

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' (2017–2023)
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
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
 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
 2021–2024 : Prime d’Excellence Scientifique, France

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)
- 2021 : Tutorial (Fluid Mechanics), Licence 3,
Université Lyon 1, France (in French)
- 2021 : Agrégation Physique (Teacher Formation),
École Normale Supérieure, Lyon, France (in French)
- 2022 : Agrégation Physique (Teacher Formation),
École Normale Supérieure, Lyon, France (in French)
- 2022 : Lecture Course (Introduction to General Relativity), Master 1,
École Normale Supérieure, Lyon, France (in English)
- 2023 : Tutorial (Fluid Mechanics), Licence 3,
Université Lyon 1, France (in French)
- 2023 : Agrégation Physique (Teacher Formation),
École Normale Supérieure, Lyon, France (in French)
- 2024 : Lecture Course (Introduction to General Relativity), Master 1,
École Normale Supérieure, Lyon, France (in French)

Supervising

in Germany :

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

in France :

5 Students L3, 10 Master Students M1, 10 Master Students M2,
10 Ph.D. students.

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 16 postdoc years)
 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 (SOC, 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 (SOC, LOC)
 2019 : Conference : Inhomogeneous Cosmologies IV, Torun, Poland (SOC, LOC)
 2019 : Workshop : ERC-ARTHUS Roundtable III, Lyon, France (SOC, LOC)
 2020 : Conference : Emerging Issues in Cosmology and Particle Physics, Visva-Bharati, India (SOC)
 2020 : Workshops : ERC-ARTHUS Roundtables IV and V, Lyon, France (SOC, LOC)

- 2021 : Research School CIRM : Theory of Gravitation and Variation in Cosmology (1st edition), Marseille, France (SOC)
- 2021 : Workshops : ERC-ARTHUS Roundtables VI and VII, Lyon, France (SOC, LOC)
- 2021 : Research School CIRM : Theory of Gravitation and Variation in Cosmology (2nd edition), Marseille, France (SOC)
- 2021 : Workshops : ERC-ARTHUS Roundtables VIII and IX, Lyon, France (SOC, LOC)
- 2021 : Workshop : ERC-ARTHUS Roundtable X, Lyon, France (SOC, LOC)

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. Universe, Galaxies, Entropy* ; 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
 2022 : Observatory, University of Vienna, Austria

• **Online Version including Links : www.cosmunix.de/buchert_cv.html**