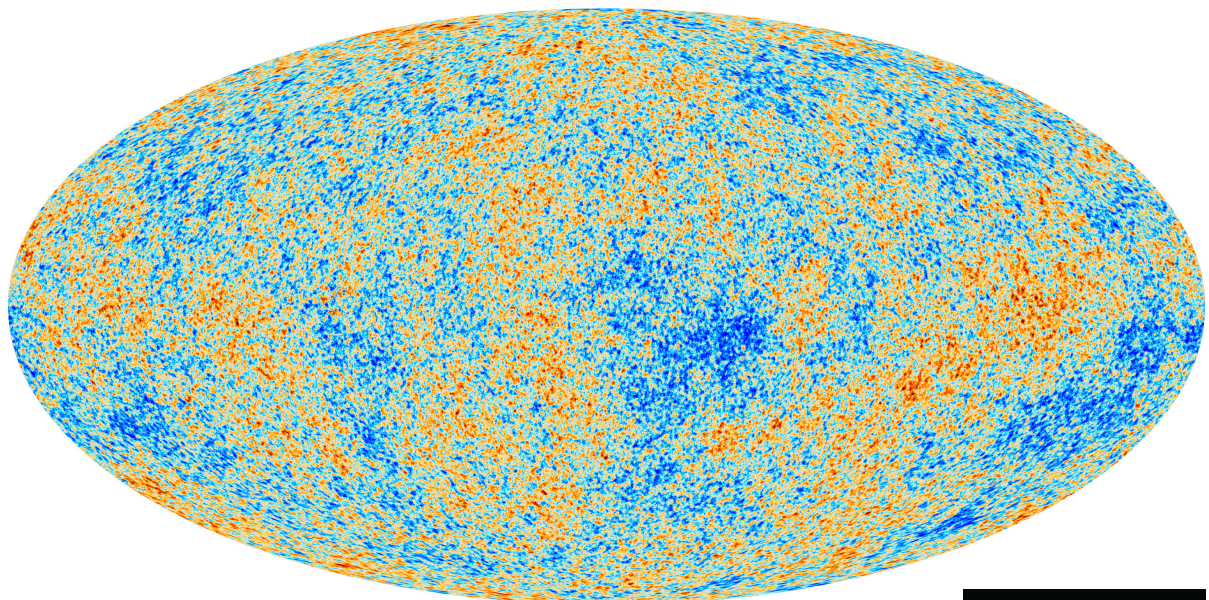


Transregional Collaborative Research Centre TRR 33

The Dark Universe



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Universität Heidelberg
jointly with
Universität Bonn and LMU München

Curricula vitae and publications of PIs
7/2014-2015-2016-2017-6/2018

Transregional Collaborative Research Centre TRR 33

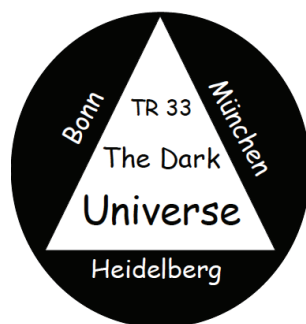
The Dark Universe

Curricula vitae and publications of participating project section leaders

Ruprecht-Karls-Universität Heidelberg
Rheinische Friedrich-Wilhelms-Universität Bonn
Ludwig-Maximilians-Universität München

jointly with

Max-Planck-Institut für Astrophysik
Max-Planck-Institut für Extraterrestrische Physik
European Southern Observatory (ESO)



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Curricula vitae and publications of participating project section leaders

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1.1 L. Amendola

Name: Amendola, Luca, Professor

Place of birth: Rome, Italy

Date of birth: September 10, 1963

Gender: male

Institute affiliation: Institut für Theoretische Physik,
Philosophenweg 16, 69120 Heidelberg

Phone number: +49-6221-549407

Email: l.amendola@thphys.uni-heidelberg.de

Present Position: Professor (W3)

Background: Studies in Physics at

Università La Sapienza Rome, Diploma in Physics (1989)
Università La Sapienza Rome, PhD in Astrophysics (1994)

Employment: Fellow at Fermilab (1994)
Researcher at INAF/Osservatorio Astronomico
di Roma (1994-2004)
Visiting Professor at Dartmouth College, USA (1999)
Associate Astronomer at INAF/OAR (2005-2009)
Professor (W3) at University of Heidelberg (2009)

Selected publications

- [1] L. Amendola: Coupled quintessence, Phys. Rev. D 62, 043511 (2000) [astro-ph/9908023]
- [2] A. V. Maccio, C. Quercellini, R. Mainini, L. Amendola, S. A. Bonometto: N-body simulations for coupled dark energy: Halo mass function and density profiles, Phys. Rev. D 69, 123516 (2004) [astro-ph/0309671]
- [3] L. Amendola, D. Polarski, S. Tsujikawa: Are $f(R)$ dark energy models cosmologically viable?, Phys. Rev. Lett. 98, 131302 (2007) [astro-ph/0603703]
- [4] L. Amendola, M. Baldi, C. Wetterich: Growing Matter, 2008, Phys. Rev. D 78, 023015, arXiv:0706.3064 [astro-ph]
- [5] L. Amendola, S. Tsujikawa: Dark Energy. Theory and Observations, Cambridge University Press, 2010, ISBN-10: 0521516005, ISBN-13: 978-0521516006

1.2 M. Bartelmann

Name: BARTELMANN, Matthias, Professor

Place of birth: Bamberg, Germany

Date of birth: April 2, 1965

Gender: male

Institute affiliation: Institut für Theoretische Astrophysik,
Philosophenweg 12, 69120 Heidelberg

Phone number: +49-6221-544817

Email: bartelmann@uni-heidelberg.de

Present Position: Professor (C4)

Background: Studies in Physics at

LMU München (1985-1990)

Diploma, LMU München (1990, supervisors J. Ehlers and P. Schneider)
Dissertation, PhD, LMU München (1992, advisors J. Ehlers and P. Schneider)
Habilitation, LMU München (1998, mentor R. Kudritzki)

Employment: Max-Planck-Institut für Astrophysik, Garching (MPA), doctoral fellowship (1990-1992)
MPA, post-doc (1992-1994)
Harvard-Smithsonian Center for Astrophysics, postdoc (1994-1995)
MPA, scientific employee (1995-2003)
Universität Heidelberg, chair for theoretical astrophysics (2003-)
Universität Heidelberg, Faculty of Physics and Astronomy, dean (2006-2008)
Universität Heidelberg, Faculty of Physics and Astronomy, vice-dean (2008-2012)
German Physical Society, board member (2012-)
Universität Heidelberg, Committee for Research and Strategy, chairman (2012-)

Prizes: Bavarian State Scholarship and Maximilianeum Foundation (1984)
Otto Hahn Medal of the Max Planck Society (1992)
Ludwig Biermann Prize of the German Astronomical Society (1996)
Teaching Prize, Faculty of Physics and Astronomy (2008)

Selected publications

- [1] M. Bartelmann: The Dark Universe, 2010, Rev. Mod. Phys. 82, 331
- [2] M. Bartelmann: Gravitational Lensing, 2010 Class. Quant. Grav. 27, 233001
- [3] M. Maturi, C. Angrick, M. Bartelmann and F. Pace: An analytic approach to number counts of weak-lensing peak detections, 2010, A&A 519, 23
- [4] P. Melchior, M. Viola, B. M. Schäfer and M. Bartelmann: Weak gravitational lensing with DEIMOS, 2011, MNRAS 412, 1552
- [5] M. Meneghetti, C. Fedeli, A. Zitrin, M. Bartelmann, T. Broadhurst, S. Gottlöber, L. Moscardini and G. Yepes: Comparison of an X-ray selected sample of massive lensing clusters with the MareNostrum Universe LCDM simulation, 2011, A&A 530, 17

1.3 R. Bender

Name:	BENDER, Ralf, Professor
Place of birth:	Alzey, Germany
Date of birth:	December 29, 1958
Gender:	male
Institute affiliation:	Sternwarte der Ludwig-Maximilians-Universität München Scheinerstr. 1, 81679 München
Phone number:	+49-89-21805999
Email:	bender@usm.lmu.de
Present Position:	Professor (C4)
Background:	Studies in Physics at Universität Heidelberg (1977-1983) Diploma, Universität Heidelberg (1983, supervisor B. Stech) Dissertation, PhD, Universität Heidelberg (1985-1987, advisor I. Appenzeller) Habilitation, Universität Heidelberg (1991), mentor I. Appenzeller
Employment/Functions:	Landessternwarte Heidelberg, Research Associate (1987-1990) University of Oxford, NATO fellow (1990-1991) Landessternwarte Heidelberg, Staff Astronomier (Astronomierat) (1991-1994) Ludwig-Maximilians-Universität München, chair in astrophysics (1994-now) Universitäts-Sternwarte München, Managing Director (1998-2003) Ludwig-Maximilians-Universität München, Senator (2000-2004) Max-Planck-Institut für Extraterrestrische Physik, Director (2002-now) European Southern Observatory, German Representative in Council (2002-2006) International Max-Planck Research School on Astrophysics, Speaker (2002-now) University of Texas at Austin, B.L.Tinsley Visiting Professor (2004, 2005) Physik Department der Ludwig-Maximilians-Universität, Director (2006-2007) Fakultät für Physik der Ludwig-Maximilians-Universität, Prodekan (2007-now)
Prizes/Awards:	NATO Fellowship (1990) B.L. Tinsley Centennial Visiting Professorship at the University of Texas (2004) Member of the German Academy of Sciences Leopoldina (2006)

Selected publications

- [1] R. Bender, D. Burstein, S.M. Faber: Dynamically Hot Galaxies I: Structural Properties, *Astrophys. J.* 399 (1992) 462
- [2] R. Bender, R.P. Saglia, B. Ziegler, et al.: Exploring elliptical galaxies as cosmological standard rods, *Astrophys. J.* 493 (1998), 529
- [3] K. Gebhardt, G. Bower, R. Bender et al.: A relationship between nuclear black hole mass and galaxy velocity dispersion, *Astrophys. J.* 539 (2000), L13
- [4] D. Thomas, C. Maraston, R. Bender, C. Mendes de Oliveira: The epochs of early-type galaxy formation as a function of environment, *Astrophys. J.* 621 (2005) 673
- [5] J. Thomas, R.P. Saglia, R. Bender et al.: Dynamical masses of early-type galaxies: a comparison to lensing results and implications for the stellar initial mass function and the distribution of dark matter, *Mon. Not. Roy. Astron. Soc.* 415 (2011) 545

1.4 F. Bertoldi

Name: BERTOLDI, Frank, Professor

Place of birth: Cologne, Germany

Date of birth: June 18, 1960

Gender: male

Institute affiliation: Argelander-Institut für Astronomie,
Auf dem Hügel 71, 53121 Bonn

Phone number: +49-228-736789

Email: bertoldi@astro.uni-bonn.de

Present Position: Professor (C4)

Background: Studies in Physics at:
Universität zu Köln (1979-82)
University of California at Berkeley (1982-89)
Dissertation (PhD) (1989, advisor C.F. McKee)

