

# SEBASTIAN F. HOENIG

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## — Curriculum Vitae —

### Main research interests

- Extragalactic astrophysics*
  - Growth of supermassive black holes and connection to galaxy evolution
  - Active Galactic Nuclei (AGN) and unification
  - Accretion and feedback mechanisms
- Modeling/theory*
  - 3D and time-resolved radiative transfer simulations in a dusty medium
  - Radiation pressure on dust and radiation-limited accretion
- Observations*
  - High-angular resolution infrared interferometry, imaging and spectroscopy
  - Optical and IR variability / reverberation mapping
  - Distance scales, cosmology with AGN

### Academic achievements

- 47 refereed publications, 15 as first author (including one in *Nature*), 12 as second author; 1500+ citations (h-index 23)
- 1.9M EUR in grants as PI
- PI and Col of 70+ successful observing proposals on major ground- and space-based facilities, including VLT, VLTI, Keck, Lick, CHARA, *Spitzer*, *Herschel*, Gemini, and GranTeCan

### Education

- 11/2004–01/2008 **PhD (Dr. rer. nat.) in astronomy *summa cum laude***  
*Thesis: Clumpy Dust Tori in Active Galactic Nuclei*  
Max-Planck-Institute for Radio Astronomy (MPIfR) and University of Bonn
- 10/2001–08/2004 **Diplom in physics (M.Sc. equivalent)**  
University of Heidelberg
- 10/1999–09/2001 **Vordiplom in physics (B.Sc. equivalent)**  
University of Heidelberg

### Employment history

- 03/2016– **Associate Professor**  
Department of Physics & Astronomy, University of Southampton, UK
- 09/2014–02/2016 **Lecturer**  
Department of Physics & Astronomy, University of Southampton, UK
- 03/2014–02/2016 **Marie Curie fellow**  
DARK Cosmology Center (DK) & University of Southampton (UK)
- 09/2013–08/2014 **Independent DARK fellow**  
DARK Cosmology Center, Niels-Bohr-Institute, University of Copenhagen
- 06/2013–08/2013 **DFG (German Science Foundation) reintegration fellow**  
Institute for Theoretical Physics and Astrophysics, University of Kiel
- 02/2010–05/2013 **DFG (German Science Foundation) fellow**  
Department of Physics, University of California Santa Barbara
- 02/2009–01/2010 **Senior postdoctoral research associate**  
Division for IR Interferometry, Max-Planck-Institute for Radio Astronomy (MPIfR)
- 02/2008–01/2009 **Postdoctoral research associate**  
Division for IR Interferometry, Max-Planck-Institute for Radio Astronomy (MPIfR)

## Major awards and distinctions

- 2015 **ERC Starting Grant**  
European Research Council, European Union
- 2013 **Marie Curie fellowship**  
European Commission, European Union
- 2010 **DFG (German Science Foundation) fellowship**  
Department of Physics, University of California Santa Barbara

## Scientific and teaching grants

### Scientific grants

- 2015 **ERC Starting Grant *DUST-IN-THE-WIND***  
PI S. Hoenig (EUR 1,475,171 / GBP 1,135,000)
- 2015 **STFC New Applicant grant**  
PI S. Hoenig (EUR 46,500 / GBP 35,826)
- 2014 **PhD course teaching grant**  
PI S. Hoenig (DKK 75,000 / EUR 10,000 / GBP 7,600)
- 2013 **Marie Curie fellowship grant (IIF, No. 623804)**  
PI S. Hoenig (EUR 231,000 / GBP 177,000)
- 2013 **DFG (German Science Foundation) reintegration fellowship grant (Ho4368/4-1)**  
PI S. Hoenig (EUR 6,400 / USD 4,920)
- 2011–2013 **Herschel/JPL research grant (OT1\_pgandhi\_1)**  
*Title: Geometrically-thick buried AGN*; Science PI P. Gandhi (USD 52,000 / EUR 45,500 / GBP 35,000)
- 2010–2014 **DFG (German Science Foundation) research grant (Ho4368/2-1)**  
*Title: The heart of galaxies in the infrared*; PI S. Hoenig (EUR 5,800 / GBP 4,450)
- 2010–2013 **DFG (German Science Foundation) fellowship grant (Ho4368/1-1)**  
PI S. Hoenig (EUR 140,000 / GBP 108,000)

### Selected recent presentations

- 2016 **Invited Speaker** — Observatory Seminar, Observatoire de Strasbourg, France
- 2016 **Invited Speaker** — Astronomy Seminar, University of Leicester, UK
- 2015 **Invited Speaker** — Astronomy Seminar, University of Warwick, UK
- 2015 **Invited Speaker** — Astrophysics Seminar, University of Exeter, UK
- 2015 **Invited Speaker** — Munich Joint Astronomy Colloquium, MPA/MPE/ESO/TU Munich, Germany
- 2015 **Invited Lecturer** — VLT Summer School 2015 (September 6-13), Cologne, Germany
- 2015 **Invited Speaker** — EWASS (June 22-26) special session, La Laguna, Spain
- 2015 **Contributing Speaker** — conference “ESO in the 2020s” (January 19-22), Munich, Germany
- 2014 **Invited Speaker** — ESO conference “High-Angular Resolution 2014” (November 24-28, 2014), Garching, Germany
- 2014 **Invited Key Speaker** — COSPAR Scientific Assembly Event “Challenges in the Unified Model of AGN” (August 2-10, 2014), Moscow, Russia
- 2014 **Invited Speaker** — EWASS (June 30 - July 4) special session, Geneva, Switzerland

