

Karen O'Neil

Curriculum Vitae

Green Bank Observatory
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Education

- 1998–2000: **Postdoctoral Research Fellowship**, *Arecibo Observatory*.
Area: Radio Astronomy (Instrumentation and Extragalactic Research)
- 1991–1997: **PhD in Physics**, *University of Oregon*.
Dissertation: *Faint Fuzzy Stuff: The Missing Baryons?*
- 1991–1993: **Masters in Physics**, *University of Oregon*.
- 1987–1991: **Bachelor of Science with high honors in Physics/Mathematics**, *Marlboro College*.
Plan of Concentration: *Explosion, Inflation, & History: An Historical Description of Two Cosmological Models*

Employment History

Green Bank Observatory (*was National Radio Astronomy Observatory*)

- 2016–2021: **Director**, *Green Bank Observatory*.
Oversaw successful creation of new organization, the Green Bank Observatory; Provided all facility oversight and planning, including staff, budget, instrumentation and science.
- 2008–2016: **Assistant Director**, *NRAO - Green Bank*.
Provided all facility oversight and planning, including staff, budget, instrumentation and science.
- 2006–2008: **Interim Assistant Director**, *NRAO - Green Bank*.
Provided all facility oversight and planning, including staff, budget, instrumentation and science.
- 2006: **Program Manager**, *NRAO - Green Bank*.
Oversaw the creation of the Program Management division and implementation of formal program management practices. Managed portfolio of all site projects.
- 2004–2006: **Associate Scientist**, *NRAO - Green Bank*.
Provide instrumentation and observing support. Project scientist for numerous projects, including creating GBT Dynamic Scheduling System, Zspectrometer backend, Ka receiver upgrade, and others.
- 2003–2004: **Assistant Scientist**, *NRAO - Green Bank*.
Provide instrumentation and observing support. Project scientist for numerous projects, including the GBT spectrometer, ASTRID, pulsar spigot, and others

Arecibo Observatory

- 2000–2003: **Staff Research Associate**, *Astronomy Department*.
Provide instrumentation and observing support. Project scientist for numerous projects, including the new observing system, CIMA spectral line system, Arecibo migration into AIPS++ Arecibo astronomy web pages. Aided in the full polarization characterization of Arecibo
- 1998–2000: **Post Doctoral Research Associate**, *Astronomy Department*.
Provide instrumentation and observing support. Aid in the commissioning of the Arecibo Telescope after its Gregorian Dome and spectrometer upgrade

University of Oregon

- 1997–1998: **Adjunct Professor**, *Physics Department*.
Research, and teaching of introductory physics and astronomy courses
- 1993–1997: **Graduate Research Assistant**, *Physics Department*.
Research assistant to Dr. G. Bothun

- 1991-1993: **Graduate Teaching Assistant**, *Physics Department*.
Graduate teaching assistant to introductory and advanced undergraduate lab classes
[Wellsprings Friends School](#)
- 1996: **High school science teacher**.
9th grade astronomy and earth science
[Argonne National Laboratory](#)
- 1990: **Undergraduate Research Assistant**, *High Energy Physics Department*.
Wrote test software for ZEUS detector for the CERN HERA collider
[Marlboro College](#)
- 1989: **Undergraduate Research Assistant**, *Department of Science*.
Undergraduate research aid to Dr. J. Mazur
- 1990-1991: **Lecturer, Introductory Physics**, *Marlboro College*, Marlboro, VT.
Taught introductory math and physics courses
- 1988-1991: **Tutor, Physics and mathematics**, *Marlboro College*, Marlboro, VT.
Tutored math and physics undergraduate students as part of work study program
[Marlboro Elementary School](#)
- 1988-1991: **Elementary school mathematics teacher**, *Marlboro Elementary School*, Marlboro, VT.
5th and 6th grade advance mathematics teacher
[Adjunct/Visiting Positions](#)
- 2010-2016: **Adjunct Professor of Physics**, *West Virginia University*.
2005: **Visiting Scientist**, *University of Paris*.

Professional Appointments

Board of Directors

- 2008-present: **West Virginia Spacegrant Board**, *Member*.
2011-present: **Northern Pocahontas Community Wellness Board**, *President*.
2019-2021: **Gemini Observatory Board**, *Deputy Chair (2020-2021)*, *Member (2019-2021)*.