Employment:
University of California at Berkeley, research assistant (1983-89)
Princeton University, postdoc (1989-1992)
Institut Astrophysique de Paris, postdoc (1992-1993)
MPI für extraterrestrische Physik, Garching, postdoc (1993-1998)
MPI für Radioastronomie, Bonn (1998-2004), research staff
Bonn University, Professor (since 2004)

Prizes: Elisabeth Uhl Prize 1989
Phillip-Morris Research Prize 2004

Selected publications

- [1] Bertoldi, F., Carilli, C., Aravena, M., et al., COSBO: The MAMBO 1.2 Millimeter Imaging Survey of the COSMOS Field, *ApJS*, 172 (2007) 132
- [2] Greve, T. R., Bertoldi, F., Smail, I., Neri, R., Chapman, S. C., Blain, A. W., Ivison, R. J., Genzel, R., Omont, A., Cox, P., Tacconi, L., Kneib, J.-P., An interferometric CO survey of luminous submillimetre galaxies, *MNRAS*, 359 (2005) 1165
- [3] Walter, F., Bertoldi, F., Carilli, C., Cox, P., Lo, K. Y., Neri, R., Fan, X., Omont, A., Strauss, M. A., Menten, K. M.: Molecular gas in the host galaxy of a quasar at redshift $z = 6.42$, *Nature*, 424 (2003) 406
- [4] Draine, B. T., Bertoldi, F.: Structure of Stationary Photodissociation Fronts, *ApJ*, 468 (1996) 269
- [5] Bertoldi, F.: The photoevaporation of interstellar clouds. I - Radiation-driven implosion, *ApJ*, 346 (1989) 735

1.5 H. Böhringer

Name: BÖHRINGER, Hans, Professor

Place of birth: Mannheim, Germany

Date of birth: December 2, 1952

Gender: male

Institute affiliation: Max-Planck-Institut für extraterrestrische Physik,
Giessenbachstrasse, 85748 Garching

Phone number: +49-89-30000-3347

Email: hxb@mpe.mpg.de

Present Position: Research Group Leader (C3)

Background: Studies in Physics at
Universität Heidelberg (1971-1980)
Diploma, Universität und MPI für Kernphysik, Heidelberg (1977, supervisor F. Arnold)
Dissertation, Universität und MPI für Kernphysik, Heidelberg (1980, advisor H. Völk)
Habilitation, Ludwig-Maximilian-Universität München (1998)

Employment: MPI für Kernphysik, Heidelberg (1976-1981)
A.v.H. Feyodor-Lynen-Fellow at the NOAA Aeronomy Laboratory in Boulder,
Colorado (1981-1983)
MPI für Kernphysik, Heidelberg (1983-1984)
MPI für extraterrestrische Physik, Garching (1984-now)
Member of the Science Council of the Max-Planck-Gesellschaft (1997-2003)
APL Professor at the Ludwig-Maximilian-Universität München (since 2005)
Member of Science Definition Team for the future missions XEUS/IXO (1998-2009)
Member of the Observation Program Committee of ESO (2000-2003)
Member of the Astronomy Working Group of ESA (2006-2008)
Lecturer of the Munich International Max-Planck Research School (2003-now)
Member of the XMM-Newton Users Group of ESA (2013-now)

Prizes: Otto-Hahn-Medaille of the Max-Planck-Gesellschaft

Selected publications

- [1] H. Böhringer et al., 2004, The ROSAT-ESO Flux Limited X-ray (REFLEX) Galaxy cluster survey. V. The cluster catalogue, *A&A*, 425, 367-383
- [2] H. Böhringer et al., 2007, The representative XMM-Newton cluster structure survey (REXCESS) of an X-ray luminosity selected galaxy cluster sample, *A&A*, 469, 363-377
- [3] Böhringer et al., 2010, Substructure of the galaxy clusters in the REXCESS sample: observed statistics and comparison to numerical simulations, *A&A*, 514, A32
- [4] H. Böhringer, G. Chon, K. Dolag, 2012: Modelling self-similar appearance of galaxy clusters in X-rays, *A&A*, 539, 120, 14pp
- [5] H. Böhringer et al., 2013, The extended ROSAT-ESO Flux Limited X-ray Galaxy Cluster Survey (REFLEX II) II. Construction and Properties of the Survey, *A&A*, 555, A30

1.6 I. Brunner

Name: BRUNNER, Ilka, Professor

Place of birth: Pittsburgh, PA, USA

Date of birth: January 25, 1971

Gender: female

Institute affiliation: Arnold Sommerfeld Center für Theoretische Physik,
Theresienstr. 37, 80333 München

Phone number: +49-89-2180 4379

Email: ilka.brunner@physik.uni-muenchen.de

Present Position: Professor (W2)

Background: Studies in Physics at

Universität Bonn (1990-1995)
Universiteit Amsterdam (1994-1995)

Diploma, Universität Bonn (1995, supervisor R. Dijkgraaf and W. Nahm)
Dissertation, PhD, Humboldt Universität Berlin (1998, advisor D. Lüst)

Employment: Rutgers University, postdoc (1998-2001)
Fellow at CERN, Geneva (2001-2004)
ETH Zürich, postdoc (2004-2006)
ETH Zürich, Assistant Professor (fixed term) (2006-2008)
Excellence Cluster Universe, Garching, Junior Research Group Leader (2008-2013)
LMU München, Professor (W2), (2008-now)

Prizes: Lise Meitner Prize for PhD thesis (1999)
EURYI award (2005)

Selected publications

- [1] I. Brunner, M. R. Douglas, A. E. Lawrence and C. Römelsberger: D-branes on the quintic, hep-th/9906200, JHEP 0008 (2000) 015
- [2] I. Brunner and K. Hori: Orientifolds and mirror symmetry, hep-th/0303135, JHEP 0411 (2004) 005
- [3] I. Brunner, M. Herbst, W. Lerche and B. Scheuner: Landau-Ginzburg realization of open string TFT, hep-th/0305133, JHEP 0611 (2006) 043
- [4] C. Bachas and I. Brunner: Fusion of conformal interfaces, arXiv:0712.0076 [hep-th], JHEP 0802 (2008) 085
- [5] I. Brunner and D. Roggenkamp: Defects and bulk perturbations of boundary Landau-Ginzburg orbifolds, arXiv:0712.0188 [hep-th], JHEP 0804 (2008) 001

1.7 K. Dolag

Name: Dolag, Klaus, Dr.

Place of birth: Bühl, Germany

Date of birth: January 7, 1970

Gender: male

Institute Affiliation: Ludwig Maximilians Universität Fakultät für Physik
Scheinerstrasse 1, 81679 München

Phone number: +49-89-2180-5994

Email: dolag@usm.lmu.de

Present Position: Akademischer Oberrat, Ludwig-Maximilians-Universität, München

Background: Studies in Physics at
Diploma, Physics, theoretical branch, Technische Universität München (1997)
PhD in Physics, Ludwig-Maximilians-Universität München, (2000)

Employment: Post-Doc, MPI für Astrophysik, Garching (2000-2002)
Marie Curie Individual Fellowship, University of Padova (2002-2004)
Post-Doc, MPI für Astrophysik, Garching (2004/2009)
DFG Individual Fellowship, MPI für Astrophysik, Garching (2009-2010)
Wissenschaftlicher Mitarbeiter, Universitäts-Sternwarte München (since 2010)

Prizes: Marie Curie Individual Fellowship (2002-2004)
DFG Individual Fellowship (2009-2010)

Selected publications

- [1] Lower limit on the strength and filling factor of extragalactic magnetic fields, Dolag, K., Kachelriess, M., Ostapchenko, S., Tomas, R, ApJL, 727, 4 (2011)
- [2] Substructures in hydrodynamical cluster simulation, Dolag, K., Borgani, S., Murante, G., Springel, V., MNRAS, 339, 497 (2009)
- [3] Turbulent gas motion in galaxy cluster simulations: The role of SPH viscosity, Dolag, K., Vazza, F., Brunetti, G., Tormen, G., Springel, V., MNRAS, 364, 753 (2005)
- [4] Numerical study of halo concentrations in dark-energy cosmologies, Dolag, K., Bartelmann, M., Perrotta, F., Baccigalupi, C., Moscardini, L., Meneghetti, M., Tormen, G., A&A, 416, 853 (2004)
- [5] SPH simulation of magnetic fields in galaxy clusters, A&A, 348, 351 (1999)

1.8 M. Drees

Name: DREES, Manuel, Professor

Place of birth: Hagen, Germany

Date of birth: March 5, 1961

Gender: male

Institute affiliation: Physikalisches Institut
Nussallee 12, 53115 Bonn

Phone number: +49-228-732224

Email: drees@th.physik.uni-bonn.de

Present Position: Professor (C4)

Background: Studies in Physics at Universität Dortmund (1979-1984)
Diploma, Universität Dortmund (1984, supervisor E. Reya)
Dissertation, PhD, Universität Bonn (1986, advisor E. Reya)
Habilitation, Universität Hamburg (1992, mentor G. Kramer)

Employment: Postdoc at University of Wisconsin, Madison (1986-1988)
Fellow at CERN, Geneva (1988-1990)
Postdoc at Theory Group, DESY, Hamburg (1990-1992)
Heisenberg fellow, University of Wisconsin, Madison (1993-1996)
Research professor at APCTP, Seoul (1996-1998)
Visiting professor at IFT, São Paulo, Brazil (1998-1999)
Associate professor (C3) at TU Munich (1999-2004)
Full professor (C4) at Bonn University (2004-now)

Service: Member Particle Data Group (2003-now)
Divisional Associate Editor of Physical Review Letters (2008-now)

Selected publications

- [1] M. Drees and M.M. Nojiri: The neutralino relic density in minimal $N = 1$ Supergravity, Phys. Rev. D47 (1993) 376.
- [2] M. Drees and M.M. Nojiri: Neutralino–nucleon scattering reexamined, Phys. Rev. D48 (1993) 3483.
- [3] M. Drees, Y.G. Kim, M.M. Nojiri, D. Toya, K. Hasuko and T. Kobayashi: Scrutinizing LSP Dark Matter at the LHC, Phys. Rev. D63 (2001) 035008.
- [4] N. Borodatchenkova, D. Choudhury and M. Drees: Probing MeV Dark Matter at low-energy e^+e^- colliders, Phys. Rev. Lett. 96 (2006) 141802.
- [5] M. Drees, R.M. Godbole and P. Roy: Theory and Phenomenology of Sparticles (book), World Scientific (2004).

1.9 H. K. Dreiner

Name: DREINER, Herbert K., Professor

Place of birth: Pittsfield, MA, U.S.A.

