

# 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 2, 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](http://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  
Sept. 1st, 2020 : Promotion to Professor Exceptional Class 2

## 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 of Cosmology 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  
 2007–2021 : Prime d’Enseignement Supérieure, France  
 2008–2009 : Délégation C.N.R.S. (6 months), France  
 2011–2019 : Prime d’Excellence Scientifique, France  
 2021–2024 : 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  
 2017–2023 : Laureate ERC advanced Grant (6 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 : Tutorial (Tensors and Geometry), Master 1,  
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)
- 2019 : Tutorial (Introduction to General Relativity), Master 1,  
École Normale Supérieure, Lyon, France (in French)

- 2019 : Tutorial (Fluid Mechanics), Licence 3,  
Université Lyon 1, France (in French)
- 2020 : Tutorial (Introduction to General Relativity), Master 1,  
École Normale Supérieure, Lyon, France (in French)
- 2020 : Tutorial (Fluid Mechanics), Licence 3,  
Université Lyon 1, France (in French)
- 2020 : Agrégation Physique (Teacher Formation),  
École Normale Supérieure, Lyon, France (in French)
- 2021 : Agrégation Physique (Teacher Formation),  
École Normale Supérieure, Lyon, France (in French)
- 2021 : Tutorial (Introduction to General Relativity), Master 1,  
École Normale Supérieure, Lyon, France (in French)

### Supervising

in Germany :

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

in France :

4 Students L3, 6 Master Students M1, 7 Master Students M2,  
10 Ph.D. students (one ongoing).

### 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)
- 2017–2023 : ERC advanced Grant (European Union, 2,1 M€, Grants for 4 postdocs)
- 2020–2022 : POLONIUM Poland ; financial support for Polish project (role : co-I)

## 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 : Workshop : ERC-ARTHUS Roundtable I, Lyon, France (LOC)  
2017 : Conference : Inhomogeneous Cosmologies II, Torun, Poland (SOC, LOC)  
2018 : Conference : CosmoBack, Marseille, France (SOC, LOC)  
2018 : Conference : Inhomogeneous Cosmologies III, Krakow, Poland (SOC)  
2018 : Workshop : ERC-ARTHUS Roundtable II, Lyon, France (LOC)  
2019 : Conference : Inhomogeneous Cosmologies IV, Torun, Poland (SOC, LOC)  
2019 : Workshop : ERC-ARTHUS Roundtable III, Lyon, France (LOC)  
2020 : Conference : Emerging Issues in Cosmology and Particle Physics, Visva-Bharati, India (SOC)  
2020 : Workshop : ERC-ARTHUS Roundtable IV and V, Lyon, France (LOC)  
2021 : Research School CIRM : Theory of Gravitation and Variation in Cosmology (1st edition), Marseille, France (SOC)  
2021 : Workshop : ERC-ARTHUS Roundtable VI and VII, Lyon, France (LOC)  
2021 : Research School CIRM : Theory of Gravitation and Variation in Cosmology (2nd edition), Marseille, France (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., Studentstiftung, 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  
2018 : Workshop : Inhomogeneous Cosmologies II, Summary Talk, Krakow, Poland  
2019 : Seminar public outreach, Villeurbanne, France  
2019 : Seminar public outreach, Saint-Genis-Laval, France  
2019 : Workshop : Inhomogeneous Cosmologies IV, Torun, Poland  
2020 : Mathematics Institut Camille-Jordan, Lyon, France

• **Online Version including Links : [www.cosmunix.de/buchert\\_cv.html](http://www.cosmunix.de/buchert_cv.html)**