Professional Committees and Review Panels

- 2021: **Rubin Joint Operations Director's Review**, *Co-Chair*.
2021: **6th US/China Science and Technology Workshop**, *Member, Science Org. Comm.*.
2020: **Science & Engineering of Spectrum: Current Challenges & Future Directions**, *Panelist*.
2020: **Wider and Deeper: The new ARGUS-144 Instrument**, *Panelist*.
2020: **NRC Facility Review of DRAO Facilities**, *Review Panel member*.
2020: **Basic Plasma Physics User Facility (Laboratories)**, *Panelist*.
2018: **NSF Astronomy and Astrophysics Grants Inter-Galactic Medium**, *Review Panel*.
2013-2014: **Arecibo Observatory User's Committee**, *Member*.
2012: **Global Properties of HI in Galaxies**, *Member, SOC*.
2011: **Innovations in Data Intensive Astronomy**, *Member, SOC & LOC*.
2001-2011: **School on Single-Dish Radio Astronomy**, *Member, SOC*.
2006: **NSF Universities Radio Observatories Review Panel**, *Alternate Chair*.
2001: **Observing with the Upgraded Arecibo Telescope**, *Chair, SOC*.
2001: **AIPS++ Users Group**, *Member*.
1998-2001: **Arecibo Observatory Colloquium**, *Co-Chair*.
1998-2000: **Arecibo Observatory Journal Society**, *Co-chair*.

- 1995-1997: **University of Oregon Physics Department admissions & awards committee**, *Member*.
 1994-1995: **University of Oregon Physics faculty**, *Grad student representative*.
 1992-1993: **Pine Mountain Observatory**, *Grad student representative*.

SIGNIFICANT GRANTS AND CONTRACTS RECEIVED

- 2021: **Best Practices in K-12 STEM Research Experiences**, *NSF*, \$74,320.
 2021: **Pulsar Monitoring to detect the background of gravitational waves**, *Gordan & Betty Moore Foundation*, (\$2,316,000).
 2021: **North American NanoHertz Gravitational Wave Observatory - GBT Time**, *West Virginia University*, \$1,500,000.
 2021: **Breakthrough Listen**, *Breakthrough Prize Foundation*, \$8,000,000.
 2019: **GBT Observing of NAOC FAST Astronomy Projects**, *NAOC*, \$ 599,400.
 2019: **Barry Blumberg Symposium on Astrobiology**, *United Therapeutics*, \$250,000.
 2012-2019: **Advanced work for RadioAstron**, *Lebedev Institute*, \$14,805,556.
 2013-2019: **WVU use of the GBT**, *West Virginia University Research Corporation*, \$2,600,00.
 2016: **Management and Operations of the Green Bank Observatory**, *NSF*, \$44,390,999.
 2016: **Improving STEM persistence in persistence in the first two years of college**, *NSF*, \$299,705.
 2015: **Breakthrough Listen**, *Breakthrough Prize Foundation*, \$10,000,000.
 2015: **Shinen-2 Observations with GBT**, *Prairie View A&M University*, \$30,550.
 2014: **NYUAD use of the GBT**, *New York University at Abu Dhabi*, \$60,00.
 2014: **North American NanoHertz Gravitational Wave Observatory - GBT Time**, *West Virginia University*, \$1,500,000.
 2014: **ASIAA GBT-HIM 800MHz Phase II Effort**, *ASIAA*, (\$118,691.
 2011: **NAIC/NRAO Sixth School on Single Dish Radio Astronomy**, *NSF*, \$24,457.
 2011: **Collaborative Research:**, *Development of a Millimeter-wave Phased Focal Plane Array*, *NSF*, \$855,978.
 2011: **Innovations in Data-Intensive Astronomy Workshop**, *NSF*, \$49,977.
 2011: **Bi-static Atmospheric Studies**, *Massachusetts Institute of Technology*, \$4739,974.
 2010: **Advanced Multi-beam Spectrometer for the GBT**, *NSF*, \$1,556,426.
 2005: **Star Formation and Molecular Gas in Massive Low Surface Brightness Galaxies**, *NASA*, \$40,000.
 1993 – 1994: **GAAN fellowship**, *U.S. Department of Education* .

PATENTS

- Filed **Motorized Automatic Door Opener**, (*US Application No/ 17/356,058*).

Memberships & Affiliations

Professional Affiliations

- 2010 **Association for the Advancement of Women in Science**, *member*.
 2005-present **Union Radio-Scientifique Internationale (URSI)**, *member*.
 2000-present **International Astronomical Union**, *member*.
 1998-present **American Astronomical Society**, *member*.
 2015-present **American Association for the Advancement of Science**, *member*.