Date of birth: November 4, 1962

Gender: male

Institute affiliation: Physikalisches Institut der Universität Bonn, Nussallee 12, 53115 Bonn

Phone number: +49-228-733822

Email: dreiner@th.pyhsik.uni-bonn.de

Present Position: Professor (C3)

Background: Studies and employment in Physics
Vordiplom, plus two semesters, Universität Bonn, Germany (1981-1983)
Dissertation (PhD) in Theoretical Particle Physics at the
University of Wisconsin-Madison (1984-1989; advisor D. V. Nanopoulos)
MS Physics (1985)
Summer Research Student at CERN (Geneva) (1987, 1988)

Employment: Postdoc. Associate, Theory Group, DESY, Hamburg, Germany (1989-1990)
Postdoc. Associate, Theoretical Physics, Univ. of Oxford, UK (1990-1993)
Postdoc. Associate, Theoretical Physics, ETH Zürich, Switzerland (1993-1995)
Senior Scientific Officer, Rutherford Laboratory, UK (1996-2000)
Professor of Theoretical Physics at University of Bonn, Germany, since 2000

Prizes: EPS HEP Outreach Prize (2009)

Selected publications:

- [1] Herbi K. Dreiner, Howard E. Haber, Stephen P. Martin: “Two-component spinor techniques and Feynman rules for quantum field theory and supersymmetry”, Phys. Rept. 494 (2010) 1-196, arXiv:0812.1594.
- [2] Herbi K. Dreiner, Christoph Luhn, Marc Thormeier: “What is the discrete gauge symmetry of the MSSM?”, Phys.Rev. D73 (2006) 075007, [arXiv:hep-ph/0512163].
- [3] Herbi K. Dreiner, Sven Heinemeyer, Olaf Kittel, Ulrich Langenfeld, Arne M. Weber, Georg Weiglein: “Mass Bounds on a Very Light Neutralino”, Eur.Phys.J. C62 (2009) 547-572, arXiv:0901.3485 [hep-ph].
- [4] H.K. Dreiner, C. Hanhart, U. Langenfeld, D.R. Phillips: “Supernovae and light neutralinos: SN1987A bounds on supersymmetry revisited”, Phys.Rev. D68 055004, 2003, [arXiv:hep-ph/0304289].
- [5] Herbert Dreiner, Moritz Huck, Michael Kramer, Daniel Schmeier, Jamie Tattersall: “Illuminating Dark Matter at the ILC”, Phys.Rev. D87 (2013) 075015, arXiv:1211.2254 [hep-ph].

1.10 G. Dvali

Name: DVALI, Gia, Professor

Place of birth: Georgia

Date of birth: May 30, 1964

Gender: male

Institute affiliation: Arnold Sommerfeld Center for Theoretical Physics,
Ludwig-Maximilians-Universität München,
Theresienstr. 37, 80333 München

Phone number: +49 89 2180-4549

Email: gd23@nyu.edu

Present Position: Professor (Chair)

Background: Studies in Physics at

Tbilisi State University (1983-1985)

Diploma 1985
Dissertation, PhD, 1992

Employment: Postdoc at High Energy Physics Group ICTP (1992)
Postdoc at INFN, Sezione di Pisa, Pisa, Italy (1993)
Paid Scientific Associate at CERN Theory Division, Geneva, Switzerland (1995)
Tenure-track Position at High Energy Physics Group ICTP Trieste, Italy (1997)
Tenure-track Assistant Professor Department of Physics, NYU, New York, USA (1998)
Tenured Associate Professor, New York University (2000)
Professor of Physics, New York University (2004)
Silver Professor of Physics (Endowed Chair Professorship) NYU (2006)
Senior Staff Member of the CERN Theory Group, Geneva, Switzerland (2007)
Professor of Theoretical Physics, at Ludwig-Maximilians-University, Munich,
&Max Planck Director at the Max Planck Institute for Physics, Munich (2010)

Prizes: David and Lucile Packard Fellow (1999)
Alfred P. Sloan Research Fellow (2000)
New York City Mayor's Award for Excellence in Science and Technology (2001)
ICTP Staff Associateship (2000-2003)
Georgian History of Science Society Award (2005)
National Science Foundation Grant (2005)
"MassTeV" Advanced Grant of the European Research Council (2008)
Distinguished Research Chair at Perimeter Institute (2008)
Humboldt Professorship (2008)

Selected publications

- [1] N. Arkani-Hamed, S. Dimopoulos and G. R. Dvali, “The Hierarchy problem and new dimensions at a millimeter”, Phys. Lett. B 429 (1998) 263
- [2] N. Arkani-Hamed, S. Dimopoulos and G. R. Dvali, “Phenomenology, astrophysics and cosmology of theories with submillimeter dimensions and TeV scale quantum gravity”, Phys. Rev. D 59 (1999) 086004
- [3] C. Deffayet, G. R. Dvali and G. Gabadadze, “Accelerated universe from gravity leaking to extra dimensions”, Phys. Rev. D 65 (2002) 044023
- [4] G. Dvali, A. Gruzinov and M. Zaldarriaga, “A new mechanism for generating density perturbations from inflation”, Phys. Rev. D 69 (2004) 023505
- [5] G. Dvali, S. Hofmann and J. Khoury, “Degravitation of the cosmological constant and graviton width”, Phys. Rev. D 76 (2007) 084006

1.11 T. Erben

Name: ERBEN, Thomas, Dr.

Place of birth: München, Germany

Date of birth: March 18, 1970

Gender: male

Institute affiliation: Argelander-Institut für Astronomie
Auf dem Hügel 71, 53121 Bonn

Phone number: +49-228-733646

Email: terben@astro.uni-bonn.de

Present Position: Permanent Staff member

Background: Studies in Physics at

Technical University of Munich (1990-1997)

Diploma (1997; advisor P. Schneider)
Dissertation, PhD, (2000; advisor P. Schneider)

Employment: EIS visitor at the European Southern Observatory (1997-1999)
PhD fellow at the Max-Planck Institute for Astrophysics (1999-2000)
Post-Doc at the Institute d'Astrophysique de Paris (2001)
Post-Doc at the Institut für Astrophysik und Extraterrestrische Forschung
(Bonn, 2002-2005)
Permanent Staff Member at the Argelander-Institut für Astronomie
(former IAEF, 2005-present)

Selected publications

- [1] Erben, T., Schirmer, M., Dietrich, J.P., et al.: “GaBoDS: The Garching-Bonn Deep Survey. IV. Methods for the image reduction of multi-chip cameras demonstrated on data from the ESO Wide-Field Imager” (2005, *Astronomische Nachrichten* 432, 326)
- [2] Erben, T., Hildebrandt, H., Lerchster, M., et al.: “CARS: the CFHTLS-Archive-Research Survey. I. Five-band multi-colour data from 37 sq. deg. CFHTLS-wide observations” (2009, *A&A* 493, 1197)
- [3] Heymans, C., van Waerbeke, L., Miller, L., Erben, T., et al.: “CFHTLenS: the Canada-France-Hawaii Telescope Lensing Survey” (2012, *MNRAS* 427, 146)
- [4] van Waerbeke, L., Mellier, Y., Erben, T., et al.: “Detection of correlated galaxy ellipticities from CFHT data: first evidence for gravitational lensing by large-scale structures” (2000, *A&A* 358, 30)
- [5] Erben, T., van Waerbeke, L., Bertin, E., et al.: “How accurately can we measure weak gravitational shear?” (2001, *A&A* 366, 717)

1.12 S. Förste

Name: FÖRSTE, Stefan, PD Dr.

Place of birth: Berlin, Germany

Date of birth: March 24, 1965

Gender: male

Institute affiliation: Physikalisches Institut der Universität Bonn,
Nußallee 12, 53115 Bonn

Phone number: +49-228-732355

Email: forste@th.physik.uni-bonn.de

Present Position: Lecturer (tenured)

Background: Studies of Physics at

Humboldt Universität Berlin (1985–1992) (including PhD)

Diplomphysiker (1990)
Dissertation (PhD) (1993 (submitted 1992); advisor H.-J. Otto)
Habilitation (2002) (Univ. Bonn)

Employment: Humboldt Universität Berlin (1992–1993)
Hebrew University, Jerusalem, Minerva-Fellow (1993–1995)
Universität München (LMU) (1995–1998)
Universität Bonn (1998–2004)
Durham University (2004–2008)
Universität Bonn (since 2008)

Selected publications

- [1] S. Förste, J. E. Kim and H. M. Lee, “General self-tuning solutions and no-go theorem,” JCAP 1303 (2013) 022 [arXiv:1301.4228 [hep-th]].
- [2] S. Förste, H. P. Nilles, P. K. S. Vaudrevange and A. Wingerter, “Heterotic brane world,” Phys. Rev. D 70 (2004) 106008 [hep-th/0406208].
- [3] S. Förste, G. Honecker and R. Schreyer, “Supersymmetric $Z(N) \times Z(M)$ orientifolds in 4-D with D branes at angles,” Nucl. Phys. B 593 (2001) 127 [hep-th/0008250].
- [4] S. Förste, Z. Lalak, S. Lavignac and H. P. Nilles, “The Cosmological constant problem from a brane world perspective,” JHEP 0009 (2000) 034 [hep-th/0006139].
- [5] S. Förste, Z. Lalak, S. Lavignac and H. P. Nilles, “A Comment on selftuning and vanishing cosmological constant in the brane world,” Phys. Lett. B 481 (2000) 360 [hep-th/0002164].

1.13 A. Hebecker

Name: HEBECKER, Arthur, Professor

Place of birth: Moscow, Russia

Date of birth: October 28, 1968

Gender: male

Institute affiliation: Institut für Theoretische Physik,
Philosophenweg 19, 69120 Heidelberg

Phone number: +49-6221-549440

Email: a.hebecker@thphys.uni-heidelberg.de

Present Position: Professor (C4)

Background: Studies in Physics at

Moscow State University (1988-1990)

Universität Frankfurt/Main (1990-1991)

Ludwig-Maximilians-Universität München (1991-1992)

Diploma, Ludwig-Maximilians-Universität München (1992, supervisor J. Wess)

Dissertation, PhD, Universität Hamburg & DESY (1995, advisor W. Buchmüller)

Employment: Stanford Linear Accelerator Center, USA, Feodor Lynen fellow (1995-1996)

Cambridge University, UK, research associate (1996-1998)

Universität Heidelberg, research associate (1998-2000)

Universität München, temporary replacement for a professor (1999-2000)

Heisenberg fellowship awarded (2000)

CERN, Geneva, research fellow (2000-2002)

DESY, Hamburg, permanent staff (2002-2004)

Universität Heidelberg, Professor for Theoretical Physics (2004-now)

Selected publications

- [1] C. T. Byrnes, M. Gerstenlauer, A. Hebecker, S. Nurmi, G. Tasinato: Inflationary infrared divergences: Geometry of the reheating surface versus δN formalism, JCAP1008 (2010) 006
- [2] G. v. Gersdorff, A. Hebecker: Kahler corrections for the volume modulus of flux compactifications, Phys. Lett. B624 (2005) 270
- [3] A. Hebecker, J. March-Russell: The structure of GUT breaking by orbifolding, Nucl. Phys. B625 (2002) 128
- [4] A. Hebecker, J. March-Russell: Randall-Sundrum II cosmology, AdS/CFT, and the bulk black hole, Nucl. Phys. B608 (2001) 375
- [5] Z. Fodor, A. Hebecker: Finite temperature effective potential to order g^4 , λ^2 and the electroweak phase transition, Nucl. Phys. B432 (1994) 127

