

# Curriculum Vitae

## David S. Meier

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## Education:

### University of California, Los Angeles (UCLA):

**Ph.D.;** Astronomy: 2002

Committee: J. L. Turner [Advisor], M. R. Morris, M. A. Jura, J. T. Wasson

Thesis: *Physical Properties of Giant Molecular Clouds in Nearby Starburst Galaxies*

**M.S.;** Astronomy: 1996

Advisor: J. L. Turner

Thesis: *Aperture Synthesis Study of CO in the Nucleus of IC 342*

### California State University, Los Angeles (CSULA):

**B.A. (with Honors);** Physics: 1994

Advisor: M. B. Mijic

## Advanced Schools:

CUREA summer school: Mt. Wilson Institute: 1990

NRAO Synthesis Imaging summer school: NRAO: 1998, 2006

BIMA millimeter Interferometry summer school: Hat Creek: 2001

## Professional Experience:

### New Mexico Tech (NMT):

Associate Professor (Physics/Astrophysics): 2013 - —

Assistant Professor (Physics/Astrophysics): 2008 - 2013

### National Radio Astronomy Observatory (NRAO):

Adjunct Associate Astronomer: 2012 - 2014, 2016 - —

Adjunct Assistant Astronomer: 2008 - 2010

**NRAO:**

Jansky Post-doctoral Fellowship: 2005 - 2008

**University of Illinois, Urbana-Champaign (UIUC):**

Astronomy Lecturer: 2005

BIMA/CARMA Post-doctoral Research Associate: 2002 - 2005

**UCLA:**

Research Assistant/Associate: 1996 - 2001

**University of Nevada, Las Vegas (UNLV):**

National Science Foundation (NSF) REU Research Assistant: 1993

**CSULA:**

Physics Laboratory Assistant: 1993 - 1994

## Teaching Experience:

**NMT:**

Assistant/Associate Professor: 2008 - —

*General Physics I* (PHYS 121)

*Comprehensive Physics I/II* (PHYS 221/222)

*Astrophysics Laboratory I/II* (PHYS 327L/328L)

*Radiation & Optics* (PHYS 334)

*Practicum in Problem Solving* (PHYS 380)

*Atomic & Nuclear Physics* (PHYS 443)

*Extragalactic Astrophysics* (PHYS 563)

Lecturer - 13<sup>th</sup> NRAO Synthesis Imaging Workshop: 2012

*'Analyzing Spectral Cubes'*

**UIUC:**

Lecturer: 2005

*Perspectives in Astronomy* (ASTR 100)

**UCLA:**

Teaching Assistant/Associate: 1996 - 2001

*Intro. to the Physical Universe* (AST 2A, 2B)

*Nature of the Universe* (AST 3)

*Astronomy & the Media* (AST 7)

Miscellaneous Lectures (fill in basis): 1997 - 2000

*Radiative Transfer* (AST 117)

*Stellar Systems & Cosmology* (AST 140)

*Gaseous Nebulae* (AST 278)

## Miscellaneous:

### Department/Community Service:

#### NMT:

University Budget and Research Committee: 2016 - —

Scientific Organizing Committee:

*Behind the Curtain of Dust II – The Molecular View of Activity in*

*Luminous Infrared Galaxies*; Sexten, Italy: 2016 - 2017

*Publications of the Astronomical Society of Japan* Referee: 2016

*Monthly Notices of the Royal Astronomical Society* Referee: 2016 - 2017

Scientific Organizing Committee:

*15th Synthesis Imaging Workshop*; Socorro, NM: 2015 - 2016

Scientific Organizing Committee:

*Molecular Gas in Galactic Environments*; Charlottesville, VA: 2015 - 2016

NRAO ngVLA Galaxy Ecosystems Science Working Group: 2015 - —

NRAO Science Review Panel Referee: 2011-2012; 2015 - 2016

Physics Department Undergraduate Curriculum Committee: 2015 - 2016

Physics Department Preliminary Exam Committee: 2013 - —; Chair 2014 - —

Physics Department Graduate Admissions Committee: 2009 - —

Physics Department General Physics Curriculum Committee: 2008 - —

*Astrophysical Journal* Referee: 2010 - —

*Astronomy & Astrophysics Journal* Referee: 2010 - 2016

NASA Panel Reviewer [*multiple times*]

Scientific Organizing Committee:

