouth University, U.K.
- 2003 : Full Professor at Lancaster University, U.K.
- 2005 : Associate Professor at T.U.M. Garching, Germany
- 2006 : Scientific Coordinator, I.M.P.R.S. School, Max-Planck-Institut für Physik, Germany

- 2007 : Full Professor at Université Claude Bernard, Lyon, France (accepted)
 2007 : Full Professor at École Normale Supérieure, Lyon, France

Awards and Grants

- 1978 : Scheffel Award by German Literature Society
 1988–1994 : ‘Schwerpunkt’–Grant by Deutsche Forschungsgemeinschaft (D.F.G.)
 1995–2006 : Project Representative ‘Sonderforschungsbereich S.F.B. 375’ :
 (Research grants in Astro–Particle physics)
 1998 : Associate Membership at C.E.R.N. Geneva, Switzerland
 1999 : Tomalla Foundation, Switzerland
 1999–2000 : Center of Excellence Grant, National Astronomical Observatory Tokyo, Japan
 2000 : Tomalla Foundation, Switzerland
 2001 : J.S.P.S. Invitation Fellowship, Japan
 2002–2003 : Monkasho Award, The University of Tokyo, Japan
 2007–2016 : Prime d’Enseignement Supérieure, France
 2008–2009 : Délégation C.N.R.S. (6 months), France
 2011–2016 : Prime d’Excellence Scientifique, France
 2012–2013 : Délégation C.N.R.S. (6 months), France
 2014–2015 : C.R.C.T. (6 months), OSU, France
 2016–2017 : Délégation C.N.R.S. (12 months), France
 2017–2022 : Laureate ERC advanced Grant (5 years), European Union

Teaching

- 1990 : Seminar (Large–scale Structure and Galaxy Formation), L.M.U. (in German)
 1993 : Experimental Physics Tutorial (Advanced Lab. Course), L.M.U. (in German)
 1993 : Lector : Physics School (The Evolution of Galaxies), Bad Honnef (in English)
 1994 : Seminar (Newtonian Cosmology and Statistics), L.M.U. (in German)
 1995 : Lector : School for Teachers (Cosmology), Bad Honnef (in English)
 1995 : Lector : Enrico Fermi School (Dark Matter), Varenna, Italy (in English)
 1996–1997 : Lecture Courses (Cosmology I and II), L.M.U. (in German)
 1997–1998 : Lecture Course (Kinetic Theory), L.M.U. (in German)
 1998 : Lecture Course (Theoretical Mechanics TLI), L.M.U. (in German)
 2001–2002 : Lecture Course (Kinetic Theory), L.M.U. (in German)
 2003 : Lecture Course (Newtonian Gravity), L.M.U. (in German)
 2003–2004 : Lecture Course (Structure Formation), L.M.U. (in German)
 2004 : Lector : VII. École de Cosmologie, Marseille, France (in French)
 2004–2005 : Lecture Course (Newtonian & Relativistic Cosmology), L.M.U. (in German)
 2005–2006 : Lecture Course (General–relativistic Cosmology), L.M.U. (in German)
 2006 : Lecture Course, International Graduate School (Newton’s & Einstein’s
 gravitation theories of continuous media), University of Bielefeld , Germany (in German)
 in association with Univ. of Paris 6, Paris 7, Paris–Sud 11, Saclay, France
 2006 : Lector : XIIth. Brazilian School of Cosmology & Gravitation, Rio de Janeiro, Brazil (in English)
 2006 : Lecture Series (Backreaction Issues in Relativistic Cosmology),