1.14 W. Hillebrandt

Name:	HILLEBRANDT, Wolfgang, Professor
Place of birth:	Rerik, Germany
Date of birth:	February 25, 1944
Gender:	male
Affiliation	Max-Planck-Institut für Astrophysik Karl-Schwarzschild-Str. 1, 85748 Garching
Phone number:	+89-30000-2200
E-Mail:	wfh@mpa-garching.mpg.de
Present Position:	Scientific Member (Emeritus), MPI für Astrophysik, Garching Honoray Professor, Munich Technical University
Background:	Studies in Physics at Universität Köln (1964-1973) Diploma (1969) Dissertation (PhD) (1973; advisor P. Mittelstädt) Habilitation (1977) (TH Darmstadt) Research associate, Institut für Kernphysik der TH Darmstadt (1973-1978) Research group leader, MPI für Physik und Astrophysik, Institut für Astrophysik, München/Garching (1978-1985) Appointment to Scientific Member (1985) Acting Director, MPI für Astrophysik, Garching (1991-1994) Appointment, Honorary Professor for Theoretical Physics, TU München (1990) Director at the MPI für Astrophysik, Garching (1997 - 2012) Scientific Member, MPI für Astrophysik, Garching (since 1991)
Awards and honoray memberships (selection):	Academy Award, Akademie der Wissenschaften in Göttingen (1977) Physics Price, Deutschen Physikalischen Gesellschaft (1982) Chairman of the Astronomischen Gesellschaft (1990-1993) Member, Board of Directors of ECT*, Trento, Italien (1998-2001) Chairman, Supernova Working Group, IAU (2003-2009) Member, DFG Grant Committee on Cooperative Research Centres (2003-2008) Editor, Lecture Notes in Physics (since 2002) Member, Scientific Council, Center for Astronomy, Heidelberg Member, Int. Advisory Board, Oskar Klein Centre, Stockholm Lodewijk Woltjer Prize Lecture, European Astronomical Society, 2012, for fundamental contributions to the study of supernova explosions.

Selected publications

- [1] W. Hillebrandt, J.C. Niemeyer: Type Ia Supernova Explosion Models, *Ann. Rev. Astron. Astrophys* 38 (2000) 191–230.
- [2] F.S. Kitaura, H.-Th. Janka, W. Hillebrandt: Explosions of O-Ne-Mg cores, the Crab supernova, and subluminous type II-P supernovae, *Astron. Astrophys.* 450 (2006) 345–350.
- [3] R. Pakmor, M. Kromer, F.K. Röpke, S. Sim, A. Ruiter, W. Hillebrandt: Sub-luminous type Ia supernovae from the mergers of equal-mass white dwarfs with mass $0.9M_{\text{Solar}}$, *Nature* 463 (2010) 61–64.
- [4] M. Kromer, S.A. Sim, M. Fink, F.K. Röpke, I. Seitenzahl, W. Hillebrandt: Double-detonation Sub-Chandrasekhar Supernovae: Synthetic Observables for Minimum Helium Shell Mass Models, *Astrophys. J.* 719 (2010) 1067–1082.
- [5] W. Hillebrandt, M. Kromer, F.K. Röpke, A.J. Ruiter,: Towards an understanding of Type Ia supernovae from a synthesis of theory and observations, *Frontiers of Physics* 8 (2013) 116–143.

1.15 S. Hofmann

Name: HOFMANN, Stefan, Professor

Place of birth: Offenbach, Germany

Date of birth: July 6, 1971

Gender: male

Institute affiliation: Arnold Sommerfeld Center for Theoretical Physics,
Ludwig-Maximilians-Universität München,
Theresienstr. 37, 80333 München

Phone number: +49 89 2180-4110

Email: stefan.hofmann@physik.lmu.de

Present Position: Professor (W2)

Background: Studies in Physics at

Johann Wolfgang Goethe-Universität Frankfurt (1991-1992)

Diploma (1997, supervisor Andreas Schäfer)
Dissertation, PhD, (2002, advisor Dominik J. Schwarz)

Employment: Johann Wolfgang Goethe-Universität (1997-2002)
Stockholm University, Wenner-Gren Fellow (2003-2005)
Perimeter Institute, Distinguished Research Fellow (2005-2007)
NORDITA & Royal Institute of Technology, Ass.Prof. (2007-2009)
Cluster of Excellence for Fundamental Physics, JRG leader (2009-2012)
Ludwig-Maximilians-Universität München, Professor (since 2009)

Selected publications

- [1] S. Hofmann, D. J. Schwarz and H. Stoecker, "Damping scales of neutralino cold dark matter", Phys. Rev. D 64 (2001) 083507
- [2] A. M. Green, S. Hofmann and D. J. Schwarz, "The First wimpy halos", JCAP 0508 (2005) 003
- [3] G. Dvali, S. Hofmann and J. Khoury, "Degravitation of the cosmological constant and graviton width", Phys. Rev. D 76 (2007) 084006
- [4] F. Berkhahn, D. D. Dietrich and S. Hofmann, "Cosmological Classicalization: Maintaining Unitarity under Relevant Deformations of the Einstein-Hilbert Action", Phys. Rev. Lett. 106 (2011) 191102
- [5] F. Berkhahn, S. Hofmann and F. Niedermann, "Brane Induced Gravity: From a No-Go to a No-Ghost Theorem", Phys. Rev. D 86 (2012) 124022

1.16 J. Jaeckel

Name: JAECKEL, Joerg, Professor

Place of birth: Darmstadt, Germany

Date of birth: March 12, 1979

Gender: male

Institute affiliation: Institut für Theoretische Physik,
Philosophenweg 16, 69120 Heidelberg

Phone number: +49-6221-549418

Email: jjaeckel@thphys.uni-heidelberg.de

Present Position: Professor (W3)

Background: Studies in Physics at

Universität Heidelberg (1997-2000)

Diploma, Universität Heidelberg (2000, supervisor C. Wetterich)
Dissertation, PhD, Universität Heidelberg (2003, advisor C. Wetterich)

Employment: Universität Heidelberg, PhD stipend (2000-2003)
Universität Heidelberg, Research associate (2003-2004)
Fellow at DESY, Hamburg (2004-2006)
Durham University, Research associate (2006-2007))
Universität Heidelberg, Junior research group leader (2007-2008)
Durham University, Lecturer (permanent) (2007-2011))
Durham University, Reader (2011-2012))
Universität Heidelberg, Professor (W3) (2012-now)

Prizes: Otto-Haxel prize (2001)

Selected publications

- [1] M. Doran and J. Jaeckel: Loop corrections to scalar quintessence potentials, Phys. Rev. D 66 (2002) 043519
- [2] M. Ahlers, H. Gies, J. Jaeckel, J. Redondo and A. Ringwald: Laser experiments explore the hidden sector, Phys. Rev. D 77 (2008) 095001
- [3] S. A. Abel, M. D. Goodsell, J. Jaeckel, V. V. Khoze and A. Ringwald, Kinetic Mixing of the Photon with Hidden U(1)s in String Phenomenology, JHEP 0807 (2008) 124
- [4] J. Jaeckel and A. Ringwald: The Low-Energy Frontier of Particle Physics, Ann. Rev. Nucl. Part. Sci. 60 (2010) 405
- [5] P. Arias, D. Cadamuro, M. Goodsell, J. Jaeckel, J. Redondo and A. Ringwald: WISPy Cold Dark Matter, JCAP 1206 (2012) 013

1.17 E. Komatsu

Name: KOMATSU, Eiichiro, Professor

Place of birth: Takarazuka, Japan

Date of birth: September 17, 1974

Gender: male

Institute affiliation: Max-Planck-Institut für Astrophysik,
Karl-Schwarzschild-Str. 1, 85748 Garching

Phone number: +49-30000-2208

Email: komatsu@mpa-garching.mpg.de

Present Position: Director, Max-Planck-Institut für Astrophysik

Background: M.Sc. (Astronomy) Tohoku University (1999, advisor T. Futamase)
PhD. (Astronomy) Tohoku University (2001, advisors D.N. Spergel
and T. Futamase)

Employment: Princeton University, visiting student research collaborator (1999-2000)
Institute for Advanced Study, visiting member (2000-2001)
Princeton University, MAP postdoctoral fellow (2001-2003)
University of Texas at Austin, assistant professor (2003-2008)
University of Texas at Austin, associate professor (2008-2010)
University of Texas at Austin, professor (2010-2012)
Texas Cosmology Center, director (2009-2012)
Max-Planck-Institut für Astrophysik, director (2012-now)
Ludwig Maximilians Universität München, honorary professor (2012-now)

Prizes: The Astronomical Society of Japan Young Astronomer Award (2004);
Alfred P. Sloan Research Fellow (2005); The International Union of Pure
and Applied Physics (IUPAP) Young Physicist's Prize (2008);
Nishinomiya-Yukawa Memorial Prize (2010); Gruber Cosmology Prize (2012);
The American Astronomical Society Lancelot M. Berkeley - New York
Community Trust Prize for Meritorious Work in Astronomy (2013)

Selected publications

- [1] E. Komatsu, D.N. Spergel: Acoustic signatures in the primary microwave background bispectrum, *Phys. Rev. D* 63 (2001) 063002
- [2] E. Komatsu, et al.: First-year Wilkinson Microwave Anisotropy Probe (WMAP) observations: tests of Gaussianity, *Astrophys. J. Suppl.* 148 (2003) 119-134
- [3] E. Komatsu, et al.: Five-year Wilkinson Microwave Anisotropy Probe (WMAP) observations: cosmological interpretation, *Astrophys. J. Suppl.* 180 (2009) 330-376
- [4] E. Komatsu: Hunting for primordial non-Gaussianity in the cosmic microwave background, *Class. Quant. Grav.* 27 (2010) 124010
- [5] E. Komatsu, et al.: Seven-year Wilkinson Microwave Anisotropy Probe (WMAP) observations: cosmological interpretation, *Astrophys. J. Suppl.* 192 (2011) 18

1.18 M. Kowalski

Name: KOWALSKI, Marek, Professor

Place of birth: Bonn, Germany

Date of birth: May 23, 1974

Gender: male

Institute affiliation: Physikalisches Institut der Universität Bonn,
Nussallee 12, 53115 Bonn

Phone number: +49-228-735043

Email: kowalski@physik.uni-bonn.de

Present Position: Professor (W3)

Background: Studies in Physics at

Universität Hamburg (1994-1996)
Humboldt-Universität zu Berlin (1996-1999)
Diploma, Humboldt-Universität zu Berlin (1999, supervisor C. Spiering)
Dissertation, PhD, Humboldt-Universität zu Berlin (2004, advisor C. Spiering)

Employment: PhD fellowship, DESY Zeuthen (2000-2003)
Postdoctoral Fellow, Lawrence Berkeley Laboratory (2004-2005)
Research Scientist, Lawrence Berkeley Laboratory, USA (2005-2006)
Emmy Noether Group Leader, Humboldt-Universität zu Berlin (2006-2009)
Professor of Physics, Universität Bonn (since 2009)
Director of Physikalisches Institut, University Bonn (2010-2011)
Chair of the Supernova Factory Collaboration Board (2010-today)
Speaker of the Center for Detector Physics (Bund/Land Forschungsbau, since 2012)

Prizes: Hereaus diploma thesis award (2000)
Emmy Noether fellowship (2006)
Physics prize of the Göttingen Academy of Sciences and Humanities (2009)

Selected publications

- [1] C. Buton et al., Atmospheric extinction properties above Mauna Kea from the Nearby Supernova Factory +spectro-photometric data set, *Astron. & Astrophys.* 549 (2013) 8
- [2] U. Feindt, M. Kowalski, K. Paech, The self-calibrating Hubble diagram, *JCAP* 104 (2012) 001
- [3] R. Amanullah et al., Spectra and Hubble Space Telescope Light Curves of Six Type Ia Supernovae at $0.511 < z < 1.12$ and the Union2 Compilation, *Astrophys. J.* 716 (2010) 712
- [4] D. Rubin, E. Linder, M. Kowalski et al.: Looking Beyond Lambda with the Union Supernovae Data, *Astrophys. J.* 695 (2009) 291
- [5] M. Kowalski et al. (Supernova Cosmology Project): Improved Cosmological Constraints from New, Old and Combined Supernova Datasets, *Astrophys. J.*, 686 (2008) 749

1.19 B. Leibundgut

Name: LEIBUNDGUT, Bruno, Dr.