*14th Synthesis Imaging Workshop*; Socorro, NM: 2013 - 2014

Scientific Organizing Committee:

*Behind the Curtain of Dust – The Molecular View of Activity in*

*(U)LIRGs*; Sexten, Italy: 2013 - 2104

Scientific Organizing Committee:

*IAU 303: The Galactic Center: Feeding and Feedback in a Normal*

*Galactic Nucleus*; Santa Fe, NM: 2012 - 2013

NMT Physics Department Colloquium Series Organizer: 2011-2013

NSF Panel Reviewer [*multiple times*]

*Astrophysical Journal Letters* Referee: 2012

Local Organizing Committee:

2012 *American Physics Society Four Corners* regional meeting: 2011 - 2012

University Assessment and Retention Committee: 2011 - 2013  
 University Financial Aid and Scholarships Committee: 2009 - 2011;  
 Chair — 2010-2011  
 Physics Department Graduate Curriculum Committee: 2011- 2013  
 Physics Department Faculty Merit Review Committee: 2010 - 2014  
 Physics Department Computing Committee: 2008 - 2010

**NRAO:**

NRAO Wednesday Science Lunch Organizer: 2007-2008  
 Local Organizing Committee: NRAO Summer REU program: 2006-2007  
 10th Synthesis Imaging Summer School - Tutor: 2006  
 Local Organizing Committee: NRAO Postdoctoral Fellows Symposium: 2006  
 NSF Reviewer

**UIUC:**

ALMA - Design Reference Science Plan contributor (§1.7.1-1.7.3): 2003  
 LAI group Preprint Coordinator: 2003-2005  
 BIMA Array Statistician: 2002-2004  
 BIMA Array Operator: 2002-2004  
 BIMA Array Proposal Referee: 2002-2003

**UCLA:**

*Astronomical Journal* Referee: 2001  
 Math & Physical Science Council Graduate Student Representative: 1999-2001  
 Math & Physical Science Council Webmaster: 2000-2001  
 OVRO Array Operator: 1997-2001

**Professional Honors/Awards:****NMT:**

NSF Grant AST-1109803 [co-PI] ~\$415,000: 2011 - 2015  
 NSF Grant AST-1009620 [PI] ~\$201,000: 2010 - 2014

**UIUC/NRAO:**

NSF Grant AST-0506669 [PI] ~\$12,000: 2005 - 2007  
 NASA Spitzer Grant [co-I]: 2005 - 2008

**UCLA:**

Phys. & Astro. Alumni Alliance Outstanding Graduate Student: 2001 - 2002  
 Sigma Xi Grant: 1999 - 2000

**CSULA:**

Phi Kappa Phi Honor Society: 1992 - 1995  
CSULA Alumni Outstanding Physics graduate: 1994  
CSULA Larry Chu Scholarship, Physics: 1993 - 1994

**Technical Experience:**

**Computing:**

**Operating Systems:**

Max OS X, Linux, UNIX, Windows

**Languages:**

FORTRAN, IDL, PostScript, LaTeX

**Data Reduction Software:**

AIPS, Miriad, CASA, CUBISM, Class/Gildas, IRAF, GBTIDL

**Telescope Usage:**

**Observing and Analysis:**

ALMA, JVLA, OVRO, BIMA, CARMA, PdBI, SMA, GBT, CSO, Spitzer  
ATCA, Keck II

**Analysis:**

HST, MOPRA, FCRAO

**Professional Organizations:**

American Astronomical Society: 1998 - —  
American Chemical Society: 2006 - —  
Astronomical Society of the Pacific: 1997 - 2014  
American Association of Physics Teachers: 1993 - 1994  
Society of Physics Students: 1993 - 1994

**Research Interests:**

Physical / chemical properties of molecular gas in galactic nuclei  
Young starbursts/super star cluster formation  
Molecular gas in dwarf galaxies  
Interstellar prebiotic chemistry

**Students Advised:**

**Graduate (Main Advisor):**

**Doctorate:**

Tierra Candelaria - NMT: 2018 - —

*Thesis topic: TBD*

Mark McCoy - NMT: 2011 - —

*Thesis topic: The Chemistry and Physics of the Nearest Radio Galaxy*

Crystal Anderson - NMT: 2010 - 2016 (*graduated, Ph.D*)  
*Thesis topic: Chemistry and Structure of Giant Molecular Clouds  
 in Energetic Environments*