Community Affiliations

- 2019-present: **Radioactive Robotics (STEM Outreach organization)**, *President*.
- 2011-present: **Northern Pocahontas Community Wellness Board**, *President*.
- 2019-present: **Pocahontas County High School First Tech Challenge (Robotics) Team**, *Coach*.
- 2017-2021: **Green Bank Elementary Middle School First Lego League (Robotics) Team**, *Coach*.
- 2012-2021: **Pocahontas County Youth Soccer League**, *Board member*.

Publications

Refereed Journal Articles

- 2013 Yogesh Maan, Avinash A. Deshpande, Vinutha Chandrashekar, Jayanth Chennamangalam, K. B. Raghavendra Rao, R. Somashekar, Gary Anderson, M. S. Ezhilarasi, S. Sujatha, S. Kasturi, P. Sandhya, Jonah Bauserman, R. Duraichelvan, Shahram Amiri, H. A. Aswathappa, Indrajit V. Barve, G. Sarabagopalan, H. M. Ananda, Carla Beaudet, Marty Bloss, Deepa B. Dhamnekar, Dennis Egan, John Ford, S. Krishnamurthy, Nikhil Mehta, Anthony H. Minter, H. N. Nagaraja, M. Narayanaswamy, Karen O'Neil, Wasim Raja, Harshad Sahasrabudhe, Amy Shelton, K. S. Srivani, H. V. Venugopal, and Salna T. Viswanathan. RRI-GBT Multi-band Receiver: Motivation, Design, and Development. *ApJS*, volume 204, page 12, January 2013.
- 2011 Wolfram Freudling, Lister Staveley-Smith, Barbara Catinella, Robert Minchin, Mark Calabretta, Emmanuel Momjian, Martin Zwaan, Martin Meyer, and Karen O'Neil. Deep 21 cm H I Observations at $z \approx 0.1$: The Precursor to the Arecibo Ultra Deep Survey. *ApJ*, volume 727, page 40, January 2011.
- 2010 R. F. Minchin, E. Momjian, R. Auld, J. I. Davies, D. Valls-Gabaud, I. D. Karachentsev, P. A. Henning, K. L. O'Neil, S. Schneider, M. W. L. Smith, M. D. Stage, R. Taylor, and W. van Driel. The Arecibo Galaxy Environment Survey. III. Observations Toward the Galaxy Pair NGC 7332/7339 and the Isolated Galaxy NGC 1156. *AJ*, volume 140, pages 1093–1118, October 2010.
- 2009 J. F. Helmboldt, R. A. M. Walterbos, G. D. Bothun, K. O'Neil, and M. S. Oey. The dependence of HII region properties on global and local surface brightness within galaxy discs. *MNRAS*, volume 393, pages 478–490, February 2009.
- 2008 L. Cortese, R. F. Minchin, R. R. Auld, J. I. Davies, B. Catinella, E. Momjian, J. L. Rosenberg, R. Taylor, G. Gavazzi, K. O'Neil, M. Baes, A. Boselli, G. Bothun, B. Koribalski, S. Schneider, and W. van Driel. The Arecibo Galaxy Environment Survey - II. A HI view of the Abell cluster 1367 and its outskirts. *MNRAS*, volume 383, pages 1519–1537, February 2008.
- 2007 K. O'Neil, M. S. Oey, and G. Bothun. Star Formation in Galaxies with Large Lower Surface Brightness Disks. *AJ*, volume 134, pages 547–565, August 2007.
- 2007 Charles T. Liu, Eric J. Hooper, Karen O'Neil, David Thompson, Marsha Wolf, and Thorsten Lisker. G515, Revisited. I. Stellar Populations and Evidence of Nuclear Activity in A Luminous "E+A" Galaxy. *ApJ*, volume 658, pages 249–257, March 2007.
- 2007 S. C. Chapman, J. Peñarrubia, R. Ibata, A. McConnachie, N. Martin, M. Irwin, A. Blain, G. F. Lewis, B. Letarte, K. Lo, A. Ludlow, and K. O'Neil. Strangers in the Night: Discovery of a Dwarf Spheroidal Galaxy on Its First Local Group Infall. *ApJL*, volume 662, pages L79–L82, June 2007.
- 2006 G. Gavazzi, K. O'Neil, A. Boselli, and W. van Driel. H I observations of galaxies. II. The Coma Supercluster. *A&AP*, volume 449, pages 929–935, April 2006.
- 2006 Mousumi Das, Karen O'Neil, Stuart N. Vogel, and Stacy McGaugh. CO Detection and Millimeter Continuum Emission from Low Surface Brightness Galaxies. *ApJ*, volume 651, pages 853–860, November 2006.
- 2006 L. Cortese, G. Gavazzi, A. Boselli, P. Franzetti, R. C. Kennicutt, K. O'Neil, and S. Sakai. Witnessing galaxy preprocessing in the local Universe: the case of a star-bursting group falling into Abell 1367. *A&AP*, volume 453, pages 847–861, July 2006.