### Teaching experience

- 2016 **2nd year lab marking & viva sessions**  
University of Southampton, UK
- 2015 **Summer School Lecturer**  
University of Cologne, Germany  
*Level: undergraduate and postgrad students*
- 2014– **Academic and personal tutor for 1st to 4th year undergraduate students**  
University of Southampton, UK

*Teaching experience (cont.)*

- 2014 **Lecturer & teaching grant PI of graduate course**  
***From light to dark — the growing phase of supermassive black holes***  
 University of Copenhagen, Denmark  
*Level: undergraduate and postgrad students*
- 2012 **Astro 1401 honors section guest lecturer (September 26, 2012)**  
 Texas Tech University, Lubbock, TX  
*Topic: Energy production in the sun*  
*Level: 1st year science and non-science majors*
- 2009 – 2010 **Lecturer of Introduction to IDL (Interactive Data Language)**  
 Max-Planck-Institute for Radio Astronomy  
*Level: postgraduate course*
- 2009 **Supervisor of Astrophysical Seminar**  
 University of Bonn  
*Level: undergraduate course*
- 2002 – 2003 **Teaching assistant of Analysis I**  
 Department of Mathematics, University of Heidelberg  
*Level: 1st year problem class*
- 2002 **Teaching assistant of Analysis II**  
 Department of Mathematics, University of Heidelberg  
*Level: 1st year problem class*
- 2001 – 2002 **Teaching assistant of Algebra I**  
 Department of Mathematics, University of Heidelberg  
*Level: 1st year problem class*

**Thesis supervision**

- 2016– **PhD supervisor of Marta Venanzi**  
 University of Southampton
- 2016– **PhD supervisor of James Leftley**  
 University of Southampton
- 2015– **PhD supervisor of Bella Boulderstone**  
 University of Southampton
- 2015– **MPhys supervisor of 3 final year students**  
 University of Southampton
- 2015– **PhD co-supervisor of Jens Juel Jensen**  
 University of Copenhagen, Denmark
- 2008 – 2012 **PhD co-supervisor of Daniel Asmus**  
 ESO/Univ. of Kiel (Germany) PhD thesis “*Mid-IR emission in low-luminosity AGN*”
- 2009 – 2010 **MSc supervisor of Jorge Barrera**  
 University of Bonn master thesis “*The mid-IR emission from narrow-line region clouds in NGC 1068*”

**Expert assignments and service**

- 2016 **Scientific Organising Committee**  
 Reverberation Mapping workshop to be held October 2016, China
- 2016 **PhD opposition committee for Dr. Noel Lopez Gonzaga**  
 Leiden University, Netherlands
- 2015–2016 **OPC member-at-large (P98) and OPC panel member (P96-97)**  
 Time allocation committee, European Southern Observatory (ESO)
- 2015 **Chair of Scientific Organising Committee and co-organiser**  
 conference *Torus 2015*, 4-17 September 2015, Winchester, UK
- 2015 **STFC Peer Reviewer**  
 Astronomy research grants, Science & Technology Council, UK
- 2014– **Science Working Group Leader**  
 Extragalactic Science case for “Planet Formation Imager” project

*Expert assignments and service (cont.)*

- 2014 **External fellowship assessor**  
*Addison-Wheeler Fellowship*, Durham University, UK
- 2013/2014 **Scientific Organizing Committee**  
*ESO VLTI community days* (January 15-16, 2014), ESO/University of Grenoble, France
- 2013 **NSF AST panel member**  
National Science Foundation (NSF), Arlington, VA, USA
- 2012 **Scientific Organising Committee**  
*AGN/Torus Workshop 2012* (December 5-7), UT San Antonio
- 2012–2013 **Lunch Seminar Organiser**  
Physics Department, University of California Santa Barbara
- 2011 **Reviewer for FONDECYT research grant program**  
National Commission for Science and Research, Chile
- 2009 **Organizing committee of the 2009 Open House Day**  
University of Bonn and Max-Planck-Institute for Radio Astronomy
- 2008–2010 **Member of the selection committee of the International Max Planck Research School IMPRS**  
University of Bonn and Max-Planck-Institute for Radio Astronomy
- since 2007 **Referee** for *The Astrophysical Journal*, *The Astrophysical Journal Letters*, *Monthly Notices of the Royal Astronomical Society*, and *Astronomy & Astrophysics*
- 2006–2007 **Team member (science case definition)** in Phase A study of 2nd generation VLTI Spectro-Imager *VSI*

**Selected outreach activities**

- 2015 **TORUS 2015 public outreach event** — in the programme of the TORUS2015 conference, Winchester, UK
- 2014 **Lead on joint U of Southampton, U of Copenhagen, W.M. Keck Observatory press release featuring recent science result** — *Title: "Eye of Sauron" provides new way of measuring distances to galaxies*
- 2013 **Lead on joint ESO, Durham U., UCSB, MPG, Kiel U. press release featuring recent science result** — *Title: Dusty surprise around giant black hole*
- 2013 **Invited returning speaker** — Ventura County Astronomical Society (VCAS), Moorpark College, Moorpark, CA, USA
- 2013 **Invited speaker** — Santa Barbara High School Robotics Club, Santa Barbara, CA, USA
- 2012 **UCSB press release featuring recent science result** — *Title: Three-Telescope Interferometry Allows Astrophysicists to Observe How Black Holes are Fueled*
- 2012 **Invited speaker** — VCAS, Moorpark College, Moorpark, CA, USA
- 2009 **Organizing committee of the 2009 Open House Day** — University of Bonn and Max-Planck-Institute for Radio Astronomy
- 2008 **Public talk at the 2008 Open House Day** — Effelsberg Radio Telescope Open House Day
- 2008 **Invited speaker at the MPIfR outreach talk series** — Bad Münstereifel, Germany
- 2007 **Invited speaker** — Messelberg Observatory, Donzdorf, Germany
- 2006 **Invited speaker** — Public Observatory, Darmstadt, Germany