- University of Cape Town, South Africa (in English)
- 2008 : Lecture Course (Introduction to Theories of Gravitation), Master 1,
École Normale Supérieure, Lyon, France (in French)
- 2008 : Tutorial (Introduction to Theories of Gravitation), Master 1,
École Normale Supérieure, Lyon, France (in French)
- 2008 : Experimental Physics Tutorial (Basic Lab. Course), Université Lyon 1, France (in French)
- 2008 : Agrégation Physique (Teacher Formation), École Normale Supérieure, Lyon, France (in French)
- 2008 : Doctoral Course (Spatial Average of Einstein's Equations and the Dark Energy
Problem in Cosmology), École Normale Supérieure, Lyon, France (in French)
- 2008 : Lecture Course (Mathematical Methods in Physics), Master 1,
École Normale Supérieure, Lyon, France (in French)
- 2008 : Tutorial (Mathematical Methods in Physics), Master 1,
École Normale Supérieure, Lyon, France (in French)
- 2008 : Informatics Tutorial (Basic Lab. Course), Université Lyon 1, France (in French)
- 2009 : Agrégation Physique (Teacher Formation), École Normale Supérieure, Lyon, France (in French)
- 2009 : Lecture Course (Gravitational Systems), Master 2,
École Normale Supérieure, Lyon, France (in French) – canceled due to accident
- 2009 : Lecture Course (Introduction to Theories of Gravitation), Master 1,
École Normale Supérieure, Lyon, France (in French) – canceled due to accident
- 2009 : Tutorial (Introduction to Theories of Gravitation), Master 1,
École Normale Supérieure, Lyon, France (in French) – canceled due to accident
- 2009 : Lecture Course (Mathematical Methods in Physics), Master 1,
École Normale Supérieure, Lyon, France (in French) – replaced due to accident
- 2009 : Tutorial (Mathematical Methods in Physics), Master 1,
École Normale Supérieure, Lyon, France (in French) – replaced due to accident
- 2010 : Lecture Course (Gravitational Systems), Master 2,
École Normale Supérieure, Lyon, France (in French)
- 2010 : Lecture Course (Introduction to Theories of Gravitation), Master 1,
École Normale Supérieure, Lyon, France (in French)
- 2010 : Tutorial (Introduction to Theories of Gravitation), Master 1,
École Normale Supérieure, Lyon, France (in French)
- 2010 : Tutorial (Electrodynamics), Master 1,
École Normale Supérieure, Lyon, France (in French)
- 2010 : Lecture Course (Mathematical Methods in Physics), Master 1,
École Normale Supérieure, Lyon, France (in French)
- 2010 : Tutorial (Mathematical Methods in Physics), Master 1,
École Normale Supérieure, Lyon, France (in French)
- 2011 : Lecture Course (Gravitational Systems), Master 2,
École Normale Supérieure, Lyon, France (in French)
- 2011 : Lecture Course (Introduction to Theories of Gravitation), Master 1,
École Normale Supérieure, Lyon, France (in French)
- 2011 : Tutorial (Introduction to Theories of Gravitation), Master 1,
École Normale Supérieure, Lyon, France (in French)
- 2011 : Tutorial (Electrodynamics), Master 1,

- École Normale Supérieure, Lyon, France (in French)
- 2011 : Lecture Course (Mathematical Methods in Physics), Master 1,
École Normale Supérieure, Lyon, France (in French)
- 2011 : Tutorial (Mathematical Methods in Physics), Master 1,
École Normale Supérieure, Lyon, France (in French)
- 2011 : Lecture Course (Cosmology and Gravitational Systems), Master 2,
École Normale Supérieure, Lyon, France (in French)
- 2012 : Lecture Course (Introduction to Theories of Gravitation), Master 1,
École Normale Supérieure, Lyon, France (in French)
- 2012 : Tutorial (Introduction to Theories of Gravitation), Master 1,
École Normale Supérieure, Lyon, France (in French)
- 2012 : Tutorial (Electrodynamics), Master 1,
École Normale Supérieure, Lyon, France (in French)
- 2012 : Doctoral Course (The Averaging Problem in Cosmology), Graduate School,
University of Pavia, Italy (in English)
- 2012 : Tutorial (Electrodynamics), Master 1,
École Normale Supérieure, Lyon, France (in French)
- 2012 : Tutorial (Continuum Mechanics), Master 1,
Université Lyon 1, France (in English)
- 2012 : Lecture Course (Mathematical Methods in Physics), Master 1,
École Normale Supérieure, Lyon, France (in French)
- 2012 : Tutorial (Mathematical Methods in Physics), Master 1,
École Normale Supérieure, Lyon, France (in French)
- 2012 : Lecture Course (Cosmology and Gravitational Systems), Master 2,
École Normale Supérieure, Lyon, France (in English)
- 2013 : Lecture Course (Introduction to Theories of Gravitation), Master 1,
École Normale Supérieure, Lyon, France (in English)
- 2013 : Tutorial (Introduction to Theories of Gravitation), Master 1,
École Normale Supérieure, Lyon, France (in French)
- 2013 : Tutorial (Electrodynamics), Master 1,
École Normale Supérieure, Lyon, France (in French)
- 2013 : Tutorial (Electrodynamics), Master 1,
École Normale Supérieure, Lyon, France (in French)
- 2013 : Tutorial (Continuum Mechanics), Master 1,
Université Lyon 1, France (in English)
- 2013 : Lecture Course (Mathematical Methods in Physics), Master 1,
École Normale Supérieure, Lyon, France (in French)
- 2013 : Tutorial (Mathematical Methods in Physics), Master 1,
École Normale Supérieure, Lyon, France (in French)
- 2013 : Lecture Course (Cosmology and Gravitational Systems), Master 2,
École Normale Supérieure, Lyon, France (in French)
- 2014 : Lecture Course (Introduction to Theories of Gravitation), Master 1,
École Normale Supérieure, Lyon, France (in French)
- 2014 : Tutorial (Introduction to Theories of Gravitation), Master 1,