**Masters:**

Alexandra Lutz - NMT: 2010 - 2013 (*graduated — M.S.*)  
*Thesis topic: Numerical Modeling of Interstellar and Cometary Chemistry*

**Graduate (Committee):**

Mallory White - NMT (M.S.): 2014 (*graduated, M.S.*)  
 Ryan Shea - NMT (M.S. - *Chemistry*): 2013 - 2014 (*graduated, M.S.*)  
 Keith Morris - NMT (M.S.): 2008 - 2014 (*graduated, M.S.*)  
 James Price - NMT (M.S.): 2016 - 2017 (*graduated, M.S.*)

James Price - NMT (Ph.D): 2017 - —  
 Dana Baylis - NMT (Ph.D): 2014 - —  
 Ryen Lapham - NMT (Ph.D): 2014 - —  
 Lorraine Bowman - NMT (Ph.D): 2014 - —  
 Gareth Jones - NMT (Ph.D): 2013 - 2018 (*graduated, Ph.D*)  
 Tina Gueth - NMT (Ph.D): 2014 - 2017 (*graduated, Ph.D*)  
 Viviana Rosero - NMT (Ph.D): 2011 - 2017 (*graduated, Ph.D*)  
 Rick Cosentino - NMT (Ph.D): 2011 - 2017 (*graduated, Ph.D*)  
 Michael Stock - NMT (Ph.D): 2013 - 2014 (*graduated, Ph.D*)  
 Kristina Nyland - NMT (Ph.D): 2011 - 2015 (*graduated, Ph.D*)  
 Heather Bloemhard - NMT (Ph.D): 2010 - 2105 (*graduated, Ph.D*)  
 Josh Marvil - NMT (Ph.D): 2010 - 2014 (*graduated, Ph.D*)  
 Phil Cigan - NMT (Ph.D): 2009 - 2015 (*graduated, Ph.D*)  
 Jason Speights - NMT: 2009 - 2012 — (*graduated, Ph.D*)  
 Danielle Lucero - NMT: 2009 - 2011— (*graduated, Ph.D*)

**Undergraduate (Research):**

Brian Eisner - Macalester College (NRAO REU Co-Advisor): 2017  
 Rebecca Levy - University of Arizona (NRAO REU Co-Advisor): 2014  
 Alex Teachey - CUNY/Hunter College (NRAO REU Co-Advisor): 2014  
 Leah Morabito - University of Oklahoma (NRAO GSRP Co-Advisor): 2012  
 Zachary Edwards - Columbus State University (NRAO USRP Co-Advisor): 2012  
 Kamber Schwarz - University of Arizona (NRAO REU Co-Advisor): 2011  
 Sarah Wyss - Ohio University (NRAO REU Co-Advisor): 2010  
 Diana Grijalva - NMT (NRAO REU Co-Advisor): 2007  
 Adam Ginsburg - Rice University (NRAO REU Advisor): 2006