## References

(1) Prof. Robert Antonucci

*University of California, Santa Barbara*

*UCSB Department of Physics, Broida Hall, Santa Barbara, CA 93106*

*Email: antonucci@physics.ucsb.edu*

*Phone: +1-805-893-4350*

*Relation: scientific collaborator, previous host, and expert in active galactic nuclei*

(2) Prof. Julian H. Krolik

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*JHU, Dept. of Physics and Astronomy, 3400 N. Charles St., Baltimore, MD 21218-2686, USA*

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*Relation: distinguished expert in the field of AGN*

(3) Prof. Andy Lawrence

*Regius Professor of Astronomy, Royal Observatory Edinburgh*

*Institute for Astronomy, ROE, Blackford Hill, Edinburgh EH9 3HJ, UK*

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*Relation: distinguished expert in the field of AGN*

(4) Prof. Keith Horne

*University of St. Andrews*

*School of Physics & Astronomy, University of St. Andrews, St. Andrews, Fife KY16 9SS, UK*

*Email: kdh1@st-andrews.ac.uk*

*Phone: +44-(0)133-446-3322*

*Relation: distinguished expert in the field of AGN*

(5) Prof. Hagai Netzer

*Tel Aviv University*

*School of Physics & Astronomy, Faculty of Exact Sciences, Tel Aviv University, Ramat Aviv, Israel*

*Email: netzer@wise.tau.ac.il*

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*Relation: distinguished expert in the field of AGN*

(6) Prof. Omer Blaes

*University of California, Santa Barbara*

*UCSB Department of Physics, Broida Hall, Santa Barbara, CA 93106, USA*

*Email: blaes@physics.ucsb.edu*

*Phone: +1-805-893-7239*

*Relation: chair of current department and theory expert in accretion physics*

(7) Prof. Gerd Weigelt

*Director emeritus, Max-Planck-Institute for Radio Astronomy, Bonn (Germany)*

*MPIfR, Auf dem Huegel 69, 53121 Bonn, Germany*

*Email: weigelt@mpifr.de*

*Phone: +49-228-525-243*

*Relation: PhD advisor, scientific collaborator, and expert in interferometry*

(8) Prof. Wolfgang Duschl

*University of Kiel (Germany) and Steward Observatory*

*ITAP, University of Kiel, Leibnizstr. 15, 24118 Kiel, Germany*

*Email: wjd@astrophysik.uni-kiel.de*

*Phone: +49-431-880-4125*

*Relation: scientific mentor, collaborator, and expert in AGN accretion disks*

## — List of Publications —

### Refereed journal articles<sup>1</sup>

Where applicable, more information about the individual publications can be accessed by clicking on the titles

#### A. First and second author refereed publications

25. *The subarcsecond mid-infrared view of local active galactic nuclei: III. Polar dust emission*  
Asmus, D., **Hönig, S. F.**, Gandhi, P. 2016, ApJ, in press
24. *The dust sublimation radius as an outer envelope to the bulk of the narrow Fe K $\alpha$  line emission in type 1 AGNs*  
Gandhi, P., **Hönig, S. F.**, Kishimoto, M. 2015, ApJ, 812, 113
23. *A dust-parallax distance of 19 megaparsecs to the supermassive black hole in NGC 4151*  
**Hönig, S. F.**, Watson, D., Kishimoto, M., & Hjorth, J. 2014, Nature, 515, 528
22. *The subarcsecond mid-infrared view of local active galactic nuclei: I. The N- and Q-band imaging atlas*  
Asmus, D., **Hönig, S. F.**, Gandhi, P., et al. 2014, MNRAS, 439, 1648
21. *Dust reverberation mapping in the era of big optical surveys and its cosmological application*  
**Hönig, S. F.** 2014, ApJL, 784, L4
20. *What obscures low X-ray scattering active galactic nuclei?*  
**Hönig, S. F.**, Gandhi, P., Asmus, D., et al. 2014, MNRAS, 438, 647
19. *Evidence for a receding dust sublimation region around a supermassive black hole*  
Kishimoto, M., **Hönig, S. F.**, Antonucci, R., et al. 2013, ApJL, 775, L36
18. *Dust in the polar region as a major contributor to the infrared emission of active galactic nuclei*  
**Hönig, S. F.**, Kishimoto, M., Tristram, K., et al. 2013, ApJ, 771, 87
17. *Parsec-scale dust emission from the polar region in the type 2 nucleus of NGC 424*  
**Hönig, S. F.**, Kishimoto, M., Antonucci, R., et al. 2012, ApJ, 755, 149
16. *Mapping the radial structure of AGN tori*  
Kishimoto, M., **Hönig, S. F.**, Antonucci, R., et al. 2011, A&A, 536, 78
15. *Constraining properties of dusty environments by infrared variability*  
**Hönig, S. F.**, & Kishimoto, M. 2011, A&A, 534, 121
14. *Quantifying the anisotropy in the infrared emission of powerful AGN*  
**Hönig, S. F.**, Leipski, C., Antonucci, R., & Haas, M. 2011, ApJ, 736, 26
13. *The innermost dusty structure in active galactic nuclei as probed by the Keck interferometer*  
Kishimoto, M., **Hönig, S. F.**, Antonucci, R., Barvainis, R., et al. 2011, A&A, 527, 121
12. *The dusty heart of nearby active galaxies. II. From clumpy torus models to physical properties of dust around AGN*  
**Hönig, S. F.**, & Kishimoto, M. 2010, A&A, 523, 27
11. *The dusty heart of nearby active galaxies. I. High-spatial resolution mid-IR spectro-photometry of Seyfert galaxies*  
**Hönig, S. F.**, Kishimoto, M., Gandhi, P., et al. 2010, A&A, 515, 23
10. *Exploring the inner region of type 1 AGNs with the Keck interferometer*  
Kishimoto, M., **Hönig, S. F.**, Antonucci, R., et al. 2009, A&A, 507, L57
9. *Possible evidence for a common radial structure in nearby AGN tori*  
Kishimoto, M., **Hönig, S. F.**, Tristram, K., & Weigelt, G. 2009, A&A, 493, L57