Place of birth: Basel, Schweiz

Date of birth: April 1, 1960

Gender: male

Institute affiliation: European Southern Observatory,
Karl-Schwarzschild-Strasse 2, 85478 Garching

Phone number: +49-8932006295

Email: Bruno.Leibundgut@eso.org

Present Position: Director for Science

Background: Studies in Physics at
Universität Basel (1979-1989)

Diploma (1983)
Dissertation (PhD) (1989)

Employment: Universität Basel (1984-1989)
Postdoctoral research associate at Harvard University
(1989-1991)
Postdoctoral research associate at the
University of California, Berkeley (1992-1993)
Staff astronomer at the European Southern Observatory
(since 1993, permanent since 1999)
Member EUCLID Science Study Team (2008-2011)

Prizes: Co-recipient of the Gruber Prize for Cosmology
(2007; High-z Supernova Search Team)

Selected publications

- [1] Stritzinger, M., Leibundgut, B., Walch, S., Contardo, G.: Constraints on the Progenitor Systems of Type Ia Supernovae, *A&A*, 450, 241 (2006)
- [2] Leibundgut, B.: Supernovae and Cosmology, *Gravitation and General Relativity*, 40, 221 (2008)
- [3] Blondin, S., et al.: Time dilation in Type Ia Supernova Spectra at High Redshift, *ApJ*, 682, 724 (2008)
- [4] Foley, R., et al.: Spectroscopy of High-Redshift Supernovae from the ESSENCE Project: The First Four Years, *AJ*, 137, 3731 (2009)
- [5] Goobar, A., Leibundgut, B.: Supernova Cosmology: Legacy and Future, *Annual Reviews of Nuclear and Particle Science*, 61, 251 (2012)

1.20 D. Lüst

Name: LÜST, Dieter, Professor

Place of birth: Chicago, USA

Date of birth: September 21, 1956

Gender: male

Institute affiliation: Arnold-Sommerfeld-Center for Theoretical Physics,
Ludwig-Maximilians-Universität München,
Theresienstraße 37, 80333 München

Phone number: +49-89-21804372

Email: dieter.luest@lmu.de

Present Position: Professor (C4)

Background: Studies in Physics at

TU Munich (1976/1982)
Diploma, TU Munich (1982, supervisor H. Fritzsch)
Dissertation, PhD, LMU Munich (1975, advisor H. Fritzsch)
Habilitation, LMU Munich (1990)

Employment: Postdoc at Caltech/Pasadena (1985 - 1986)
Postdoc at Max-Planck-Institut/Munich (1986 - 1988)
Fellow at CERN, Geneva (1988 - 1990)
Heisenberg fellow at CERN (1990 - 1993)
Humboldt-Universität Berlin, chair for Quantum Field Theory (1993 - 2004)
External scientific member of Max Planck Institute for Gravitational Physics, Golm (1998 - now)
Max-Planck-Institut for Physics, Munich, Director (2003 - now)
LMU Munich, chair for Mathematical Physics (2004 - now)
LMU Munich, Spokesman of Arnold-Sommerfeld-Center (2005 - now)
Member Selection Committee for A. v. Humboldt Awards (2008 - now)
Member Berlin Brandenburg Akademie der Wissenschaften (1999 - now)

Prizes: Leibniz Preis der DFG (2000),
Humboldt-Gay-Lussac Prize of French Minister of Science (2006),
ERC-Advanced Grant (2012)

Selected publications

- [1] D. Lüst: T-duality and closed string non-commutative (doubled) geometry, JHEP 1010 (2010) 084, arXiv:1010.1361
- [2] R. Blumenhagen, B. Körs, D. Lüst, S. Stieberger: Four-dimensional String Compactifications with D-branes, Orientifolds and Fluxes, Phys. Reports 445 (2007) 1, hep-th/0610327
- [3] L. Ibanez, D. Lüst: Duality Anomalies, Minimal String Unification and the Effective Low-energy Action of 4D Strings, Nucl. Phys. B382 (1992) 305, hep-th/9202046
- [4] A. Font, L. Ibanez, D. Lüst, F. Quevedo: Strong-Weak Coupling Duality and Non-Perturbative Effects in String Theory, Phys. Lett. B 249 (1990) 35
- [5] W. Lerche, D. Lüst, A. Schellekens: Chiral Four-Dimensional Heterotic Strings from Self-Dual Lattices, Nucl. Phys. B 287 (1987) 477

1.21 J. Mohr

Name: MOHR, Joseph John, Professor

Place of birth: Shattuck, Oklahoma in USA

Date of birth: February 23, 1968

Nationality: USA

Gender: male

Institute Affiliation: Ludwig Maximilians Universität Fakultät für Physik
Scheinerstraße 1, 81679 München

Phone number: +49-89-2180-5967

Email: joseph.mohr@physik.lmu.de

Present Position: Professor (Lehrstuhl), Ludwig-Maximilians-Universität, München

Background: Studies in Physics and Astronomy at
Massachusetts Institute of Technology, Bachelor of Physics (1986-1990)
Harvard University, Masters in Astronomy (1990-1992)
Harvard University, PhD in Astronomy (1992-1995)

Employment: Postdoctoral Scholar, University of Michigan (1995-1998)
Chandra Fellow, University of Chicago (1998-2000)
Assistant Professor, University of Illinois (2000-2004)
Associate Professor, University of Illinois (2004-2008)
Professor, University of Illinois (2008-2009)
Research Scientist, National Center for Supercomputing
Applications, University of Illinois (2004-2013)
Professor (W3), Chair in Cosmology and Structure Formation,
Ludwig-Maximilians-Universität München (since 2009)

Prizes: NSF graduate fellowship (1990-1993)
NASA graduate fellowship (1994-1995)
NASA Chandra Fellow (1998-2000)
Arthur H. Compton Lecturer, University of Chicago (1999)
Harvard University Bok Prize (2002)
Humboldt Fellow at MPE (2007-2008)
Fellow of the American Physical Society (since 2009)

Selected publications

- [1] Properties of the Intracluster Medium in an Ensemble of Nearby Galaxy Clusters, Mohr, J.J., Mathiesen, B. & Evrard, A.E., *The Astrophysical Journal*, 517, 627-649 (1999).
- [2] Constraints on Cosmological Parameters from Future Galaxy Cluster Surveys, Haiman, Z., Mohr, J.J. & Holder, G. *The Astrophysical Journal*, 553, 545-561 (2001).
- [3] Self Calibration in Cluster Studies of Dark Energy: Combining the Cluster Redshift Distribution, the Power Spectrum and Mass Measurements, Majumdar, S. & Mohr, J.J., *The Astrophysical Journal*, 613, 41-50 (2004).
- [4] Galaxy Clusters Discovered with a Sunyaev-Zeldovich Effect Survey, Staniszewski, Z. et al. *The Astrophysical Journal*, 701, 32-41 (2009).
- [5] X-ray Properties of the First SZE-selected Galaxy Cluster Sample from the South Pole Telescope, Andersson et al. *The Astrophysical Journal*, 738, 48-72 (2011).

1.22 V. Mukhanov

Name:	MUKHANOV, Viatcheslav, Professor
Place of birth:	Kanash, Russia
Date of birth:	October 2, 1956
Gender:	male
Institute affiliation:	Physics Department, Arnold Sommerfeld Center Theresienstr. 37, 80333 Munich
Phone number:	+49-89-21804544
Email:	mukhanov@physik.lmu.de
Present Position:	Professor (W3)
Background:	Studies in Physics at Institute for Physics and Technology (1973-1979) Diploma (1979) Dissertation (PhD.) (1982; advisor V. L. Ginzburg) Habilitation (1989) (Lebedev Institute for Physics, Moscow)
Employment:	Junior Scientific Researcher, Institute for Nuclear Research, Moscow (1982-1989) Senior Scientific Researcher, Institute for Nuclear Research, Moscow (1989-1992) Dozent at ETH, Zurich, Switzerland (1992-1997) LMU, München (since 1997), chair of theoretical physics External member of Max Planck Institute for Physics Munich (2009-now)
Prizes:	Gold Medal of the Russian Academy of Sciences Goedecke prize (1988) Oskar Klein Medal, The Royal Swedish Academy (2006) Distinguished Global Professor, NYU, USA (2008) Tomalla prize, Switzerland (2009) Blaise Pascal Chair, ENS, Paris, France (2011) Amaldi Gold Medal, Italian Gravitational Society (2012) Solvay Chair in Physics 2014 (2013)

Selected publications

- [1] V. Mukhanov, G. Chibisov: Quantum fluctuations and a nonsingular Universe, JETP Lett, 33, No.10 (1981) 532
- [2] V. Mukhanov, H. Feldman, R. Brandenberger: Theory of Cosmological Perturbations, Physics Reports 215 (1992) 203-333
- [3] C. Armendariz-Picon, T. Damour, V. Mukhanov: k-inflation, Phys.Lett. B458 (1999) 209-218
- [4] C. Armendariz-Picon, V. Mukhanov, P. Steinhardt: A Dynamical solution to the problem of a small cosmological constant and late time cosmic acceleration, Phys.Rev.Lett. 85 (2000) 4438-4441
- [5] V. Mukhanov: Quantum Cosmological Perturbations: Predictions and Observations, Eur. Phys. J. C 73 (2013) 2486

1.23 H. P. Nilles

Name: NILLES, Hans Peter, Professor

Place of birth: Konz, Germany

Date of birth: October 02, 1950

Gender: male

Institute affiliation: Bethe Center for Theoretical Physics,
Nussallee 12, 53115 Bonn

Phone number: +49-228-733247

Email: nilles@th.physik.uni-bonn.de

Present Position: Professor (C4)

Background: Studies in Physics at

Universität Bonn (1969-1975)

Diploma, Universität Bonn (1975, supervisor G. von Gehlen)

Dissertation, PhD, Universität Bonn (1978, advisor V. Rittenberg)

Habilitation, Universität Bonn (1985)

Employment: Wiss. Assistent, University of Bonn (1978-79)

Postdoctoral Research Fellow, SLAC, Stanford University, USA (1979-1981)