- 2006 R. Auld, R. F. Minchin, J. I. Davies, B. Catinella, W. van Driel, P. A. Henning, S. Linder, E. Momjian, E. Muller, K. O’Neil, S. Sabatini, S. Schneider, G. Bothun, L. Cortese, M. Disney, G. L. Hoffman, M. Putman, J. L. Rosenberg, M. Baes, W. J. G. de Blok, A. Boselli, E. Brinks, N. Brosch, J. Irwin, I. D. Karachentsev, V. A. Kilborn, B. Koribalski, and K. Spekkens. The Arecibo Galaxy Environment Survey: precursor observations of the NGC 628 group. *MNRAS*, volume 371, pages 1617–1640, October 2006.
- 2005 S. Sabatini, J. Davies, W. van Driel, M. Baes, S. Roberts, R. Smith, S. Linder, and K. O’Neil. The dwarf low surface brightness galaxy population of the Virgo Cluster - II. Colours and HI line observations. *MNRAS*, volume 357, pages 819–833, March 2005.
- 2005 K. O’Neil. Erratum: “New Reference Galaxy Standards for H I Emission Observations“ (AJ, 128, 2080 [2004]). *AJ*, volume 130, pages 2435–2435, November 2005.
- 2005 D. L. Kaplan, R. P. Escoffier, R. J. Lacasse, K. O’Neil, J. M. Ford, S. M. Ransom, S. B. Anderson, J. M. Cordes, T. J. W. Lazio, and S. R. Kulkarni. The Green Bank Telescope Pulsar Spigot. *PASP*, volume 117, pages 643–653, June 2005.
- 2005 J. F. Helmboldt, R. A. M. Walterbos, G. D. Bothun, and K. O’Neil. Star Formation in H I-selected Galaxies. II. H II Region Properties. *ApJ*, volume 630, pages 824–836, September 2005.
- 2005 G. Gavazzi, A. Boselli, W. van Driel, and K. O’Neil. Completing H I observations of galaxies in the Virgo cluster. *A&AP*, volume 429, pages 439–447, January 2005.
- 2004 Sarah Roberts, Jonathan Davies, Sabina Sabatini, Wim van Driel, Karen O’Neil, Maarten Baes, Suzanne Linder, Rodney Smith, and Rhodri Evans. A search for low surface brightness dwarf galaxies in different environments. *MNRAS*, volume 352, pages 478–492, August 2004.
- 2004 K. O’Neil and E. Schinnerer. Properties of Molecular Gas in Massive Low Surface Brightness Galaxies, Including New ¹²CO Observations of Three Malin 1 “Cousins”. *ApJL*, volume 615, pages L109–L112, November 2004.
- 2004 K. O’Neil, G. Bothun, W. van Driel, and D. Monnier Ragaigne. A new H I catalog of Low Surface Brightness galaxies out to $z = 0.1$. Tripling the number of massive LSB galaxies known. *A&AP*, volume 428, pages 823–835, December 2004.
- 2004 K. O’Neil. New Reference Galaxy Standards for H I Emission Observations. *AJ*, volume 128, pages 2080–2097, November 2004.
- 2004 J. F. Helmboldt, R. A. M. Walterbos, G. D. Bothun, K. O’Neil, and W. J. G. de Blok. Star Formation in H I-Selected Galaxies. I. Sample Characteristics. *ApJ*, volume 613, pages 914–932, October 2004.
- 2003 W. van Driel, K. O’Neil, V. Cayatte, P. A. Duc, J. M. Dickey, C. Balkowski, H. Hernández, J. Iglesias-Páramo, P. Papaderos, J. M. Vílchez, and T. X. Thuan. Non-confirmation of reported HI clouds without optical counterparts in the Hercules cluster. *A&AP*, volume 399, pages 433–439, February 2003.
- 2003 K. O’Neil, E. Schinnerer, and P. Hofner. Further Discoveries of ¹²CO in Low Surface Brightness Galaxies. *ApJ*, volume 588, pages 230–242, May 2003.
- 2003 K. O’Neil and E. Schinnerer. The First CO Map of a Low Surface Brightness Galaxy. *ApJL*, volume 588, pages L81–L84, May 2003.
- 2003 K. O’Neil, S. Andreon, and J. C. Cuillandre. The $z \leq 0.1$ surface brightness distribution. *A&AP*, volume 399, pages L35–L38, March 2003.
- 2003 D. Monnier Ragaigne, W. van Driel, K. O’Neil, S. E. Schneider, C. Balkowski, and T. H. Jarrett. A search for Low Surface Brightness galaxies in the near-infrared. II. Arecibo H I line observations. *A&AP*, volume 408, pages 67–78, September 2003.