<sup>1</sup>Journal abbreviations: ApJ – Astrophysical Journal; A&A – Astronomy & Astrophysics; MNRAS – Monthly Notices of the Royal Astronomical Society; AJ – Astronomical Journal; A&ARv – Astronomy & Astrophysics Review; AN – Astronomical Notes; arXiv – preprint server (in use for early publication)

*Refereed journal articles – A. First and second author refereed publications (cont.)*

8. *Discovery of a strong Baldwin effect in mid-infrared AGN lines*

**Hönig, S. F.**, Smette, A., Beckert, T., et al. 2008, *A&A*, 485, L21

7. *High-spatial resolution SED of NGC 1068 from near-IR to radio*

**Hönig, S. F.**, Prieto, M. A., & Beckert, T. 2008, *A&A*, 485, 33

6. *The innermost region of AGN tori: implications from the HST/NICMOS type 1 point sources and near-IR reverberation*

Kishimoto, M., **Hönig, S. F.**, Beckert, T., & Weigelt, G. 2007, *A&A*, 476, 713

5. *Active galactic nuclei dust tori at low and high luminosities*

**Hönig, S. F.**, & Beckert, T. 2007, *MNRAS*, 380, 1172

4. *Radiative transfer modeling of three-dimensional clumpy AGN tori and its application to NGC 1068*

**Hönig, S. F.**, Beckert, T., Ohnaka, K., & Weigelt, G. 2006, *A&A*, 452, 459

3. *Identification of a new short-period comet near the sun*

**Hönig, S. F.** 2006, *A&A*, 445, 759

2. *Infrared emission from a clumpy and dusty torus around AGN*

Beckert, T., **Hönig, S. F.**, Duschl, W. J., & Weigelt, G. 2005, *AN*, 326, 536

1. *Preliminary Orbital Elements of Four Interferometric Binary Stars*

**Hönig, S. F.**, & Tscharnuter, W. 2005, *AJ*, 129, 1663

**B. Other refereed publications**

22. *The optical-UV emissivity of quasars: dependence on black hole mass and radio loudness*

Shankar, F., et al. (including **Hönig, S. F.**) 2016, *ApJL*, 818, L1

21. *The subarcsecond mid-infrared view of local active galactic nuclei: II. The mid-infrared-X-ray correlation*

Asmus, D., Gandhi, P., **Hönig, S. F.**, Smette, A., & Duschl, W. 2015, *MNRAS*, 454, 766

20. *Near-infrared polarimetric adaptive optics observations of NGC 1068: a torus created by a hydromagnetic outflow wind*

Lopez-Rodriguez, E., et al. (including **Hönig, S. F.**) 2015, *MNRAS*, 452, 1902

19. *The Lick AGN Monitoring Project 2011: Spectroscopic campaign and emission-line light curves*

Barth, A., for the *LAMP* collaboration (including **Hönig, S. F.**) 2015, *ApJS*, 217, 26

18. *Resolving the AGN and host emission in the mid-infrared using a model-independent spectral decomposition*

Hernan-Caballero, A., et al. (including **Hönig, S. F.**) 2015, *ApJ*, 803, 109

17. *The difference of torus geometry between hidden and non-hidden broad line active galactic nuclei*

Ichikawa, K., et al. (including **Hönig, S. F.**) 2015, *ApJ*, 803, 57

16. *Luminosity-dependent innermost dusty structure in AGN as revealed by infrared interferometry*

Kishimoto, M., Millour, F., Weigelt, G., **Hönig, S. F.**, et al. 2015, *A&A*, submitted

15. *Differential interferometry of QSO broad line regions I: improving the reverberation mapping model fits and black hole mass estimates*

Rakshit, S., Petrov, R., Meilland, A., & **Hönig, S. F.** 2014, *MNRAS*, in press

14. *Nuclear 11.3  $\mu\text{m}$  PAH emission in local active galactic nuclei*

Alonso-Herrero, A., et al. (including **Hönig, S. F.**) 2014, *MNRAS*, 443, 2766

13. *The dusty torus in the Circinus galaxy: a dense disk and the torus funnel*

Tristram, K., Burtscher, L., Meisenheimer, Jaffe, W., **Hönig, S. F.**, et al. 2014, *A&A*, 563, 82

12. *Nuclear star formation activity and black hole accretion in nearby Seyfert galaxies*

Esquej, P., Alonso-Herrero, A., González-Martín, O., **Hönig, S. F.**, et al. 2014, *ApJ*, 780, 86