## Refereed Publications:

- 62) *Dense Gas, Dynamical Equilibrium Pressure, and Star Formation in Nearby Star-Forming Galaxies*,  
Gallagher, M., Leroy, A. K., Bigiel, F., Cormier, D., Jimenez-Donaire, M. J., Ostriker, E., Usero, A., Bolatto, A., Garcia-Burillo, S., Hughes, A., Kepley, A. A., Krumholz, M. R., Meidt, S. E., **Meier, D. S.**, Murphy, E. J., Pety, J., Rosolowsky, E., Schinnerer, E., Schruha, A. & Walter, F., *Astrophysical Journal*, in press [arXiv:1803.10785]
- 61) *Full-disc  $^{13}\text{CO}(1-0)$  Mapping Across Nearby Galaxies of the EMPIRE Survey and the CO-to- $\text{H}_2$  Conversion Factor*,  
Cormier, D., Bigiel, F., Jimenez-Donaire, M. J., Leroy, A. K., Gallagher, M., Usero, A., Sandstrom, K., Bolatto, A., Kramer, C., Krumholz, M. R., **Meier, D. S.**, Murphy, E. J., Pety, J., Rosolowsky, E., Schinnerer, E., Schruha, A., Sliwa, K. & Walter, F., *Monthly Notices of the Royal Astronomical Society*, 475, 3909
- 60) *The Star Formation in Radio Survey: Jansky Very Large Array 33 GHz Observations of Nearby Galaxy Nuclei and Extranuclear Star-Forming Regions*,  
Murphy, E. J., Dong, D., Momjian, E., Linden, S., Kennicutt, Jr., R. C., Meier, D. S., Schinnerer, E. & Turner, J. L. 2018, *Astrophysical Journal Supplement*, 234, 24
- 59) *ALMA CO(3-2) Observations of Star-Forming Filaments in a Gas-Poor Dwarf Spheroidal Galaxy*,  
Consiglio, S. M., Turner, J. L., Beck, S. C., **Meier, D. S.**, Silich, S. & Zhao, J.-H. 2017, *Astrophysical Journal*, 850, 54
- 58) *On the Disappearance of a Cold Molecular Torus Around the Low-Luminosity Active Galactic Nucleus of NGC 1097*,  
Krieger, N., Ott, J., Beuther, H., Walter, F., Kruijssen, J. M. D., **Meier, D. S.**, Mills, E. A. C., Contreras, Y., Edwards, P., Ginsburg, A., Henkel, C., Henshaw, J., Jackson, J., Kauffmann, J., Longmore, S., Martin, S., Morris, M. R., Pillai, T., Rickert, M., Rosolowsky, E., Shinnaga, H., Walsh, A., Yusef-Zadeh, F. & Zhang, Q., 2017, *Astrophysical Journal*, 850, 77
- 57) *On the Disappearance of a Cold Molecular Torus Around the Low-Luminosity Active Galactic Nucleus of NGC 1097*,  
Izumi, T., Kohno, K., Fathi, K., Hatziminaoglou, E., Davies, R. I., Martin, S., Matsushita, S., Schinnerer, E., Espada, D., Aalto, S., Onishi, K., Turner, J. L., Imanishi, M., Nakanishi, K. **Meier, D. S.**, Wada, K., Kawakatu, N., & Nakajima, T. 2017, *Astrophysical Journal Letters*, 845, L5
- 56)  *$^{13}\text{CO}/\text{C}^{18}\text{O}$  Gradients Across the Disks of Nearby Spiral Galaxies*,  
Jimenez-Donaire, M. J., Cormier, D., Bigiel, F., Leroy, A. K., Gallagher, M., Krumholz, M. R., Usero, A., Hughes, A., Kramer, C., **Meier, D. S.**, Murphy, E., Pety, J., Schinnerer, E., Schruha, A., Schuster, K., Sliwa, K. & Tomacic, N. 2017, *Astrophysical Journal Letters*, 836, L29
- 55) *Sub-arcsecond Imaging of the Water Emission in Arp 220*,  
König, S., Martin, S., Muller, S., Cernicharo, J., Sakamoto, K., Zschaechner, L. K., Humphreys, E. M. L., Mroczkowski, T., Krips, M., Galametz, M., Aalto, S., Vlemmings, W. H. T., Ott, J., **Meier, D. S.**, Fuente, A., Garcia-Burillo, S. & Neri, R. 2017, *Astronomy & Astrophysics*, 602, A42
- 54) *Dense Molecular Gas Tracers in the Outflow of the Starburst Galaxy NGC 253*  
Walter, F., Bolatto, A. D., Leroy, A. K., Veilleux, S., Warren, S. R., Hodge, J., Levy, R. C., **Meier, D. S.**, Ostriker, E. C., Ott, J., Rosolowsky, E., Scoville, N., Weiss, A., Zschaechner, L. K. & Zwaan, M. A. 2017, *Astrophysical Journal*, 835, 265
- 53) *Survey of Water and Ammonia in Nearby Galaxies (SWAN): Resolved Ammonia Thermometry, Water and Methanol Masers in the Nuclear Starburst of NGC 253*  
Gorski, M., Ott, J., Rand, R. J., **Meier, D. S.**, Momjian, E., Walter, F. & Schinnerer, E. 2017, *Astrophysical Journal*, 842, 124
- 52) *ALMA Detects CO(3-2) within the Super Star Cluster of NGC 5253*,  
Turner, J. L., Consiglio, S. M., Beck, S. C. Goss, W. M., Ho, P. T. P., **Meier, D. S.**, Silich, S. & Zhao, J.-H. 2017, *Astrophysical Journal*, 846, 73
- 51) *A 33 GHz Survey of Local Major Mergers: Estimating the Sizes of the Energetically Dominant Regions from High Resolution Measurements of the Radio Continuum*  
Barcos-Munoz, L., Leroy, A. K., Evans, A. E., Armus, L., Condon, J., Dias-Santos, T., Mazzerella, J. M., **Meier, D. S.**, Momjian, E., Murphy, E., Ott, J., Privon, G. C., Sanders, D. B., Schinnerer, E., Stierwalt, S., Surace, J. A., Thompson, T. A., & Walter, F. 2017, *Astrophysical Journal*, 843, 117
- 50) *Optical Depth Estimates and Effective Critical Densities of Dense Gas Tracers in the Inner Parts of Nearby Galaxy Disks*,  
Jimenez-Donaire, M. J., Bigiel, F., Leroy, A. K., Cormier, D., Gallagher, M., Usero, A., Bolatto, A., Colombo, D., Garcia-Burillo, S., Hughes, A., Kramer, C., Krumholz, M. R., **Meier, D. S.**, Murphy, E., Pety, J., Rosolowsky, E., Schinnerer, E.,