- École Normale Supérieure, Lyon, France (in French)
- 2014 : Doctoral Course (Averaging Inhomogeneous Cosmologies),
XII. Cosmology School Cargèse, France (in English)
- 2014 : Tutorial (Continuum Mechanics), Master 1,
Université Lyon 1, France (in English)
- 2014 : Tutorial (Mathematical Methods in Physics), Master 1,
École Normale Supérieure, Lyon, France (in French)
- 2014 : Lecture Course (Cosmology and Gravitational Systems), Master 2,
École Normale Supérieure, Lyon, France (in English)
- 2015 : Lecture Course (Introduction to Theories of Gravitation), Master 1,
École Normale Supérieure, Lyon, France (in French)
- 2015 : Tutorial (Introduction to Theories of Gravitation), Master 1,
École Normale Supérieure, Lyon, France (in French)
- 2015 : Doctoral Course (Inhomogeneous Cosmology),
Universidad de Santiago, Chile (in English)
- 2015 : Tutorial (Continuum Mechanics), Master 1,
Université Lyon 1, France (in English)
- 2015 : Tutorial (Mathematical Methods in Physics), Master 1,
École Normale Supérieure, Lyon, France (in French)
- 2015 : Lecture Course (Cosmology and Gravitational Systems), Master 2,
École Normale Supérieure, Lyon, France (in French)
- 2016 : Lecture Course (Introduction to Theories of Gravitation), Master 1,
École Normale Supérieure, Lyon, France (in French)
- 2016 : Tutorial (Introduction to Theories of Gravitation), Master 1,
École Normale Supérieure, Lyon, France (in French)
- 2017 : Lecture Course (Cosmology and Gravitational Systems), Master 2,
École Normale Supérieure, Lyon, France (in English)
- 2017 : Agrégation Physique (Teacher Formation), École Normale Supérieure, Lyon, France (in French)
- 2017 : Tutorial (Introduction to General Relativity), Master 1,
École Normale Supérieure, Lyon, France (in French)
- 2017 : Doctoral Course (Inhomogeneous Cosmology and the Dark Universe),
Observatory of Strasbourg, France (in English)
- 2018 : Tutorial (Introduction to General Relativity), Master 1,
École Normale Supérieure, Lyon, France (in French)

Supervising

in Germany :

14 Diploma students, 1 Teacher Exam student,
11 Ph.D. students.

in France :

2 Students L3, 5 Master Students M1, 12 Master Students M2,
9 Ph.D. students (one ongoing, two starting in September 2018).

Fund Raising and Exchange Programs

- 1991–1993 : Exchange Program of Max–Planck–Society and Chinese Academy of Sciences, M.P.G.–C.A.S.
1995–1997 : Student exchange grants for France (D.A.A.D.)
1996 : Student exchange grant for Spain (Acciones Integradas)
1995–1998 : Coordinator for Munich : E.C.N. Cosmology (planning phase)
1995–1997 : S.F.B. 375 (Research in Astro–Particle physics) : Grants for 1 Ph.D. student and 1 postdoc
1998–2000 : S.F.B. 375 (Research in Astro–Particle physics) : Grants for 1 Ph.D. student and 2 postdocs
1999–2002 : D.F.G. grant for Ph.D. student
2001–2003 : S.F.B. 375 (Research in Astro–Particle physics) : Grants for 2 postdocs
2004–2006 : S.F.B. 375 (Research in Astro–Particle physics) : Grants for 1 Ph.D. student and 1 postdoc
2008–2011 : Grants for two Ph.D. students (École Doctorale Lyon)
2010–2011 : Fédération de Physique André Marie Ampère (Dark Energy and Dark Matter, 18 K€)
2011–2012 : Fédération de Physique André Marie Ampère (Structure Formation, 30 K€)
2011–2014 : Grant for Ph.D. student (École Doctorale Lyon)
2012–2015 : Grant for Ph.D. student (Bourse École Normale Supérieure)
2013–2015 : Student exchange grant (Center of French–Bavarian University Cooperation)
2013–2016 : Exchange Funds for students : Poland (HELCOLS)
2015–2018 : OPUS 7 Poland ; financial support for Polish project (role : key-I) (155 K€)
2016–2018 : Grant for 1 postdoc (Labex LIO)
2016–2018 : ERC advanced Grant (European Union, 2,1 M€)

