

CURRICULUM VITAE

KATHARINA IMMER

PRESENT POSITION

2010 – present **PhD student under supervision of Prof. Dr. Karl M. Menten**

Max-Planck-Institut für Radioastronomie, Bonn, Germany
Thesis Title: *Multi-Wavelength Observations of High-Mass Star Forming Regions*

Project: Studies of Chemistry and Kinematics along Evolutionary Sequence in High-Mass Star Forming Regions

EDUCATION

2009 **Diplom in Physics**

Rheinische Friedrich-Wilhelms Universität Bonn, Germany
Diplom (equivalent to M. Sc.)
Grade: Very good (A)

2008 – 2009 **Diplom thesis under supervision of Prof. Dr. Karl M. Menten**

Max-Planck-Institut für Radioastronomie, Bonn, Germany
Thesis title: *Multi-Wavelength Studies of Massive Star Formation in the Galactic Centre Region*

2004 – 2009 **Studies at the University of Bonn, Germany**

Rheinische Friedrich-Wilhelms Universität Bonn, Germany
Physics (major); Astronomy (minor) – Specialization: Observational Astronomy

1997 – 2004 **High School**

Christian-Wirth-Gymnasium, Usingen, Germany

FELLOWSHIPS

2012 – present Member of the International Max Planck Research School for Astronomy and Astrophysics, Bonn, Germany

2010 – 2011 Predoctoral fellowship at the Harvard-Smithsonian Center for Astrophysics, Cambridge, USA, under supervision of Dr. Mark Reid

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REFEREED

- 2013 Immer, K.**, Reid, M. J., Menten, K. M., Brunthaler, A., Dame, T. M. "Trigonometric Parallaxes of Massive Star Forming Regions: G012.88+0.48 and W33", A&A, 553, A117
- 2012 Immer, K.**, Menten, K. M., Schuller, F., Lis, D. C. "A multi-wavelength view of the Galactic center dust ridge reveals little star formation", A&A, 548, A120
Immer, K., Schuller, F., Omont, A., Menten, K. M. "Recent star formation in the inner Galactic Bulge seen by ISOGAL II – The Central Molecular Zone", A&A, 537, A121
- 2011 Immer, K.**, Brunthaler, A., Reid, M. J., Bartkiewicz, A., Choi, Y. K., Menten, K. M., Moscadelli, L., Sanna, A., Wu, Y. W., Xu, Y., Zhang, B., Zheng, X. W. "The VLBA Calibrator Search for the BeSSeL Survey", ApJS 194, 25
Brunthaler, A., Reid, M. J., Menten, K. M., Zheng, X.-W., Bartkiewicz, A., Choi, Y. K., Dame, T., Hachisuka, K., **Immer, K.**, Moellenbrock, G., Moscadelli, L., Rygl, K. L. J., Sanna, A., Sato, M., Wu, Y., Xu, Y., Zhang, B. "The Bar and Spiral Structure Legacy (BeSSeL) survey: Mapping the Milky Way with VLBI astrometry", AN 332, 461

SUBMITTED

- 2013 Immer, K.**, Cyganowski, C., Reid, M. J., Menten, K. M. "The cometary H II regions of DR21: Bow shocks or champagne flows or both?" , A&A, subm.

CONFERENCE PROCEEDINGS & CONTRIBUTIONS

- 2013 Protostars and Planets VI**, Heidelberg, Germany, Contribution: Poster (Immer, K., Galván-Madrid, R., Menten, K. M. "Chemical diversity in W33")
"High-Mass Star Formation, From Large to Small Scales in the Era of Herschel & ALMA", Leiden, Netherlands, Contribution: Talk ("Chemical evolution in W33")
- 2012 Young European Radio Astronomy Conference**, Pushchino, Russia, Contribution: Talk ("The massive star forming complex W33 – Closer than expected? Trigonometric parallax observations of water masers")
Science with the Atacama Pathfinder Experiment, Ringberg, Germany, Contribution: Poster: (Immer, K., Menten, K. M., Schuller, F. "The Dust Ridge – A large mass reservoir with little star formation close to the Galactic Center")

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CONFERENCE PROCEEDINGS & CONTRIBUTIONS

- 2012 IAU Symposium 287: "Cosmic masers - from OH to H0"**, Stellenbosch, South Africa, Contribution: Poster (Immer, K., Reid, M. J., Menten, K. M. "Relative Parallaxes in the Massive Star Forming Region W33"); Proceedings: Immer, K., Reid, M. J., & Menten, K. M., "Relative parallaxes in the massive star forming region W33", IAU Symposium 287, 413
- 2011 MW2011: "The Milky Way In The Herschel Era: Towards A Galaxy-Scale View Of The Star Formation Life-Cycle"**, Rome, Italy, Contribution: Poster (Immer, K., Schuller, F., Omont, A., Menten, K. M. "An average star formation rate for the Central Molecular Zone")
- IAU Symposium 280: "The Molecular Universe"**, Toledo, Spain, Contribution: Poster (Immer, K., Schuller, F., Menten, K. M. "Spitzer Spectroscopy of Young Stellar Object Candidates in the Central Molecular Zone")

WORK EXPERIENCE

- 2008 – 2009** Student research assistant at the MPIfR, Bonn, Germany
- 2007 – 2008** Teaching assistant at the University of Bonn, Germany
- Laboratory course for biologists, medical students, and pharmacists
 - Lecture Physics II (Electromagnetism)

VOLUNTEER WORK – UNIVERSITY

- 2007 – 2008** President of the physics student representative body at the University of Bonn, Germany
- 2004 – 2009** Member of the physics student representative body at the University of Bonn, Germany
- Advisor for fellow students
 - Editor-in-chief of the journal Continuum
 - Organizer of a series of lectures about the scientific work in the physics/astronomy department
 - Work in university committees
 - Committee of the physics/astronomy department
 - Committee for the distribution of the tuition fees
 - Committee for the improvement of the new degree program Bachelor of Science in Physics

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PROFESSIONAL SERVICE

2011 Journal Referee (PASP)

PROFESSIONAL MEMBERSHIPS

2006 – present Member of the Max Planck Society (MPG)

2004 – present Member of the German Physical Society (DPG)

SKILLS

OPERATING SYSTEMS Windows, Linux, Macintosh

OFFICE APPLICATIONS Microsoft PowerPoint, Excel, Word, LaTeX, OpenOffice Package

ASTRONOMICAL SOFTWARE AIPS, BoA, SPICE, MIRIAD, CASA, GILDAS, gnuplot, Karma kvis (good knowledge)
Fortran, Python, IDL (basic knowledge)

LANGUAGES German (native), English (fluent), French (basic), Italian (basic)

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