Fellow at CERN, Geneva (1981-1983)

Chargé de Recherche, Univ. de Genève, Switzerland (1983-1985)

Staff member at CERN, Geneva (1985-1988)

Professor of Theoretical Physics (C3), Technische Universität München (1988-1997)

Scientific Associate, Max-Planck Institut für Physik, München (1988-1998)

Visiting Research Scientist, SLAC, Stanford University, USA (1992)

Visiting Research Scientist, FNAL, Batavia, USA (1992)

Scientific Associate, CERN, Geneva (1996-1997)

Professor of Theoretical Physics (C4), Universität Bonn (since 1997)

Scientific Associate, CERN, Geneva (2005)

Director, Bethe Center for Theoretical Physics, Bonn (since 2008)

Selected publications

- [1] O. Lebedev, H. P. Nilles and M. Ratz, “de Sitter vacua from matter superpotentials,” *Phys. Lett. B* 636 (2006) 126 [arXiv:hep-th/0603047].
- [2] K. Choi, A. Falkowski, H. P. Nilles and M. Olechowski, “Soft supersymmetry breaking in KKLT flux compactification,” *Nucl. Phys. B* 718 (2005) 113 [arXiv:hep-th/0503216].
- [3] J. E. Kim and H. P. Nilles, “A Quintessential axion,” *Phys. Lett. B* 553 (2003) 1 [hep-ph/0210402].
- [4] S. Forste, Z. Lalak, S. Lavignac and H. P. Nilles, “A Comment on selftuning and vanishing cosmological constant in the brane world,” *Phys. Lett. B* 481 (2000) 360 [hep-th/0002164].
- [5] J. E. Kim and H. P. Nilles, “The μ Problem and the Strong CP Problem,” *Phys. Lett. B* 138 (1984) 150.

1.24 V. Pettorino

Name: PETTORINO, Valeria, Dr.

Place of birth: Napoli, Italy

Date of birth: August 4, 1979

Gender: female

Institute affiliation: Department of Theoretical Physics, University of Geneva.

Email: valeria.pettorino@unige.ch

Present Position: Marie Curie IEF

Background: Studies in Physics at

University of Naples (1997-2005)

Diploma, University of Naples (2002, supervisors G.Mangano, R.Miele)

Dissertation, PhD, University of Naples (2005, advisors C.Baccigalupi (SISSA), G.Mangano, R.Miele)

Employment: University of Torino, postdoc (2005-2006)

University of Heidelberg, Geneva, position/function (2006)

SISSA, Trieste, Progetto D4 Fellowship (2007)

University of Heidelberg, Alexander von Humboldt Fellow (2007-2009)

Columbia University, New York, Associate research fellow (2009)

SISSA, postdoc (2010-2012)

University of Geneva, Marie Curie IEF (2012-now)

University of Heidelberg, Junior Research Leader (starting 2014)

Member of the ESA Planck collaboration since June 2009

Member of the ESA Euclid collaboration since January 2007

Selected publications

- [1] V. Pettorino, L. Amendola, C. Baccigalupi, C. Quercellini: Constraints on coupled dark energy using CMB data from WMAP and SPT, *Phys. Rev. D* 86 (2012) 103507
- [2] V. Pettorino, N. Wintergerst, L. Amendola, C. Wetterich: Neutrino lumps and the Cosmic Microwave Background, *Phys. Rev. D* 82 (2010) 123001
- [3] M. Baldi, V. Pettorino, G. Robbers, V. Springel: Hydrodynamical N-body simulations of coupled dark energy cosmologies, *Mon. Not. Roy. Astron. Soc.* 403 (2010) 1684
- [4] V. Pettorino, C. Baccigalupi: Coupled and Extended Quintessence: theoretical differences and structure formation, *Phys. Rev. D* 77 (2008) 103003
- [5] V. Pettorino, C. Baccigalupi, F. Perrotta: Scaling solutions in scalar-tensor cosmologies, *JCAP* 0512 (2005) 003

1.25 C. Porciani

Name: PORCIANI, Cristiano, Professor

Place of birth: Livorno, Italy

Date of birth: March 31, 1967

Gender: male

Institute affiliation: Argelander-Institut für Astronomie,
Auf dem Hügel 71,
D-53121 Bonn

Phone number: +49-228-733664

Email: porciani@astro.uni-bonn.de

Present Position: Professor (W2)

Background: Studies in Physics at

Università di Pisa (1986-1993)
SISSA/ISAS Trieste (1995-1999)
STScI Baltimore (1998-1999)

Laurea, Università di Pisa (1993, supervisors F. Ferrini, S. Matarrese)
Dissertation, PhD, SISSA-ISAS Trieste (1999, advisors D.W Sciama, S. Matarrese)

Employment: Hebrew University of Jerusalem, Golda Meir prize fellow (1999-2000)
University of Cambridge, postdoctoral research associate (2000-2002)
ETH Zürich, Zwicky prize fellow (2002-2005)
ETH Zürich, Oberassistent (2005-2007)
ETH Zürich, Tenured Senior Scientist (2008)
Universität Bonn, Professor of Astrophysics (2008-now)

Selected publications

- [1] C. Porciani & P. Madau: On the Association of Gamma-Ray Bursts with Massive Stars: Implications for Number Counts and Lensing Statistics, *ApJ* 548 (2001) 522
- [2] C. Porciani, M. Magliocchetti & P. Norberg: Cosmic evolution of quasar clustering: implications for the host haloes, *MNRAS* 355 (2004) 1010
- [3] A. Pillepich, C. Porciani & O. Hahn: Halo mass function and scale-dependent bias from N-body simulations with non-Gaussian initial conditions, *MNRAS* 402 (2010) 191
- [4] O. Hahn, C. Porciani, C.M. Carollo & A. Dekel, Properties of dark matter haloes in clusters, filaments, sheets and voids, *MNRAS* 375 (2007) 489
- [5] T. Giannantonio & C. Porciani, Structure formation from non-Gaussian initial conditions: Multivariate biasing, statistics, and comparison with N-body simulations, *Phys. Rev. D.* 81 (2010) 3530

1.26 T. H. Reiprich

Name: REIPRICH, Thomas H., Professor

Place of birth: Neuwied, Germany

Date of birth: November 17, 1970

Gender: male

Institute affiliation: Argelander Institute for Astronomy,
Bonn University,
Auf dem Hügel 71, 53121 Bonn

Phone number: +49-228-733642

Email: reiprich@astro.uni-bonn.de

Present Position: Heisenberg Professor for Astrophysics (W2)

Background: Studies in Physics at

Universität-GHS Paderborn (1991–1994)
Western Michigan University (1994–1995)
Ludwig-Maximilians-Universität München (1995–1997)
Max-Planck-Institut für extraterrestrische Physik (1997–2001)

Diploma (1998)
Dissertation (PhD) (2001; advisors G. Morfill and H. Böhringer)

Employment: Western Michigan University (1995)
Max-Planck-Institut für extraterrestrische Physik (1998–2001)
Celerity Foundation Fellow University of Virginia (2001–2004)
Emmy Noether Research Group Leader (at Bonn University)
(2004–2010)
Heisenberg Professor for Astrophysics (at Bonn University)
(2010–present)

Prizes and Service: Emmy Noether Fellowship (2004)
Heisenberg Professorship (2010)
Seven invited talks at major international conferences within the last one year
Chair of space telescope time allocation committees
Chair of space telescope scientific working groups
Chair of local and scientific conference organizing committees

Selected publications

- [1] T. H. Reiprich, K. Basu, S. Ettori, H. Israel, L. Lovisari, S. Molendi, E. Pointecouteau, M. Roncarelli: Outskirts of Galaxy Clusters, *Space Science Reviews*, *Space Sci. Rev.* 177 (2013) 195, arXiv:1303.3286 (2013)
- [2] D. S. Hudson, R. Mittal, T. H. Reiprich, P. Nulsen, H. Andernach, C. L. Sarazin, What is a cooling core cluster – a detailed analysis of the cores of the HIFLUGCS clusters, *A&A*, 513, A37 (2010)
- [3] R. Mittal, D. S. Hudson, T. H. Reiprich, T. E. Clarke, AGN heating and ICM cooling in the HIFLUGCS sample of galaxy clusters, *A&A*, 501, 835 (2009)
- [4] T. H. Reiprich, D. S. Hudson, Y.-Y. Zhang, K. Sato, Y. Ishisaki, A. Hoshino, T. Ohashi, N. Ota, Y. Fujita: Suzaku Measurement of Abell 2204's Intracluster Gas Temperature Profile out to 1800 kpc, *A&A*, 501, 899 (2009)
- [5] T. H. Reiprich, H. Böhringer: The Mass Function of an X-Ray Flux-limited Sample of Galaxy Clusters, *ApJ*, 567, 716 (2002)

1.27 I. Sachs

Name: SACHS, Ivo, Professor

Place of birth: Beinwil, Switzerland

Date of birth: August 18, 1964

Gender: male

Institute affiliation: Arnold Sommerfeld Center für Theoretische Physik,
Theresienstrasse 37, 80333 München

Phone number: +49-89-21804541

Email: Ivo.Sachs@lmu.de

Present Position: Professor (C3)

Background: Studies in Physics at

EPF-Lausanne (1986-1988)
ETH-Zürich (1988-1991)

Diploma, ETH-Zürich 1991
Dissertation, PhD, ETH-Zürich (1995, advisor A. Wipf)

Employment: Scholar at the Dublin Institute for Advanced Studies (1995-1997)
Postdoctoral fellow at the Centre for Particle Theory, Durham (1997-1999)
C1-Fellowship, Ludwig-Maximilians Universität (LMU) (1999-2002)
Permanent Lecturer at Trinity College Dublin (2002-2003)
Professor of Physics, LMU, Munich (2003-)
External member of the Dublin Institute for Advanced Studies (2001-)
Visiting Scholar, UCLA, USA (2006-2007)
Visiting Scholar, Harvard University (2011- 2012)

Selected publications

- [1] D. Birmingham, I. Sachs and S. N. Solodukhin: Conformal field theory interpretation of black hole quasi normal modes, Phys.Rev.Lett. 88 (2002) 151301
- [2] J. L. Davis, M. Gutperle, P. Kraus and I. Sachs: Stringy NJL and Gross-Neveu models at finite density and temperature, JHEP 0710 (2007) 049
- [3] D. Grumiller and I. Sachs: AdS (3) / LCFT (2) Correlators in Cosmological Topologically Massive Gravity, JHEP 1003 (2010) 012
- [4] N. Moeller and I. Sachs: Closed String Cohomology in Open String Field Theory, JHEP 1107 (2011) 022
- [5] I. Sachs: Formation of Black Holes in Topologically Massive Gravity, Phys.Rev. D87 (2013) 024019

1.28 A. Sánchez

Name: SÁNCHEZ, Ariel Guillermo, Dr.