*Refereed journal articles – B. Other refereed publications (cont.)*

11. *A diversity of dusty AGN tori — Data release for the MIDI AGN Large Program and first results for 23 galaxies*  
Burtscher, L., Meisenheimer, K., Tristram, K., Jaffe, W., **Hönig, S. F.**, et al. 2013, A&A, 558, 149
10. *The Lick AGN Monitoring Project 2011: Fe II reverberation from the outer broad-line region*  
Barth, A. J., for the LAMP collaboration (including **Hönig, S. F.**) 2013, ApJ, 769, 128
9. *Resolving the gap and AU-scale asymmetries in the pre-transitional disk of V1247 Orionis*  
Kraus, S., et al. (including **Hönig, S. F.**) 2013, ApJ, 768, 80
8. *The Lick AGN Monitoring Project 2011: Dynamical modeling of the broad line region in Mrk 50*  
Pancoast, A., for the LAMP collaboration (including **Hönig, S. F.**) 2012, ApJ, 754, 49
7. *Imaging the heart of astrophysical objects with optical long-baseline interferometry*  
Berger, J.-P., et al. (including **Hönig, S. F.**) 2012, A&ARv, 20, 53
6. *VLT/AMBER observations of the Seyfert nucleus of NGC 3783*  
Weigelt, G., Kishimoto, M., Hofmann, K.-H., **Hönig, S. F.**, et al. 2012, A&A, 541, L9
5. *The Lick AGN Monitoring Project 2011: Reverberation Mapping of Markarian 50*  
Barth, A. J., for the LAMP collaboration (including **Hönig, S. F.**) 2011, ApJ, 743, L4
4. *Mid-infrared properties of nearby low-luminosity AGN at high-angular resolution*  
Asmus, D., Gandhi, P., Smette, A., **Hönig, S. F.**, & Duschl, W. 2011, A&A, 536, 35
3. *Resolving the mid-infrared cores of local Seyfert*  
Gandhi, P., Horst, H., Smette, A., **Hönig, S. F.**, et al. 2009, A&A, 502, 457
2. *Probing the dusty environment of the Seyfert 1 nucleus in NGC 3783 with MIDI/VLTI interferometry*  
Beckert, T., Driebe, T., **Hönig, S. F.**, & Weigelt, G. 2008, A&A, 486, L17
1. *Obscuration in Extremely Luminous Quasars*  
Polletta, M., Weedman, D. W., **Hönig, S. F.**, et al. 2008, ApJ, 675, 960



## Proceedings articles (refereed and non-refereed), theses, and invited reviews<sup>2</sup>

— not included are contributions to **41 IAU Circulars (IAUCs)**, **73 Minor Planet Electronic Circulars (MPECs)**, and **87 Minor Planet Circulars (MPCs)**

33. *The census and properties of bona fide Compton-thick active galactic nuclei from hard X-ray and infrared observations*

Gandhi, P., et al. (including **Hönig, S. F.**) 2014, proceedings of the conference “Suzaku-MAXI 2014: Expanding the Frontiers of the X-ray Universe”, p.319

32. *The sharpest view 19-22 February, 2014 of the local AGN population at mid-infrared wavelengths*  
Asmus, D., **Hönig, S. F.**, Gandhi, P., Smette, A., & Duschl, W. J. 2014, IAUS, 304, 225

31. *VizieR Online Data Catalog: Subarcsecond mid-infrared atlas of local AGN (Asmus+, 2014)*  
Asmus, D., **Hönig, S. F.**, Gandhi, P., Smette, A., & Duschl, W. J. 2014, VizieR Online Data Catalog

30. *Tori, clumps, disks, and winds – a tale of our evolving picture of dust around AGN*  
**Hönig, S. F.** 2014, Cospar Scientific Assembly, E1.19-16-14

29. *Spitzer and Kepler Space Telescope Detection of Reverberation in the Seyfert 1 Galaxy Zw 229-015*  
Gorjian, V., et al. 2014, AAS, 22325108

28. *Resolving the gap and AU-scale asymmetries in pre-transitional disks with multi-wavelength interferometry*  
Kraus, S., et al. 2013, Proceedings of “Protostars and Planets VI”, 2B051

27. *LAMP 2008 and 2011: Dynamical Modeling of the Broad Line Region*  
Pancoast, A., et al. 2013, AAS, 22130908

26. *The Lick AGN Monitoring Project 2011: New Velocity-Resolved Reverberation-Mapping Results*  
Barth, A., et al. 2013, AAS, 22130907

25. *The largest mid-infrared atlas of active galactic nuclei at sub-arcsecond spatial scales*  
Asmus, D., Gandhi, P., **Hönig, S. F.**, & Smette, A. 2012, proceedings of the “Torus Workshop 2012”

24. *On donuts and crumbs: A brief history of torus models*  
**Hönig, S. F.** 2012, **Invited review**; proceedings of the “Torus Workshop 2012”

*Proceedings articles (refereed and non-refereed), theses, and invited reviews (cont.)*

23. *Coeval black hole growth and star formation activity on 100 pc scales in nearby Seyfert galaxies?*  
Esquej, P., Alonso-Herrero, A., González-Martín, O., **Hönig, S. F.**, et al. 2012, proceedings of the “Torus Workshop 2012”

22. *The high angular resolution view of local X-ray selected AGN in the mid-infrared*  
Gandhi, P. et al. 2012, Proceedings of the conference “Half a Century of X-ray Astronomy”, id.141