Workshop Organization

- 1989 : M.P.A. Progress Report on Cosmology and Gravitational Lensing (LOC)
1993 : 4th M.P.G.–C.A.S. Workshop on High–energy Astrophysics (LOC)
1996 : 2nd S.F.B. Workshop on Astro–particle Physics (LOC)
2005 : Spacetime in Action : One hundred years of Relativity, University of Pavia, Italy (LOC)
2007 : Cosmology School and Workshop, Cargèse, France (SOC)
2008 : 2nd C.R.A.L./I.P.N.L. Conference : Dark Energy and Dark Matter, Lyon, France (LOC)
2009 : U.N.E.S.C.O. Conference : The Dark Universe, Paris, France (LOC)
2011 : Conference : XXXV Matter to the Deepest, Ustron, Poland (SOC)
2012 : 1st LIO conference on Neutrinos at the forefront of elementary particle physics and astrophysics, Lyon, France (LOC)
2013 : Conference : Hot Topics in General Relativity, Quy–Nhon, Vietnam (SOC)
2013 : Conference : XXXVI Matter to the Deepest, Ustron, Poland (SOC)
2014 : Workshop : Fundamental Issues of the Standard Cosmological Model, Cargèse, France (SOC)
2015 : Conference : XIV. Marcel Grossmann Meeting, Rome, Italy (LOC, ICC)
2015 : Conference : 1st Roman Juszkiewicz Symposium, Warsaw, Poland (SOC)
2017 : Conference : Inhomogeneous Cosmologies II, Torun, Poland (SOC, LOC)
2018 : Conference : CosmoBack, Marseille, France (SOC)
2018 : Conference : Inhomogeneous Cosmologies III, Krakow, Poland (SOC)

Refereeing

Referee for National Fund Organizations (A.N.R. Grants, France ; N.S.F. Grants, U.S.A. ; The Netherlands ; Greece ; South Africa ; Estonia ; Poland) ; Referee for Books (Cambridge Univ. Press ; John Wiley & Sons, Grenoble Sciences) ; Referee for international journals (about 30 per year) : *Nature*, *Astron. and Astrophys.*, *New Astronomy*, *M.N.R.A.S.*, *The Astrophys. J.*, *The Astrophys. J. Lett.*, *Phys. Rev. D*, *Rev. Mod. Phys.*, *Phys. Lett. A,B*, *Gen. Rel. Grav.*, *Class. Quant. Grav.*, *J.C.A.P.*, *Annalen der Physik*, *Physica Scripta A*, *P.N.A.S.*, *J. of Mod. Phys. D*, *Foundations of Physics*, *E.P.J.C.*, *M.D.P.I. Galaxies* ; Referee of other organisations for stipendia : *D.F.G.*, *Studienstiftung*, *D.A.A.D.*.

Selected Invited Talks and Colloquia

Not included in this list : Talks at 'local' institutes (Max-Planck-Institut f. Astrophysik, Max-Planck-Institute f. Extraterrestrische Physik, Max-Planck-Institut f. Physik, European Southern Observatory, Ringberg Castle and Bad Honnef) and local universities (Ludwig-Maximilians-U., Technical U. and Astronomical Institute) in Munich/Garching and, from 2007, in Lyon (UCBL, ENS, IPNL).

- 1984 : Z.I.F., Bielefeld, Germany
- 1988 : N.O.R.D.I.T.A., Copenhagen, Denmark
- 1989 : Perugia, Italy
- 1989 : Amsterdam and Leiden, The Netherlands
- 1989 : Highlight-Lecture of the Astronomical Society, Graz, Austria
- 1990 : Max-Planck-Institute for Astronomy, Heidelberg, Germany
- 1990 : Huangshan, PR China
- 1990 : University of Valencia, Spain
- 1990 : Observatoire de Paris, D.A.E.C., France
- 1991 : University of Valencia, Spain
- 1991 : Observatoire de Meudon, D.A.E.C., France
- 1993 : Niels-Bohr-Institute, Copenhagen, Denmark
- 1994 : Aspen, Colorado, U.S.A.
- 1994 : Observatoire de Paris, D.A.E.C., France
- 1994 : Nandaihe, PR China
- 1994 : Geltow, Potsdam, Germany
- 1995 : Int. School Enrico Fermi, Varenna, Italy
- 1995 : Observatoire de Paris, D.A.E.C., France
- 1995 : University of Valencia, Spain
- 1995 : Berlin Dahlem, Germany
- 1996 : E.T.H., Zürich, Switzerland
- 1996 : Ringberg, Tegernsee, Germany
- 1996 : L.A.E.F.F., Madrid, Spain
- 1997 : Lawrence, Kansas, U.S.A.
- 1997 : Osaka University, Japan