Schruba, A., Tomicic, N. & Zschaechner, L. 2017, *Monthly Notices of the Royal Astronomical Society*, 466, 49

49) *ALMA Observations of the Physical and Chemical Conditions in Centaurus A*, McCoy, M., Ott, J., **Meier, D. S.**, Walter, F., Muller, S., Espada, D., Martin, S., Israel, F. P., Henkel, C., Impellizzeri, C. M. V., Aalto, S., Edwards, P. G., Brunthaler, A., Neumayer, N., Peck, A. B., van der Werf, P. & Feain, I. 2017, *Astrophysical Journal*, in press

48) *ALMA Reveals Potential Localized Dust Enrichment from Massive Star Clusters in II Zw 40*, Consiglio, S. M., Turner, J. L., Beck, S. C. & **Meier, D. S.** 2016, *Astrophysical Journal Letters*, 833, L6

47) *The Molecular Wind in the Nearest Seyfert Galaxy Circinus Revealed by ALMA*, Zschaechner, Z. K., Walter, F., Bolatto, A., Farina, E. P., Kruijssen, J. M. D., Leroy, A., **Meier, D. S.**, Ott, J., & Veilleux, S. 2016, *Astrophysical Journal*, 832, 142

46) *High Resolution Observations of Molecular Lines in Arp 220: Kinematics, Morphology, and Limits on the Applicability of the Ammonia Thermometer*, Zschaechner, L. K., Ott, J., Walter, F., **Meier, D. S.**, Momjian, E., & Scoville, N. Z. 2016, *Astrophysical Journal*, 833, 41

45) *AGN Feedback in the Nucleus of M51*, Querejeta, M., Schinnerer, E., Garca-Burillo, S., Bigiel, F., Blanc, G. A., Colombo, D., Pety, J., Hughes, A., Kreckel, K., Leroy, A. K., Meidt, S. E., **Meier, D. S.**, Pety, J., & Sliwa, K. 2016, *Astronomy & Astrophysics*, 593, 118

44) *Submillimeter-HCN Diagram for an Energy Diagnostics in the Centers of Galaxies*, Izumi, T., Kohno, K., Aalto, S., Espada, D., Fathi, K., Harada, N., Hatsukade, B., Hsieh, P.-Y., Imanishi, M., Krips, M., Martin, S., Matsushita, S., **Meier, D. S.**, Nakai, N., Nakanishi, K., Schinnerer, E., Sheth, K., Terashima, Y. & Turner, J. 2016, *Astrophysical Journal*, 818, 42

43) *A New Constraint on the Molecular Oxygen Abundance at  $z \sim 0.886$* , Kanekar, N. & **Meier, D. S.** 2015, *Astrophysical Journal Letters*, 811, L23

42) *Microwave Continuum Emission and Dense Gas Tracers in NGC 3627: Combining Jansky VLA and ALMA Observations*, Murphy, E. J., Dong, D., Leroy, A. K., Momjian, E., Condon, J. J., Helou, G., **Meier, D. S.**, Ott, J., Schinnerer, E. & Turner, J. L. 2015, *Astrophysical Journal*, 813, 118