21. *The complexity of parsec-scaled dusty tori in AGN*  
Tristram, K., et al. 2012, JPhCS, 372, 2035

20. *Nuclear mid-infrared properties of nearby low-luminosity AGN*  
Asmus, D., **Hönig, S. F.**, Gandhi, P., Smette, A., & Duschl, W. J. 2011, JPhCS, 372, 2034

19. *Probing the innermost dusty structure in AGN with mid-IR and near-IR interferometers*  
Kishimoto, M., **Hönig, S. F.**, Antonucci, R., et al. 2012, JPhCS, 372, 2033

18. *The Lick AGN Monitoring Project 2011: Dynamical Modeling of the Broad Line Region in Mrk 50*  
Pancoast, A., et al. 2012, AAS, 21920905

17. *The Lick AGN Monitoring Project 2011: Reverberation Mapping of Markarian 50*  
Barth, A. J., et al. 2012, AAS, 21920904

<sup>2</sup>Journal abbreviations: SPIE – International Society for Optics and Photonics proceedings; AIPC – AIP conference proceedings; IAUS – International Astronomical Union Symposium proceedings; ASPC – ASP Conference Series; AAS – American Astronomical Society proceedings; JPhCS – Journal of Physics Conference Series; arXiv – preprint server (in use for early publication)

16. *Resolved mid-IR emission as an isotropic probe in AGN at high & low powers*  
Gandhi, P., et al. 2011, Presentation at the conference "The X-ray Universe 2011"; Article Id.209
15. *PTF weekly SN discovery report, April 8, 2011*  
Gal-Yam, A., et al. 2011, The Astronomer's Telegram 3270
14. *Infrared Interferometry of Active Galactic Nuclei*  
**Hönig, S.**, et al. 2010, Yearbook of the Max-Planck Society
13. *Resolved mid-infrared imaging of AGN: an isotropic measure of intrinsic power*  
Gandhi, P., et al. 2010, AIPC, 1248, 431
12. *Resolved Mid-Infrared Imaging of AGN: An Isotropic Measure of Intrinsic Power*  
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11. *Matisse*  
Lopez, B., et al. 2009, proceedings of the conference "Science with the VLT in the ELT Era"
10. *Constraining the Dust Distribution in AGN Dust Tori*  
**Hönig, S. F.** 2009, e-proceedings of the conference "Physics of Galactic Nuclei"
9. *Science case for 1 mas spectro-imaging in the near-infrared*  
Garcia, P. J. V., et al. 2008, SPIE, 7013, 146
8. *Phase closure image reconstruction for future VLTI instrumentation*  
Filho, M. E., et al. 2008, SPIE, 7013, 123
7. *Phase referencing in optical interferometry*  
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6. *Radiative Transfer Simulations of AGN Dust Tori*  
Beckert, T., & **Hönig, S. F.** 2008, EAS Publ. Series, 28, 121
5. *Clumpy Dust Tori in Active Galactic Nuclei*  
**Hönig, S. F.** 2008, PhD thesis, MPIfR/University of Bonn
4. *3D Radiative Transfer Modeling of Clumpy Dust Tori Around AGN*  
**Hönig, S. F.**, et al. 2007, ASPC, 373, 487

*Proceedings articles (refereed and non-refereed), theses, and invited reviews (cont.)*

3. *Obscuration in Extremely Luminous Quasars*

Polletta, M., et al. 2007, Proceedings of the conference "X-ray Surveys, Evolution of Accretion, Star-Formation and the Large Scale Structure"

2. *The Top 15 Luminous Obscured Quasars: SED, Luminosity and Absorption Properties*