Place of birth: Córdoba, Argentina

Date of birth: May 20, 1978

Gender: male

Institute affiliation: Max-Planck Institut für Extraterrestrische Physik,
Giessenbachstr. 1, 69120 Garching

Phone number: +49-(0)89-300003776

Email: arielsan@mpe.mpg.de

Present Position: Postdoc

Background: Studies in Astronomy at

National University of Córdoba, Argentina (1997-2001)

Licenciado (Master), National University of Córdoba
(2001, supervisor D.G. Lambas)
PhD, National University of Córdoba (2006, Supervisor D.G. Lambas)

Employment: Institute of Theoretical and Experimental Astronomy (Argentina),
postdoc (2006-2007)
Max-Planck Institut für Extraterrestrische Physik, postdoc (2008-now)

Selected publications

- [1] A.G. Sánchez et al.: Cosmological parameters from cosmic microwave background measurements and the final 2dF Galaxy Redshift Survey power spectrum, *MNRAS*, 366, 189 (2006)
- [2] A.G. Sánchez, C. M. Baugh, R. Angulo: What is the best way to measure baryonic acoustic oscillations?, *MNRAS*, 390, 1470 (2008)
- [3] A.G. Sánchez, S. Cole: The galaxy power spectrum: precision cosmology from large-scale structure?, *MNRAS*, 385, 830, (2008)
- [4] A.G. Sánchez, M. Crocce, A. Cabré,, C.M. Baugh, E. Gaztañaga: Cosmological parameter constraints from SDSS luminous red galaxies: a new treatment of large-scale clustering, *MNRAS*, 400, 1643 (2009)
- [5] A.G. Sánchez et al.: The clustering of galaxies in the SDSS-III Baryon Oscillation Spectroscopic Survey: cosmological implications of the large-scale two-point correlation function, *MNRAS*, 425, 415, (2012)

1.29 S. Seitz

Name: SEITZ, Stella, Dr.

Place of birth: Rosenheim, Germany

Date of birth: October 2, 1968

Gender: female

Institute affiliation: Universitätssternwarte München,
Scheinerstr. 1, 81679 München

Phone number: +49-89-21805996

Email: stella@usm.lmu.de

Present Position: Akademischer Direktor

Background: Studies in Physics at
Ludwig Maximilians Universität (LMU) München (1987-1993)
Diploma, Ludwig Maximilians Universität (1993, supervisor J. Ehlers (MPA))
Dissertation, PhD, Ludwig Maximilians Universität (supervisor J. Ehlers (MPA))

Employment: Max-Planck Institute für Astrophysik, PhD stipend (1993-1997)
Max-Planck Institute für Astrophysik, Post-Doctoral Researcher (1997-1997)
Ludwig Maximilians Universität (LMU), Universitätssternwarte (USM),
Research Fellow (1998-2002)
Ludwig Maximilians Universität (LMU), Universitätssternwarte (USM),
Tenured Staff (2002-present)

Prizes: Otto-Hahn-Medal Award from the Max-Planck society (1998)

Selected publications

- [1] Gabasch A., Bender R., Seitz S., et al. : 2004, "The evolution of the luminosity functions in the FORS Deep Field from low to high redshift. I. The blue bands", *A&A*, 421, 41
- [2] Halkola A., Seitz S., Pannella M.: 2006, "Parametric strong gravitational lensing analysis of Abell 1689", *MNRAS*, 372, 1425
- [3] Seitz S., Schneider P.: 1996, "Cluster lens reconstruction using only observed local data: an improved finite-field inversion technique", *A&A*, 305, 383
- [4] Seitz S., Saglia R. P., Bender R., et al.: 1998, "The $z=2.72$ galaxy cB58: a gravitational fold arc lensed by the cluster MS1512+36", *MNRAS*, 298, 945
- [5] Zheng W., Postman M., Zitrin A., et al.: 2012, "A magnified young galaxy from about 500 million years after the Big Bang", *Nature*, 489, 406

1.30 P. Schneider

Name: SCHNEIDER, Peter, Professor

Place of birth: Düsseldorf, Germany

Date of birth: September 15, 1958

Gender: male

Institute affiliation: Argelander-Institut für Astronomie,
Auf dem Hügel 71, 53121 Bonn

Phone number: +49-228-733671

Email: peter@astro.uni-bonn.de

Present Position: Professor (W3)

Background: Studies in Physics at
Universität Düsseldorf (1977–1978)
Universität Bonn (1978–1983)
Diploma, Universität Bonn (1983; supervisor: J. Schmidt-Burgk)
Dissertation, PhD, MPA Garching, & Universität Bonn (1984; supervisors:
J. Ehlers & J. Schmidt-Burgk)
Habilitation, LMU München (1992, mentor R. Kudritzki)

Employment: Postdoc at the Max-Planck-Institut f. Astrophysik (1984–86)
Postdoc at the Joint Institute f. Laboratory Astrophysics, Boulder (1986–1987)
Postdoc at the Max-Planck-Institut f. Astrophysik (1988–92)
Staff position at the Max-Planck-Institut f. Astrophysik (1993–00)
Professor of Astrophysics (C4/W3), Univ. Bonn (since 2000)
Director of the Institut f. Astrophysik, Univ. Bonn (2002–05)
Director of the Argelander-Institut f. Astronomie, Univ. Bonn (2006–09)
Chairman of the Physics/Astronomy Department, Univ. Bonn (2010–12)
Editor of the Letters Section of Astronomy & Astrophysics (1998–05)
Member Selection Committee for A.v. Humboldt Fellowships (2005–12)
Coordinator of the DFG-Priority Programme 1177 (2005–11)
Member of the Astronomy Working Group of ESA (2003–06)

Prizes: Dieter-Rampacher-Preis 1985
Otto-Hahn-Medaille der Max-Planck-Gesellschaft 1985
GEFFRUB-Preis der Universität Bonn 1985
Physik-Preis der Akademie der Wissenschaften zu Göttingen 1986
Membership Deutsche Akademie der Naturforscher Leopoldina 2003

Selected publications

- [1] Kochanek, C.S., Schneider, P. & Wambsganss, J.: 2006, "Gravitational Lensing: Strong, Weak & Micro", Proceedings of the 33rd Saas-Fee Advanced Course, G. Meylan, P. Jetzer & P. North, eds. (Springer-Verlag: Berlin), including:
Schneider, P.: 2006, "Introduction to Gravitational Lensing and Cosmology", p. 1–90,
Schneider, P.: 2006, "Weak Gravitational Lensing", p. 273–455.
- [2] Schneider, P., Eifler, T. & Krause, E.: 2010, "COSEBIs: Extracting the full E-/B-mode information from cosmic shear correlation functions", A&A 520, A116
- [3] Bartelmann, M. & Schneider, P.: 2001, "Weak gravitational lensing", Physics Reports 340, 291–472.
- [4] Schneider, P., van Waerbeke, L., Jain, B. & Kruse, G.: 1998, "A new measure for cosmic shear", MNRAS 296, 873–892.
- [5] Schneider, P.: 1996, "Detection of (dark) matter concentrations via weak gravitational lensing", MNRAS 283, 837–853.

1.31 V. Springel

Name: SPRINGEL, Volker, Professor

Place of birth: Backnang, Germany

Date of birth: November 18, 1970

Gender: male

Institute affiliation: Heidelberg Institute for Theoretical Studies (HITS),
Schloss-Wolfsbrunnenweg 35, 69118 Heidelberg

Phone number: +49-6221-533241

Email: volker.springel@uni-hd.de

Present Position: Professor (W3)

Background: Studies in Physics at
Universität Tübingen (1991-94)
University of California at Berkeley (1994-1995)

Diploma, Universität Tübingen (Oct 1996)

Dissertation (PhD), LMU München, (Feb 2000; ad. S.D.M. White)

Employment: Postdoc Harvard University (1999-2000)
Postdoc at MPA (2001-2003)
Tenure-track position at MPA (2003-2005)
Tenured research group leader at MPA (2005-2010)
University of Heidelberg, Professor for Theoretical Astrophysics (since 2010)
External member of the Max Planck Institute for Astronomy (since 2012)

Prizes: Otto-Hahn Medal (2000)
Heinz-Maier Leibnitz Prize (2004)
International Media Award for Science and Art (2005)
Selected into the "Eleven of Science" (2006)
Elected as member of the "Young Academy" at the Leopoldina/BBAW (2006)
Klung-Wilhelmy-Weberbank Prize (2009)
Starting Grant of the European Research Council (2012)

Selected publications

- [1] V. Springel, S. D. M. White, A. Jenkins, C. S. Frenk, N. Yoshida, L. Gao, J. Navarro, R. Thacker, D. Croton, J. Helly, J. A. Peacock, S. Cole, P. Thomas, H. Couchman, A. Evrard, J. Colberg, F. Pearce: Simulations of the formation, evolution and clustering of galaxies and quasars, *Nature* (2005), 435, 629
- [2] V. Springel: The cosmological simulation code GADGET-2, *Mon. Not. of the R. Astron. Soc.* (2005), 364, 1105
- [3] V. Springel, S. D. M. White, C. S. Frenk, J. F. Navarro, A. Jenkins, M. Vogelsberger, J. Wang, A. Ludlow, A. Helmi: Prospects for detecting supersymmetric dark matter in the Galactic halo, *Nature* (2008), 456, 73
- [4] V. Springel, J. Wang, M. Vogelsberger, A. Ludlow, A. Jenkins, A. Helmi, C. S. Frenk, S. D. M. White: The Aquarius Project: the subhalos of galactic halos, *Mon. Not. of the R. Astron. Soc.* (2008), 391, 1685
- [5] V. Springel: E pur si muove: Galilean-invariant cosmological hydrodynamical simulations on a moving mesh, *Mon. Not. of the R. Astron. Soc.* (2010), 401, 791

1.32 T. Weigand

Name: WEIGAND, Timo, Professor

Place of birth: Freiburg, Germany

Date of birth: February 28, 1979

Gender: male

Institute affiliation: Institut für Theoretische Physik,
Philosophenweg 16, 69120 Heidelberg

Phone number: +49-6221-549441

Email: t.weigand@thPhys.Uni-Heidelberg.DE

Present Position: Research Group Leader (A14), apl. Prof.