1997 : Tohoku University Sendai, Japan
1998 : University of Essen, Germany
1998 : Shanghai Observatory, PR China
1999 : C.E.R.N., Geneva, Switzerland
1999 : University of Geneva, Switzerland
1999 : National Astronomical Observatory, Tokyo, Japan
1999 : Tohoku University Sendai, Japan
1999 : Hiroshima, Japan
2000 : University of Geneva, Switzerland
2000 : Tohoku University Sendai, Japan
2000 : Tokyo Institute of Technology, Japan
2000 : R.E.S.C.E.U., The University of Tokyo, Japan
2001 : University of Pavia, Italy
2001 : C.N.R.S., Institut Henri Poincaré, Paris, France
2001 : University of Würzburg, Germany
2001 : Tokyo Institute of Technology, Japan
2001 : R.E.S.C.E.U., The University of Tokyo, Japan
2002 : Waseda University, Tokyo, Japan
2002 : University of Portsmouth, U.K.
2002 : Tokyo Institute of Technology, Japan
2002 : R.E.S.C.E.U., The University of Tokyo, Japan
2002 : University of Pavia, Italy
2003 : Observatoire de la Côte d'Azur, Nice, France
2003 : University of Lancaster, U.K.
2003 : Tokyo Institute of Technology, Japan
2004 : 21st C.O.E. Symposium, Tohoku University Sendai, Japan
2004 : Tohoku University Sendai, Japan
2004 : C.I.R.M. and C.P.T., Marseille, France
2004 : University of Pavia, Italy
2005 : C.N.R.S., Observatoire de Paris, France
2005 : Observatoire de Paris, L.U.T.H., France
2005 : C.I.R.M., Marseille, France
2005 : University of Geneva, Switzerland
2005 : Observatoire de Paris, L.U.T.H., France
2006 : R.W.T.H., University of Aachen, Germany
2006 : C.N.R.S., I.A.P. Paris, France
2006 : University of Bielefeld, Germany
2006 : XII. B.S.C.G., Rio de Janeiro, Brazil
2006 : Dept. of Appl. Math., Cape Town, South Africa
2007 : Spinoza Institute, University of Utrecht, The Netherlands
2007 : Observatoire de Paris, L.U.T.H., France
2007 : Observatoire de Lyon, C.R.A.L., France
2007 : C.N.R.S., Observatoire de Paris, France
2007 : Université Claude Bernard, Lyon, France
2007 : Albert Einstein Institute, Golm, Germany
2007 : University of Pavia, Italy

2007 : G.R.A.A.L., Montpellier, France
2007 : University of Ulm, Germany
2008 : L.P.N.H.E., Paris, France
2008 : E.P.F.L., Lausanne, Switzerland
2008 : F.Z. Karlsruhe, Germany
2008 : University of Ulm, Germany
2010 : L.A.M., Marseille, France
2010 : University of Konstanz, Germany
2010 : U.N.A.M. Mexico City (remote part.), Mexico
2011 : D.E.N.E.T., I.A.P., Paris, France
2012 : L.U.P.M., Montpellier, France
2012 : University of Pavia, Graduate School, Italy
2012 : Observatory of Brera, Merate, Italy
2013 : École des Mines, Saint-Étienne, France
2013 : Université Paris Diderot, Paris, France
2014 : Max-Planck-Institute for Nuclear Physics, Heidelberg, Germany
2014 : XII. Cosmology School, Cargèse, France
2015 : Observatory of Santiago, Chile
2015 : University of Santiago, Doctoral School, Chile
2016 : Workshop OPUS 7, Observatory of Torun, Poland
2016 : MPP, Munich, Germany
2017 : Workshop : Inhomogeneous Cosmologies II, Opening Talk, Torun, Poland
2017 : Observatory of Strasbourg, Doctoral School, Strasbourg, France
2018 : Workshop Cosmoback, Lecture, Marseille, France
2018 : 2nd World Summit on Exploring the Dark Side of the Universe, Pointe-à-Pitre, Gouadeloupe

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