- 2003 J. Iglesias-Páramo, W. van Driel, P. A. Duc, P. Papaderos, J. M. Vílchez, V. Cayatte, C. Balkowski, K. O'Neil, J. Dickey, H. Hernández, and T. X. Thuan. A study of H I-selected galaxies in the Hercules cluster. *A&AP*, volume 406, pages 453–469, August 2003.
- 2003 Christopher J. Conselice, Karen O'Neil, John S. Gallagher, and Rosemary F. G. Wyse. Galaxy Populations and Evolution in Clusters. IV. Deep H I Observations of Dwarf Elliptical Galaxies in the Virgo Cluster. *ApJ*, volume 591, pages 167–184, July 2003.
- 2003 S. Boissier, D. Monnier Ragainne, N. Prantzos, W. van Driel, C. Balkowski, and K. O'Neil. Chemical and spectrophotometric evolution of low surface brightness galaxies. *MNRAS*, volume 343, pages 653–664, August 2003.
- 2002 D. Monnier Ragainne, W. van Driel, C. Balkowski, S. E. Schneider, T. H. Jarrett, and K. O'Neil. A Study of 2MASS Low Surface Brightness Galaxies. *ApS&S*, volume 281, pages 145–146, July 2002.
- 2002 Aeree Chung, J. H. van Gorkom, K. O'Neil, and G. D. Bothun. Low Surface Brightness Galaxies and the Tully-Fisher Relation. *AJ*, volume 123, pages 2387–2401, May 2002.
- 2001 Carl Heiles, Phil Perillat, Michael Nolan, Duncan Lorimer, Ramesh Bhat, Tapasi Ghosh, Murray Lewis, Karen O'Neil, Chris Salter, and Snezana Stanimirovic. Mueller Matrix Parameters for Radio Telescopes and Their Observational Determination. *PASP*, volume 113, pages 1274–1288, October 2001.
- 2001 Carl Heiles, Phil Perillat, Michael Nolan, Duncan Lorimer, Ramesh Bhat, Tapasi Ghosh, Ellen Howell, Murray Lewis, Karen O'Neil, Chris Salter, and Snezana Stanimirovic. All-Stokes Parameterization of the Main Beam and First Sidelobe for the Arecibo Radio Telescope. *PASP*, volume 113, pages 1247–1273, October 2001.
- 2000 Karen O'Neil, G. D. Bothun, and C. D. Impey. Structural Characteristics of Faint Galaxies Serendipitously Discovered with the Hubble Space Telescope WFPC2. *ApJS*, volume 128, pages 99–123, May 2000.
- 2000 Karen O'Neil, G. D. Bothun, and C. D. Impey. Erratum: "Hubble Space Telescope WFPC2 Imaging of Three Low Surface Brightness Dwarf Elliptical Galaxies in the Virgo Cluster" [</abs/1999AJ...118.1618O>] [*Astron. J.* 118, 1618 (1999)]. *AJ*, volume 119, pages 984–984, February 2000.
- 2000 K. O'Neil, M. A. W. Verheijen, and S. S. McGaugh. Star Formation and Tidal Encounters with the Low Surface Brightness Galaxy UGC 12695 and Companions. *AJ*, volume 119, pages 2154–2165, May 2000.
- 2000 K. O'Neil, P. Hofner, and E. Schinnerer. First Detection of CO in a Low Surface Brightness Galaxy. *ApJL*, volume 545, pages L99–L102, December 2000.
- 2000 K. O'Neil, G. D. Bothun, and J. Schombert. Red, Gas-Rich Low Surface Brightness Galaxies and Enigmatic Deviations from the Tully-Fisher Relation. *AJ*, volume 119, pages 136–152, January 2000.
- 2000 K. O'Neil and G. Bothun. The Space Density of Galaxies through $\mu_B(0)=25.0$ Magnitudes per Inverse Arcsecond Squared. *ApJ*, volume 529, pages 811–815, February 2000.
- 1999 Karen O'Neil, G. D. Bothun, and C. D. Impey. Hubble Space Telescope WFPC2 Imaging of Three Low Surface Brightness Dwarf Elliptical Galaxies in the Virgo Cluster. *AJ*, volume 118, pages 1618–1634, October 1999.
- 1998 Karen O'Neil, G. D. Bothun, and J. Schombert. The Effects of Starburst Activity on Low Surface Brightness Disk Galaxies. *AJ*, volume 116, pages 2776–2792, December 1998.
- 1998 Karen O'Neil, G. D. Bothun, C. D. Impey, and S. McGaugh. Hubble Space Telescope Wide Field Planetary Camera 2 Imaging of UGC 12695: A Remarkably Unevolved Galaxy at Low Redshift. *AJ*, volume 116, pages 657–672, August 1998.