Polletta, M., et al. 2006, AAS, 38, 1060

1. *Stabilitätsanalyse im Mehrfachsternsystem  $\theta^1$  Ori B*

**Hönig, S. F.** 2004, Diploma thesis, University of Heidelberg

## — Observing Record —

### List of Observing Programs (since 2010)

Year	Telescope (Instrument)	Alloc. time	Program Number (PI/Col): Title
2014	Spitzer DDT (IRAC)	2.8 hrs	10163 (Col): <i>A Coordinated Spitzer and Hubble Space Telescope Study of NGC 5548</i>
	VLT (MIDI)	2.5 nights	093.B-0287 (PI): <i>“The answer my friend...” — testing the new dusty-wind picture for the AGN mid-IR emission</i>
	VLT (MIDI)	4.5 hrs	093.D-0825 (Col): <i>Resolving the freshly-ejected massive dust shell in WISE J1810-3305</i>
	VLT (MIDI)	1.0 nights	093.B-0647 (Col): <i>Resolving the first LINER with MIDI (resub.)</i>
	VLT (AMBER)	1.0 nights	093.B-0475 (Col): <i>The innermost dusty structure in AGN: addressing dust destruction and elongation of the sublimation region</i>
	CHARA interferometer	2.0 nights	2014A-0072 (Col): <i>Resolving the innermost dusty accretion in the brightest Type 1 AGN with the CHARA array</i>
	GranTeCan (CanariCam)	5.5 hrs	488-28471 (Col): <i>Probing dust grain production/destruction in NGC4151 at mid-infrared wavelengths</i>
2013	Spitzer (IRAC)	12.0 hrs	10125 (Col): <i>Continuing Ground- and Space-Based Variability Monitoring of Zw 229-015</i>
	Lick observatory (3 m telescope + KAST)	3 nights	2013B-S013 (PI): <i>Ghosts in the Mirror — Revealing past AGN activity by imaging polarimetry of extended emission-line regions</i>
	Spitzer (IRAC)	19.0 hrs	90144 (Col): <i>Continuing Ground- and Space-Based Variability Monitoring of Zw 229-015</i>
	VLT (MIDI)	2.25 hrs	092.B-0738 (Col): <i>AGN with two faces – Resolving the silicate emission in the obscured AGN NGC 2110 with MIDI</i>
	VLT (MIDI)	2.875 hrs	092.B-0718 (Col): <i>Revealing AGN torus structure at high accretion rates with IR interferometry</i>
	VLT (PIONIER)	1.5 hrs	092.B-0415 (Col): <i>Probing the hot inner rim of dusty tori in active galactic nuclei with H band interferometry</i>
	VLT (HAWKI)	1.5 hrs	091.B-0559 (Col): <i>Resolving the compact active galaxy pair of NGC 3393 in the infrared during final stages of a minor merger</i>
	VLT (MIDI)	2.8 nights	091.B-0895 (Col): <i>GTO: Mapping the warm, extended dust emission in the ionisation cone of the Circinus galaxy</i>
	VLT (MIDI)	1.2 nights	091.B-0743 (Col): <i>GTO: Determining the dust structure in the central parsecs of Centaurus A</i>
	VLT (MIDI)	1.2 nights	091.B-0647 (Col): <i>Resolving the first LINER with MIDI</i>
	VLT (HAWKI) & VLT (MIDI)	1.2 hrs + 1.2 nights	091.B-0025 (PI): <i>Interferometric and photometric monitoring of the torus in NGC 3783</i>
	VLT (ISAAC)	24.0 hrs	290.B-5113 (Col): <i>Creating the largest high-resolution mid-infrared atlas of active galactic nuclei</i>
	VLT (MIDI)	2.0 nights	090.B-0090 (Col): <i>GTO: Mapping the warm, extended dust emission in the ionisation cone of the Circinus galaxy</i>
	VLT (VISIR, HAWKI) & VLT (MIDI)	4.6 hrs + 1.0 nights	090.B-0024 (PI): <i>Interferometric and photometric monitoring of the torus in NGC 3783</i>
	VLT (ISAAC, VISIR)	5.0 hrs	090.B-0016 (Col): <i>Monitoring the infrared outburst of the active galactic nucleus in the Circinus galaxy – Continuation</i>
2012	Lick observatory (3 m telescope + KAST)	2 nights	2012B-S000 (PI): <i>Imaging polarimetry of Hanny’s Voorwerp</i>
	VLT (PIONIER)	1.0 nights	089.B-0918 (Col): <i>Probing the hot inner rim of dusty tori in AGN with H band interferometry with PIONIER</i>

Year	Telescope (Instrument)	Alloc. time	Program Number (PI/Col): <i>Title</i>
	VLT (AMBER)	2.0 nights	089.B-0190 (Col): <i>Probing the inner dusty accretion in AGN tori with AMBER</i>
	VLT (ISAAC, VISIR)	6.5 hrs	089.B-0070 (Col): <i>Monitoring the infrared outburst of the active galactic nucleus in the Circinus galaxy – Continuation</i>
	VLT (VISIR, ISAAC) & VLT (MIDI)	6.8 hrs + 2.4 nights	089.B-0036 (PI): <i>Interferometric and photometric monitoring of the torus in NGC 3783</i>
	CHARA interferometer	1.2 nights	2012A-0187 (Col): <i>Resolving the innermost dusty accretion in the brightest Type 1 AGN with the CHARA array</i>
	Lick observatory (3 m telescope + KAST)	3 nights	2012A-S001 (Col): <i>Giant Bipolar Reflection Nebulae in Uligs and Lirgs</i>
	Keck interferometer	1 night	2012A-U033 (Col): <i>Type 1 AGN dust tori in the K and L band as seen by the Keck interferometer</i>
	VLT (AMBER)	1.0 nights	088.B-0408 (Col): <i>Probing the inner dusty accretion in AGN tori with AMBER: radio-loud versus radio-quiet</i>
	VLT (VISIR)	0.5 hrs	088.B-0402 (Col): <i>MIR Spectroastrometry of nearby AGN: Weighting black holes — Completion</i>
	VLT (AMBER)	0.5 nights	088.B-0193 (Col): <i>GTO: VLT/AMBER observations of AGNs</i>
	VLT (ISAAC, VISIR)	5.0 hrs	088.B-0159 (Col): <i>Monitoring the infrared outburst of the active galactic nucleus in the Circinus galaxy – Continuation</i>
	VLT (VISIR, ISAAC) & VLT (MIDI)	8.0 hrs + 1.0 nights	088.B-0044 (PI): <i>Interferometric and photometric monitoring of the torus in NGC 3783</i>
	VLT (VISIR, ISAAC)	10.5 hrs	088.B-0029 (PI): <i>Anatomy of the torus — dissecting the dust distributions around AGN as a long-term IR reverberation-mapping project. III</i>
2011	Keck interferometer	1 night	2011B-U028 (Col): <i>Probing the inner torus and the central engine in Type 1 AGNs with the Keck interferometer</i>
	VLT (MIDI)	1.4 nights	087.B-0971 (Col): <i>What is causing the outburst in the active galactic nucleus of the Circinus galaxy in the infrared?</i>
	VLT (ISAAC, VISIR) & VLT (MIDI)	6.0 hrs 1.0 hrs	087.B-0746 (Col): <i>Monitoring the infrared outburst of the active galactic nucleus in the Circinus galaxy</i>
	VLT (AMBER)	1.0 nights	087.B-0507 (Col): <i>GTO: VLT/AMBER observations of AGNs</i>
	VLT (AMBER)	1.4 nights	087.B-0411 (Col): <i>Probing the inner dusty accretion in AGN tori with AMBER</i>
	VLT (VISIR) & VLT (MIDI)	1.0 hrs + 1.2 nights	087.B-0401 (PI): <i>Interferometric monitoring of the torus in NGC 3783</i>
	VLT (MIDI)	2.5 nights	087.B-0266 (Col): <i>Diet for the monsters: completing the programme</i>
	VLT (VISIR, ISAAC)	18.1 hrs	087.B-0018 (PI): <i>Anatomy of the torus — dissecting the dust distributions around AGN as a long-term IR reverberation-mapping project. II</i>
	Lick observatory (3 m telescope + KAST)	69 nights	2011A (Col): <i>The Lick AGN Monitoring Project (LAMP) 2011</i>
	Keck interferometer	1 night	2011A-U064 (Col): <i>Probing the inner torus and the central engine in Type 1 AGNs with the Keck interferometer</i>
	VLT (VISIR)	11.0 hrs	086.B-0919 (Col): <i>High spatial resolution VISIR spectra as references for the interferometric study of AGN in the mid-infrared</i>
	VLT (VISIR)	3.5 hrs	086.B-0479 (Col): <i>MIR Spectroastrometry of nearby AGN – Weighing black holes</i>
	VLT (VISIR, ISAAC)	15.5 hrs	086.B-0349 (Col): <i>What keeps the old monster's heart warm? II.</i>