41) *Local Instability Signatures in ALMA Observations of Dense Gas in NGC 7469*, Fathi, K., Izumi, T., Romeo, A. B., Martin, S., Imanishi, M., Hatziminaoglou, E., Aalto, S., Espada, D., Kohno, K., Krips, M., Matsushita, S., **Meier, D. S.**, Nakai, N., & Terashima, Y., 2015, *Astrophysical Journal Letters*, 806, L34

40) *ALMA Observations of the Submillimeter Dense Molecular Gas Tracers in the Luminous Type-1 Active Nucleus of NGC 7469*, Izumi, T., Kohno, K., Aalto, S., Doi, A., Espada, D., Fathi, K., Harada, N., Hatsukade, B., Hattori, T., Hsieh, P.-Y., Ikarashi, S., Imanishi, M., Iono, D., Ishizuki, S., Krips, M., Martin, S., Matsushita, S., **Meier, D. S.**, Nagai, H., Nakai, N., Nakajima, T., Nakanishi, K., Nomura, H., Regan, M., Schinnerer, E., Sheth, K., Takano, S., Tamura, Y., Terashima, Y., Tosaki, T., Turner, J., Umehata, H. & Wiklind, T. 2015, *Astrophysical Journal*, 811, 39

39) *Multi-line ALMA Observations Towards the Seyfert 1 Galaxy NGC 1097*, Martin, S., Kohno, K., Izumi, T., Krips, M., **Meier, D. S.**, Aladro, R., Matsushita, S., Takano, S., Turner, J. L., Espada, D., Nakajima, T., Terashima, Y., Fathi, K., Hsieh, P.-Y., Imanishi, M., Lundgren, A., Nakai, N., Schinnerer, E., Sheth, K., & Wiklind, T. 2015 *Astronomy & Astrophysics*, 573, A116

38) *Highly efficient star formation in NGC 5253 possibly from stream-fed accretion*, Turner, J. L., Beck, S. C., Benford, D. J., Consiglio, S. M., Ho, P. T. P., Kovacs, A., **Meier, D. S.**, & Zhao, J.-H. 2015 *Nature*, 519, 331

37) *ALMA Reveals the Molecular Medium Fueling the Nearest Nuclear Starburst*, Leroy, A. K., Bolatto, A., D., Ostricker, E. C., Rosolowsky, E., Walter, F., Warren, S. R., Donovan-Meyer, J., Hodge, J., **Meier, D. S.**, Ott, J., Sandstrom, K., Schruba, A., Veilleux, S. & Zwaan, M., 2015 *Astrophysical Journal*, 801, 25

36) *Suppression of Star Formation in NGC 1266*, Alatalo, K., Lacy, M., Lanz, L., Bitsakis, T., Appleton, P. N., Nyland, K., Cales, S. L., Chang, P., Davis, T. A., de Zeeuw, P. T., Lonsdale, C. J., Martin, S., **Meier, D. S.**, & Ogle, P. M. 2015 *Astrophysical Journal*, 798, 31