- 1997 Karen Louise O'Neil. *Faint Fuzzy Stuff: the Missing Baryons?* PhD thesis, UNIVERSITY OF OREGON, January 1997.
- 1997 Karen O'Neil, G. D. Bothun, J. Schombert, Mark E. Cornell, and C. D. Impey. A Wide Field CCD Survey for Low Surface Brightness Galaxies.II.Color Distributions, Stellar Populations, and Missing Baryons. *AJ*, volume 114, page 2448, December 1997.
- 1997 Karen O'Neil, G. D. Bothun, and Mark E. Cornell. A Wide Field CCD Survey for Low Surface Brightness Galaxies:I.Data Acquisition, Description, and Initial Results. *AJ*, volume 113, page 1212, April 1997.
- 1997 K. O'Neil. Faint Fuzzy Stuff: The Missing Baryons? *PASP*, volume 109, page 1395, December 1997.
- 1996 Karen O'Neil, G. D. Bothun, Eric P. Smith, and T. P. Stecher. Deep UV Imaging of Galaxies in the Fornax Cluster. *AJ*, volume 112, page 431, August 1996.

Non-refereed Articles (Conferences, etc.)

- 2021 K. O'Neil, W. Armentrout, A. Bonsall, J. Bublitz, N. Butterfield, D. Frayer, T. Ghosh, B. Gregory, F. Lockman, R. Lynch, A. Minter, L. Morgan, F. Paganelli, C. Romero, P. Salas, and A. Seymour. Looking to the Future: The 100-m Green Bank Telescope. In *American Astronomical Society Meeting Abstracts*, volume 53 of *American Astronomical Society Meeting Abstracts*, page 542.04, January 2021.
- 2021 L. Morgan, W. Armentrout, D. Frayer, F. Lockman, N. Butterfield, A. Minter, K. O'Neil, and P. Salas. Argus-144: High resolution molecular gas mapping with a 144-element W-Band Array on the Green Bank Telescope. In *American Astronomical Society Meeting Abstracts*, volume 53 of *American Astronomical Society Meeting Abstracts*, page 326.06, June 2021.
- 2021 W. Armentrout, K. O'Neil, D. Frayer, L. Morgan, A. Bonsall, J. Bublitz, N. Butterfield, T. Ghosh, B. Gregory, F. Lockman, R. Lynch, A. Minter, F. Paganelli, C. Romero, P. Salas, and A. Seymour. Argus144: High resolution molecular gas mapping with a 144-element 3mm Array on the Green Bank Telescope. In *American Astronomical Society Meeting Abstracts*, volume 53 of *American Astronomical Society Meeting Abstracts*, page 542.03, January 2021.
- 2020 J. Skipper, L. Morgan, K. Bandura, J. Di Francesco, J. Lockman, W. Armentrout, D. Frayer, L. Jensen, K. O'Neil, S. White, L. Anderson, E. D. Araya, S. Cazzoli, E. Rosolowsky, S. Sadavoy, M. Sahlen, and J. Tobin. A Beam-Forming Receiver for the GBT at 23 GHz. In *American Astronomical Society Meeting Abstracts #235*, volume 235 of *American Astronomical Society Meeting Abstracts*, page 451.04, January 2020.
- 2020 K. O'Neil, R. Lynch, W. Armentrout, A. Bonsall, N. Butterfield, D. Frayer, F. Ghigo, T. Ghosh, F. Lockman, R. Maddalena, A. Minter, L. Morgan, C. Romero, P. Salas, C. Salter, A. Seymour, and J. Skipper. Advanced Capabilities for the Green Bank Telescope. In *American Astronomical Society Meeting Abstracts #235*, volume 235 of *American Astronomical Society Meeting Abstracts*, page 215.02, January 2020.
- 2020 A. Minter, K. O'Neil, D. Frayer, R. Lynch, T. Ghosh, L. Morgan, F. Ghigo, A. Seymour, W. Armentrout, and N. Butterfield. The Advanced Green Bank Telescope. In *American Astronomical Society Meeting Abstracts #236*, volume 236 of *American Astronomical Society Meeting Abstracts*, page 243.04, June 2020.
- 2020 D. Frayer, F. Lockman, W. Armentrout, N. Butterfield, R. Maddalena, A. Minter, L. Morgan, K. O'Neil, and P. Salas. Argus144: Wide-Field, High Resolution 3mm Molecular Imaging of Star-Forming Regions. In *American Astronomical Society Meeting Abstracts #235*, volume 235 of *American Astronomical Society Meeting Abstracts*, page 272.17, January 2020.