Year	Telescope (Instrument)	Alloc. time	Program Number (PI/Col): <i>Title</i>
	VLT (VISIR) & VLT (MIDI)	5.5 hrs 2.0 nights	086.B-0257 (Col): <i>Size and shape of the dust distribution in the core of the prototypical radio-loud 3C273</i>
	VLT (VISIR, ISAAC)	14.5 hrs	086.B-0242 (PI): <i>Anatomy of the torus — dissecting the dust distributions around AGN as a long-term IR reverberation-mapping project. I</i>
	VLT (VISIR, ISAAC)	5.0 hrs	086.B-0026 (Col): <i>Is the active nucleus of the Circinus galaxy variable in the infrared?. II</i>
	VLT (MIDI)	2.1 nights	086.B-0019 (PI): <i>Narrow-line region or torus? Resolving the mid-IR emission in NGC 424 using VLT/MIDI</i>
2010	Herschel (PACS)	26 hrs	OT1_pgandhi_1 (Col): <i>What inflates the torus? Probing the physical properties of geometrically-thick buried AGN with high J CO lines</i>
	Keck interferometer	0.5 nights	2010B-U154 (Col): <i>Probing the inner torus and the central engine in Type 1 AGNs with the Keck interferometer</i>
	VLT (VISIR, ISAAC)	6.0 hrs	385.B-0896 (Col): <i>Is the active nucleus of the Circinus galaxy variable in the infrared?. I</i>
	VLT (FOR2)	4.0 hrs	385.B-0891 (Col): <i>Can low-luminosity radio galaxies host a broad-line region?</i>
	VLT (VISIR, ISAAC)	25.5 hrs	085.B-0639 (Col): <i>What keeps the old monster's heart warm? I.</i>
	VLT (VISIR)	19.0 hrs	085.B-0251 (PI): <i>Where have all the PAH grains gone? — VISIR detection of the radial structure of PAH emission in the AGN vicinity and its implications on AGN feeding and the AGN/starburst connection</i>
	VLT (VISIR)	5.0 hrs	385.B-0051 (PI): <i>Direct evidence for mid-IR variability of AGN: Follow-up VISIR observations of NGC 4593. II</i>
	Keck interferometer & CHARA interferometer	1 night 0.6 nights	2010A-U098 (Col): <i>Probing the inner torus and the central engine in Type 1 AGNs with the Keck interferometer</i>
	Gemini (Michelle)	2.5 nights	GN-2010A-C-7 (Col): <i>Mid-infrared properties of low-luminosity AGN</i>
	VLT (ISAAC)	3.0 hrs	384.B-0956 (Col): <i>The torus-accretion-disk sequence on the near-IR two-color diagram for AGNs</i>
	VLT (VISIR)	1.0 hrs + 1.0 nights	084.B-0887 (Col): <i>The nuclear gas kinematics and black hole mass of NGC 7213</i>
	VLT (MIDI)	13.1 nights	184.B-0832 (Col): <i>Diet for the monsters: The diversity of dusty molecular tori in AGNs (Large Program)</i>
	VLT (VISIR)	27.0 hrs	084.B-0606 (Col): <i>A complete look at local active galactic nuclei in the mid-IR</i>
	VLT (SINFONI, NACO)	23.5 hrs	084.B-0568 (Col): <i>Exploring the interior of LINERs</i>
	VLT (VISIR)	6.0 hrs	384.B-0500 (PI): <i>Exploring mid-IR [NeV] emission in Seyfert galaxies at highest spatial resolution: The Baldwin effect in AGN and physical conditions in the inner narrow-line region</i>
	VLT (VISIR) & VLT (MIDI)	6.0 hrs 1.5 nights	084.B-0366 (Col): <i>Exploring the radial structure of the dust torus in QSOs with MIDI</i>
	VLT (VISIR)	5.0 hrs	384.B-0143 (PI): <i>Direct evidence for mid-IR variability of AGN: Follow-up VISIR observations of NGC 4593. I</i>