

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 - 13th 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 - —

Publications of the Astronomical Society of Japan Referee: 2016 - —

Monthly Notices of the Royal Astronomical Society Referee: 2016 - —

NMT Faculty Mentor: 2015 - —

Scientific Organizing Committee:

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

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 - —

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, 2015 - —

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:

Mac 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:

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

Mark McCoy - NMT: 2011 - —
Thesis topic: TBD

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.*)

Tina Gueth - NMT (Ph.D): 2014 - —
Dana Baylis - NMT (Ph.D): 2014 - —
Ryen Lapham - NMT (Ph.D): 2014 - —
Lorraine Bowman - NMT (Ph.D): 2014 - —
Gareth Jones - NMT (Ph.D): 2013 - —
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:

- 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. 2017, *Astrophysical Journal Supplement*, in press [arXiv:1711.03976]
- 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) *¹³CO/C¹⁸O 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., Schrubba, A., Schuster, K., Sliwa, K. & Tomicic, 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., Schrubba, 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 Zweekuw, 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 γ and H₂ 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., Hsieh, 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*,

Schinnerer, E., Böker, T., **Meier, D. S.** & Calzetti, D. 2008, *Astrophysical Journal Letters*, 684, L21

19) *Detection of Interstellar Cyanformaldehyde (CNCHO)*,

Remijan, A. J., Hollis, J. M., Lovas, F. J., Stork, W. D., Jewell, P. R., & **Meier, D. S.**, 2008, *Astrophysical Journal Letters*, 675, L85

18) *Gas and Dust Associated with the Strange, Isolated, Star BP Piscium*,

Zuckerman, B., Melis, C., Song, I., **Meier, D. S.**, Perrin, M. D., Macintosh, B., Marois, C., Weinberger, A. J., Rhee, J. H., Graham, J. R., Kastner, J. H., Palmer, P. Forveille, T., Becklin, E. E., Wilner, D. J., Barman, T. S., Marcy, G. W. & Bessell, M. S. 2008, *Astrophysical Journal*, 683, 1085

17) *Nuclear Bar Catalyzed Star Formation: ¹³CO, C¹⁸O and Molecular Gas Properties in the Nucleus of Maffei 2*,

Meier, D. S., Turner, J. L. & Hurt, R. L. 2008, *Astrophysical Journal*, 675, 281

- 16) *Chemical Complexity in Galaxies*,
Turner, J. L. & **Meier, D. S.**, 2008, *Astrophysics & Space Sciences*, 313, 267
- 15) *Brackett Lines from the Super Star Cluster Nebulae in He 2-10*,
Henry, A. L., Turner, J. L., Beck, S. C., Crosthwaite, L. P. & **Meier, D. S.**, 2007, *Astronomical Journal*, 133, 757
- 14) *Subarcsecond-Resolution Radio Maps of Nearby Spiral Galaxies*,
Tsai, C.-W., Turner, J. L., Beck, S. C., Crosthwaite, L. P., Ho, P. T. P. & **Meier, D. S.**, 2006, *Astronomical Journal*, 132, 2383
- 13) *A Survey of Large Molecules Towards the Protoplanetary Nebula CRL 618*,
Remijan, A., Wyrowski, F., Friedel, D. N., **Meier, D. S.**, & Snyder, L. E., 2005, *Astrophysical Journal*, 626, 233
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