- 2020 W. Armentrout, A. Minter, F. Lockman, K. O'Neil, R. Lynch, A. Bonsall, N. Butterfield, D. Frayer, F. Ghigo, T. Ghosh, R. Maddalena, P. Salas, A. Seymour, and J. Skipper. The Green Bank Array — Science from Ten ngVLA Antennas at the GBT. In *American Astronomical Society Meeting Abstracts #235*, volume 235 of *American Astronomical Society Meeting Abstracts*, page 364.23, January 2020.
- 2020 W. Armentrout, D. Frayer, F. Lockman, L. Morgan, N. Butterfield, R. Maddalena, A. Minter, K. O'Neil, and P. Salas. Argus144: High resolution molecular gas mapping with a 144-element W-Band Array on the Green Bank Telescope. In *American Astronomical Society Meeting Abstracts #236*, volume 236 of *American Astronomical Society Meeting Abstracts*, page 142.02, June 2020.
- 2019 Karen L. O'Neil, Will Armentrout, Amber Bonsall, Natalie Butterfield, David T. Frayer, Frank D. Ghigo, Tapasi Ghosh, Felix J. Lockman, Ryan S. Lynch, Ronald J. Maddalena, Anthony Howard Minter, Larry Morgan, Christopher J. Salter, Andrew Seymour, Joy Nicole Skipper, and Sue Ann Heatherly. The Role of Observatories in Professional Astronomy Training. In *American Astronomical Society Meeting Abstracts #234*, volume 234 of *American Astronomical Society Meeting Abstracts*, page 104.01, June 2019.
- 2019 Karen L. O'Neil, Will Armentrout, Amber Bonsall, Natalie Butterfield, David T. Frayer, Frank D. Ghigo, Tapasi Ghosh, Felix J. Lockman, Ryan S. Lynch, Ronald J. Maddalena, Anthony Howard Minter, Larry Morgan, Christopher J. Salter, Andrew Seymour, and Joy Nicole Skipper. The 100m Green Bank Telescope. In *American Astronomical Society Meeting Abstracts #234*, volume 234 of *American Astronomical Society Meeting Abstracts*, page 103.05, June 2019.
- 2019 Karen O'Neil, Felix J. Lockman, Filippo D'Ammando, Will Armentrout, Shami Chatterjee, Jim Cordes, Martin Cordiner, David Frayer, Luke Zoltan Kelley, Natalia Lewandowska, Duncan Lorimer, Brian Mason, Maura McLaughlin, Tony Mroczkowski, Hooshang Nayyeri, Eric Perlman, Bindu Rani, Dominik Riechers, Martin Sahlen, Ian Stephens, Patrick Taylor, and Francisco Villaescusa-Navarro. The Case for a Fully Funded Green Bank Telescope. In *Bulletin of the American Astronomical Society*, volume 51, page 70, September 2019.
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