- 35) *ALMA Multi-Line Imaging of the Nearby Starburst NGC 253*,  
**Meier, D. S.**, Walter, F., Bolatto, A. D., Leroy, A. K., Ott, J., Rosolowsky, E., Veilleux, S., Warren, S. R., Weiss, A., Zwaan, M. A., & Zschaechner, L. K. 2015 *Astrophysical Journal*, 801, 63
- 34) *High-Resolution Radio Continuum Measurements of the Nuclear Disks of Arp 220*,  
 Barcos-Munoz, L., Leroy, A. K., Evans, A. S., Privon, G. C., Armus, L., Condon, J., Mazzarella, J. W., **Meier, D. S.**, Momjian, E., Murphy, E. J., Ott, J., Reichardt, A., Sakamoto, K., Sanders, D. B., Schinnerer, E., Stierwalt, S., Surace, J., Thompson, T. & Walter, F. 2015, *Astrophysical Journal*, 799, 10
- 33) *From Gas to Stars in Energetic Environments: Dense Gas Clumps in the 30 Doradus Region Within the Large Magellanic Cloud*,  
 Anderson, C. N., **Meier, D. S.**, Ott, J., Hughes, A., Wong, T., Henkel, C., Chen, R., Indebetouw, R., Looney, L., Muller, E., Pineda, J. L. & Seale, J. 2014 *Astrophysical Journal*, 793, 37
- 32) *ATCA Survey of Ammonia in the Galactic Center: The Temperatures of the Dense Gas Clumps Between Sgr A\* and Sgr B2*,  
 Ott, J., Weiss, A., Staveley-Smith, L., Henkel, C., & **Meier, D. S.**, 2014 *Astrophysical Journal*, 785, 55
- 31) *Spatially Resolved Chemistry in Nearby Galaxies III. Dense Molecular Gas in the Inner Disk of the LIRG IRAS 04296+2923*,  
**Meier, D. S.**, Turner, J. L. & Beck, S. C., 2014 *Astrophysical Journal*, 795, 107
- 30) *The Circumnuclear Star Formation Environment of NGC 6946: Br  $\gamma$  and H<sub>2</sub> Results from Keck Integral Field Spectroscopy*,  
 Tsai, C.-W., Turner, J. L., Beck, S. C., **Meier, D. S.** & Wright, S. A., 2013 *Astrophysical Journal*, 776, 70
- 29) *Submillimeter ALMA Observations of Dense Gas in the Low-Luminosity Type-1 Active Nucleus of NGC 1097*,  
 Izumi, T., Kohno, K., Martin, S., Espada, D., Harada, N., Matsushita, S., Hseih, P.-Y., Turner, J., **Meier, D. S.**, Schinnerer, E., Imanishi, M., Tamura, Y., Curran, M. T., Doi, A., Fathi, K., Krips, M., Lundgren, A. A., Nakai, N., Nakajima, T., Regan, M., Sheth, K., Takano, S., Tanaguchi, A., Terashima, Y., Tosaki, T., & Wiklind, T. 2013, *Publication of the Astronomical Society of Japan*, 65, 100
- 28) *Discovery of Nuclear Water Maser Emission in Centaurus A*,  
 Ott, J., **Meier, D. S.**, McCoy, M., Peck, A., Impellizzeri, V., Brunthaler, A., Walter, F., Edwards, P., Anderson, C. N., Henkel, C., Feain, I., & Mao, M. Y. 2013, *Astrophysical Journal Letters*, 771, L41
- 27) *ALMA Follows Streaming of Dense Gas Down to 40 pc from the Supermassive Black Hole in NGC 1097*,  
 Fathi, K., Lundgren, A. A., Pinol-Ferrer, N., Martin, S., Espada, D., Hatziminaoglou, E., Imanishi, M., Krips, M., Matsushita, S., **Meier, D. S.**, Nakai, N., Sheth, K., Turner, J., van de Ven, G. & Wiklind, T. 2013, *Astrophysical Journal Letters*, 770, L27
- 26) *Spatially Resolved Chemistry in Nearby Galactic Nuclei II. The Nuclear Bar in Maffei 2*,  
**Meier, D. S.** & Turner, J. L. 2012, *Astrophysical Journal*, 755, 104
- 25) *Resolving Gas Chemistry at Arcsecond Scales in Nearby Spiral Nuclei*,  
**Meier, D. S.**, Turner, J. L. & Schinnerer, E. 2012, *Journal of Physics, Conference Series*, 372, 012042
- 24) *Complex Radio Spectral Energy Distributions in Luminous and Ultraluminous Infrared Galaxies*  
 Leroy, A. K., Evans, A. S., Momjian, E., Murphy, E., Ott, J., Armus, L., Condon, J., Haan, S., **Meier, D. S.**, Privon, G. C., Schinnerer, E., Surace, J. & Walter, F., 2011, *Astrophysical Journal Letters*, 739, 25
- 23) *Cyanoacetylene in IC 342: An Evolving Dense Gas Component with Starburst Age*  
**Meier, D. S.**, Turner, J. L. & Schinnerer, E., 2011, *Astronomical Journal*, 142, 32
- 22) *First Views of A Nearby LIRG: Star Formation and Molecular Gas in IRAS 04296+2923*,  
**Meier, D. S.**, Turner, J. L., Beck, S. C., Gorjian, V., Tsai, C.-W., & Van Dyk, S. D., 2010 *Astronomical Journal*, 140, 1294
- 21) *Locating the Youngest HII Regions in M 82 With 7 MM Continuum Maps*,  
 Tsai, C.-W., Turner, J. L., Beck, S. C., **Meier, D. S.** & Ho, P. T. P. 2009 *Astronomical Journal*, 137, 4655
- 20) *Self-Regulated Fueling of Galaxy Centers: Evidence for Star Formation Feed-back in IC 342's Nucleus*,  
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