

Curriculum Vitae **WAMBSGANSS, Joachim**

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Date & place of birth: March 9, 1961, Landau, Germany

Nationality: German

Present position: Full Professor (C4/W3)

Background: 2008 – 2009 Visiting Professor, Princeton University
2005 – now Director, Zentrum für Astronomie der Universität Heidelberg (ZAH)
2004 – now Full Professor (C4), Heidelberg University, and Director of Astronomisches Rechen-Institut (ARI)
1999 – 2004: Associate Professor (C3), Potsdam University
2000 – 2001: Visiting Professor, University of Melbourne
1999: Habilitation, Potsdam University
1994 – 1999: Postdoc/staff, Astrophysikalisches Institut Potsdam
1992 – 1994: Postdoc, MPI für Astrophysik, Garching
1990 – 1992: Postdoc, Princeton University
1990: PhD in Astronomy, LMU München/MPA Garching
1987 – 1988: Visiting Student, Princeton University
1987: Diploma in Physics, LMU München
1981 – 1987: Student of Physics and Astronomy:
1983-1987 Ludwig-Maximilians-Universität München
1981-1983 Ruprecht-Karls-Universität Heidelberg

Fellowships, 2008 – 2009: Bohdan-Paczynski-Visitorship, Princeton University
Honors & Awards: 2000 – 2001: Senior Research Fellowship of Australian Research Council
1990 – 1992: Postdoc-Fellowship/-Position: Princeton University
1987 – 1988: Postgraduate-Fellowship of DAAD
1981 – 1987: Fellowship of “Studienstiftung des deutschen Volkes”

Research Interests

- Search for extrasolar planets
- Quasars, Galaxy Clusters, Gamma-ray Bursts
- Strong Gravitational Lensing:
 - Multiple Quasars
 - Giant Luminous Arcs
 - Microlensing
- Extragalactic Astrophysics and Cosmology:
 - Dark Matter
 - Hubble Constant
- Simulation/Modelling/Observations/Analysis
- Astronomical Data/Simulations:
 - eScience
 - Virtual Observatory
 - Data Storage, (Open) Access, Use

Scientific Committees (selection)

AG Primärdaten, Schwerpunktinitiative Digitale Information (as representative of HRK) (2009 – now)
Kuratorium “Internationales Wissenschaftsforum Heidelberg” (2008 – now)
Auswahlkommission Promotionspreis Klaus-Tschira-Stiftung (2007 – now)
Board Member, IMPRS Astronomy and Cosmic Physics (2006 – now)
Advisory Council, Research Magazine “Ruperto Carola” of Heidelberg University (2005 – now)
Member of ESO OPC (Observing Program Committee) und “Panel Member” (2004 – 2006)
Kuratorium, Webportal “Welt der Physik”, DPG/BMBF (2004 – 2010)
Hubble Space Teleskop, TAC (Time Allocation Committee), 2004
Editorial Board and Subject Editor, online magazine “Living Reviews in Relativity”, <http://www.relativity.livingreviews.org> (1998 – now)
Referee for Nature, Science, Monthly Notices of the Royal Astronomical Society, Astronomy & Astrophysics, Astrophysical Journal, Astronomical Journal
Referee for Humboldt Foundation, German Academic Exchange Service (DAAD), Deutsche Forschungsgemeinschaft (DFG), German-Israel-Foundation (GIF), Australian Research Council (ARC)

Selection of important publications

- [1] **Wambsganss, J.**, Ostriker, J.P., Bode, P., 2008: “*The Effect of Baryon Cooling on the Statistics of Giant Arcs and Multiple Quasar*”, ApJ **676**, 753
- [2] Fohlmeister, J., Kochanek, C.S., Falco, E.E., Morgan, C.W., **Wambsganss, J.**, 2008: “*The Rewards of Patience: An 822 Day Time Delay in the Gravitational Lens SDSS 1004+4112*”, ApJ **676**, 761
- [3] Beaulieu, J.P. et al. (incl. **Wambsganss, J.**), 2006: “*Discovery of a cool planet of 5.5 Earth masses through gravitational microlensing*”, Nature, **439**, 437
- [4] **Wambsganss, J.**, Bode, P., Ostriker, J.P., 2005: “*Gravitational lensing in a concordance Λ CDM universe: The importance of secondary matter along the line of sight*”. ApJ **635**, L1
- [5] **Wambsganss, J.**, Bode, P., Ostriker, J.P., 2004: “*Giant arc statistics in concordance with a concordance Λ CDM universe*”, ApJ **606**, L93
- [6] **Wambsganss, J.**, 2003: “*Astronomy: Wide-angle lens*”, Nature **426**, 781
- [7] Schechter, P.L., **Wambsganss, J.**, 2002: “*Quasar Microlensing at High Magnification and the Role of Dark Matter: Enhanced Fluctuations and Suppressed Saddle Points*”, ApJ **580**, 685
- [8] **Wambsganss, J.**, 2001: “*Gravity’s Kaleidoscope*”, Scientific American, 285, 52 (May 2001)
- [9] **Wambsganss, J.**, Cen, R., Xu, G., Ostriker, J.P., 1997: “*Effects of Weak Gravitational Lensing from Large-Scale Structure on the determination of q_0* ”, ApJ **475**, L81
- [10] **Wambsganss, J.**, Paczynski, B., Schneider, P., 1990: “*Interpretation of the microlensing event in QSO 2237+0305*”, ApJ **358**, L33

Books:

- [1] Schneider, P., Kochanek, C.S., **Wambsganss, J.**: “*Gravitational Lensing: Strong, Weak & Micro*”, Saas-Fee Advanced Course 33 (Springer, Berlin, 2006)
- [2] Petters, A.O., Levine, H., **Wambsganss, J.**: “*Singularity Theory and Gravitational Lensing*” (Birkhäuser, Basel, 2001)