Background: Studies in Physics at
LMU, München (1999-2002)
Part III of the Mathematical Tripos, Cambridge University (2002-2003)

Certificate of Advanced Study in Mathematics, Cambridge (2003)
PhD., Cambridge University and LMU, München (2006)
(supervisor: D. Lüst)

Employment: Max-Planck-Institut für Physik, München (2004-2006)
Research Associate, University of Pennsylvania (2006-2008)
Research Associate, SLAC National Accelerator Laboratory and
Stanford University (2008-2009)
offer for Junior Professorship (W1), Universität Hamburg (2009)
Research Group Leader, Universität Heidelberg (since 2009)
apl. Prof. (since 2013)

Awards: Maximilianeum Foundation (1998)
Bayerische Begabtenförderung (1998)
Studienstiftung des Deutschen Volkes (2002)
Trinity Hall Parks Prize, Cambridge (2003)
Otto-Hahn-Medal of the Max-Planck-Society (2006)

Selected publications

- [1] R. Blumenhagen, M. Cvetič, T. Weigand: Spacetime instanton corrections in 4D string vacua: The Seesaw mechanism for D-Brane models, Nucl.Phys. B771 (2007) 113-142
- [2] R. Blumenhagen, T. Grimm, B. Jurke, T. Weigand: Global F-theory GUTs, Nucl.Phys. B829 (2010) 325-369
- [3] T. Grimm and T. Weigand: On Abelian Gauge Symmetries and Proton Decay in Global F-theory GUTs, Phys.Rev. D82 (2010) 086009
- [4] A. Hebecker, S. Kraus, S. Steinfurt, D. Lüst, T. Weigand: Fluxbrane Inflation, Nucl.Phys. B854 (2012) 509-551
- [5] C. Mayrhofer, S. Krause, T. Weigand: G4 flux, chiral matter and singularity resolution in F-theory compactifications, Nucl.Phys. B858 (2012) 1-47

1.33 J. Weller

Name: WELLER, Jochen, Professor

Place of birth: Schramberg, Germany

Date of birth: November 22, 1969

Gender: male

Institute affiliation: Universitäts-Sternwarte München,
Scheinerstrasse 1, 81679 München

Phone number: +49-89-2180-5976

Email: jochen.weller@usm.lmu.de

Present Position: Professor (W2)

Background: Studies in Physics at
Universität Karlsruhe (1990-1996)
Diploma, Universität Karlsruhe (1996, supervisor F. Klinkhamer)
PhD Program in Theoretical Physics/Cosmology at:
Imperial College, London, UK (1996-2000)
Dissertation, PhD, Imperial College London, UK (2000, advisor A. Albrecht)

Employment: Max-Planck-Institute for Extraterrestrial Physics, Garching, Germany,
Affiliate (05/2009-now)
Faculty of Physics, University Observatory,
Ludwig-Maximilians University, Munich, Germany, Professor (10/2008-now)
Department of Physics and Astronomy, University College London, UK,
Lecturer (10/2005 - 9/2008)
Theoretical Astrophysics Group, Fermilab, USA, David N. Schramm Fellow
(9/2004 - 8/2005)
Institute of Astronomy, University of Cambridge, UK,
Fixed Term Lecturer (10/2003 - 9/2004)
Institute of Astronomy, University of Cambridge, UK, PDRA (Leverhulme Fellow)
(10/2002 - 9/2003)
Department of Applied Mathematics and Theoretical Physics,
University of Cambridge, UK, PDRA (10/2000 - 9/2002)
Excellence Cluster for Origin and Structure of the Universe, Garching, Germany,
Junior Research Group Leader, Research Area Coordinator (10/2008-now)
Trapnell Fellowship at King's College, Cambridge (2001-2004)

Affiliations Core Team Member Planck Satellite HFI
Member of the Dark Energy Survey (DES)
(co-coordinator Theory and Combined Probes Working Group)
Member of Euclid (co-coordinator Cluster Science Working Group)
Member of PanStarrs1 Consortium
Member of HETDEX Consortium
Member of eROSITA Collaboration
Member of the German SKA Consortium

Selected publications

- [1] L. D. Shaw, J. Weller, J. P. Ostriker, and P. Bode: Statistics of Physical Properties of Dark Matter Clusters, *ApJ*, 646 (2006) 815
- [2] J. Weller and A. M. Lewis: Large-scale cosmic microwave background anisotropies and dark energy, *MNRAS*, 346 (2003) 987
- [3] S. L. Bridle, A. M. Lewis, J. Weller, and G. Efstathiou: Reconstructing the primordial power spectrum, *MNRAS*, 342 (2003) L72
- [4] J. Weller and A. Albrecht: Future supernovae observations as a probe of dark energy, *Phys. Rev. D* 65 (2002) 103512
- [5] D. Rapetti, S. W. Allen, and J. Weller: Constraining dark energy with X-ray galaxy clusters, supernovae and the cosmic microwave background, *MNRAS*, 360 (2005) 555

1.34 C. Wetterich

Name: WETTERICH, Christof, Professor

Place of birth: Freiburg, Germany

Date of birth: April 12, 1952

Gender: male

Institute affiliation: Institut für Theoretische Physik,
Philosophenweg 16, 69120 Heidelberg

Phone number: +49-6221-549340

Email: c.wetterich@thphys.uni-heidelberg.de

Present Position: Professor (C4)

Background: Studies in Physics at

Université Paris VII (1972-1973)

Universität Köln (1973-1975)

Universität Freiburg (1975-1978)

Diploma, Universität Freiburg (1978, supervisor J. Honerkamp)

Dissertation, PhD, Universität Freiburg (1979, advisor J. Honerkamp)

Habilitation, Universität Freiburg (1983, mentor J. Honerkamp)

Employment: University of Freiburg, different positions, postdoc (1977-1981)
Fellow at CERN, Geneva, (1981-1983)
Universität Bern, postdoc (1983-1985)
CERN, Geneva, Heisenberg Stipendium (1985)
DESY, Hamburg, permanent staff (1985-1992)
Universität Heidelberg, chair of theoretical physics (1992-now)
Universität Heidelberg, Faculty of Physics and Astronomy, Dean (1999-2000)
Member Scientific Council DESY (1996-1998)
Member Selection Committee for A. v. Humboldt Awards (1998-2008)
Member Heidelberger Akademie der Wissenschaften (2006-now)
External member of Max Planck Institute for Nuclear Physics Heidelberg (2006-now)

Prizes: Goedecke prize (1979)
Max-Planck research prize (2005)
ERC advanced grant (2012)

Selected publications in cosmology

- [1] C. Wetterich: Cosmology and the fate of dilatation symmetry, Nucl. Phys. B302 (1988) 668
- [2] C. Wetterich: The cosmon model for an asymptotically vanishing time dependent cosmological 'constant', Astron. Astrophys. 301 (1995) 321-328
- [3] C. Wetterich: Crossover quintessence and cosmological history of fundamental 'constants', hep-ph/0301261, Phys. Lett. B561 (2003) 10-16
- [4] R. R. Caldwell, M. Doran, C. M. Mueller, G. Schafer, C. Wetterich: Early quintessence in light of WMAP, Astrophys. J. 591 (2003) L75
- [5] L. Amendola, M. Baldi, C. Wetterich: Quintessence cosmologies with a growing matter component, arXiv: 0706.3064, Phys. Rev. D78 (2008) 023015

1.35 S. White

Name: WHITE, Simon David Manton, Professor

Place of birth: Ashford, Kent, England

Date of birth: September 30, 1951

Gender: male

Institute affiliation: Institut für Astrophysik
Karl-Schwarzschild-Strasse 1, 85748 Garching

Phone number: +49-89-30000-2211

Email: swhite@mpa-garching.mpg.de

Present Position: Professor (C4)

Background:

1972 BA in Mathematics, from Jesus College, Cambridge

1974 MSc in Astronomy from the University of Toronto

1977 PhD in Astronomy from the University of Cambridge

Employment:

1977–1978 Lindemann Fellow, Department of Astronomy, UC Berkeley

1979–1980 Research Fellow, Churchill College Cambridge.

1980–1984 Senior Fellow, Space Sciences Laboratory, UC Berkeley

1984–1987 Associate Prof. Steward Observ., Univ. of Arizona.

1987–1991 Professor, Steward Observatory, Univ. of Arizona.

1991–1994 Sheepshanks Reader in Astronomy, University of Cambridge.

1994– Scientific Member, Max Planck Society.

1994– Honorary Professor, Ludwig-Maximilians-Univ. Munich

1994– Director, Max-Planck-Institut für Astrophysik, Garching.

Prizes:

Helen B. Warner Prize (1986), Max-Planck-Forschungspreis (2000)

Dannie Heinemann Prize (2005), Gold Medal, R. Astron. Soc. (2006)

Honorary doctorate (D.Sc.) Durham (2007) European Latsis Prize (2008)

Max-Born-Preis (2010), Gruber Cosmology Prize (2011)

Honorary Professorship, Shanghai Astronomical Obs. (1999) and

National Obs. of China (2001)

Academics:

Royal Society (1997), Leopoldina (2005)

US Nat. Academy of Sciences (2007), Academia Europaea (2009)

Selected publications

- [1] Angulo R.E. and S.D.M. White: One simulation to fit them all changing the background parameters of a cosmological N-body simulation. *Mon. Not. R. Astron. Soc.* 405, 143 (2010).
- [2] Guo, Q., S.D.M. White, M. Boylan-Kolchin et al.: From dwarf spheroidals to cD galaxies: simulating the galaxy population in a Lambda CDM cosmology. *Mon. Not. R. Astron. Soc.* 413, 101 (2011).
- [3] Vogelsberger, M. and S.D.M. White: Streams and caustics: the fine-grained structure of Lambda cold dark matter haloes. *Mon. Not. R. Astron. Soc.* 413, 1419 (2011).
- [4] Angulo, R., V. Springel, S.D.M. White et al.: Scaling relations for galaxy clusters in the Millennium-XXL simulation. *Mon. Not. R. Astron. Soc.* 426, 2046 (2012).
- [5] Overzier R., G. Lemson et al. (incl. S.D.M. White): The Millennium Run Observatory: first light. *Mon. Not. R. Astron. Soc.* 428, 778 (2013).

1.36 G. Wolschin

Name: WOLSCHIN, Georg, Professor

Place of Birth: Bremerhaven, Germany

Date of Birth: November 8, 1948

Gender: male

Institute affiliation: Institut für Theoretische Physik,
Philosophenweg 16, 69120 Heidelberg

Phone number: +49-6221-549415

Email: wolschin@uni-hd.de

Present Position: Scientific Coordinator; Prof.

Background: Studies in Physics at
University of Freiburg (1968-1973)

Diploma (1973, supervisor J. Hüfner)
Dissertation (PhD) (1976; TU Darmstadt,
advisors N.K. Glendenning and F. Beck)
Habilitation (1982; Univ. Heidelberg, mentor H. A. Weidenmüller)

Employment: Lawrence Berkeley National Laboratory (1974-1976)
Universität Heidelberg (1976-1981)
Max Planck Institut, Heidelberg (MPIK) (1981-1983)
Editor Spektrum d. Wissenschaft, Heidelberg (1983-1990)
Editor/Dep. head Springer Verlag, Heidelberg (1990-1991)
Program head J.A. Barth/ Huethig, Leipzig-HD (1991-1993)
Freelance scientist, journalist Heidelberg (1993-2001)
Docent Universität Heidelberg / freelance scientist, journalist (2001-2006)
Scientific Manager TRR33, Docent Universität Heidelberg (2006-2012)
Scientific Coordinator TRR33, apl. Professor Univ. Heidelberg (since 2012)

Fellowships: JSPS invitation fellowship, Japan, 2005

Selected publications

- [1] G. Wolschin: Particle production sources at LHC energies, J. Phys. G40 (2013) 045104.
- [2] F. Nendzig and G. Wolschin: Upsilon suppression in PbPb collisions at LHC energies, Phys. Rev. C87 (2013) 024911.
- [3] Y. Mehtar-Tani and G. Wolschin: Baryon Stopping as a new probe of geometric scaling, Phys. Rev. Lett. 102 (2009) 182301.
- [4] G. Wolschin: Relativistic Diffusion Model, Eur. Phys. J. A5 (1999) 85.
- [5] G. Wolschin: Equilibration in finite fermion systems, Phys. Rev. Lett. 48 (1982) 1004.

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