Dr. Adam G. Ginsburg
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Website: `www.adamgginsburg.com`

## Educational Background:

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|---|---|
| May 9, 2013 PhD Astrophysics | University of Colorado, Boulder |
| 2009 M.S. Astrophysics | University of Colorado, Boulder |
| 2006 B.S. Astrophysics | Rice University |

## Professional Employment:

| | | |
|---|---|---|
| 2016 - | Jansky Fellow | National Radio Astronomy Observatory<br>Socorro, New Mexico |
| 2013 - 2016 | ESO Fellow | European Southern Observatory<br>Garching, Germany |
| 2007 - 2013 | Graduate Research Assistant | Center for Astrophysics and Space Astronomy,<br>University of Colorado, Boulder, CO |
| 2010 - 2013 | Instructor | Department of Astrophysical and Planetary Sciences,<br>University of Colorado, Boulder, CO |
| 2007 - 2011 | Teaching Assistant | Department of Astrophysical and Planetary Sciences,<br>University of Colorado, Boulder, CO |
| 2007 | Research Assistant | Department of Physics and Astronomy,<br>University of Denver, Denver, CO |

## Areas of Research:

- The astrophysics of massive star formation and the processes governing the stellar initial mass function.
- The physical properties of the molecular interstellar medium, supersonic turbulence, and formaldehyde and other molecules as probes of local physical conditions.
- Single-dish heterodyne and continuum millimeter observing, radio single-dish and synthesis array imaging, and optical and near infrared imaging and spectroscopy.
- The development of software tools for the analysis and visualization of diffuse and extended emission, spectral data cubes, and large astronomical data sets.

## Honors/Awards:

2016 National Radio Astronomy Observatory Jansky Fellowship
2013 European Southern Observatory Garching Postdoctoral Fellowship
2011 University of Colorado Chance Irick Cooke Fellowship for Excellence in Research
2010 NRAO Green Bank Student Observing Support ($35,000)
2010 NSF GRFP Honorable Mention
2009 NSF GRFP Honorable Mention
2008 NSF GRFP Honorable Mention
2008 NRAO Photo Contest First Prize ($1000)
2008 University of Colorado Astrophysical and Planetary Sciences Excellence in Teaching award
2006 National Radio Astronomy Observatory - summer REU with David Meier

## Research Advising:

| Date | Program | Student | Project |
|---|---|---|---|
| Summer 2018 | Google Summer of Code | Sushobhana Patra | Improving astropy-regions: CRTF and FITS region formats |
| Summer 2018 | NRAO REU Student | Connor McClellan | The YSO population of W51 at high resolution |
| Summer 2018 | NRAO REU Student | Justin Otter | Disks and YSOs in Orion at high angular resolution |
| 2017-2018 | PhD Student | Natalie Butterfield | Cloud Kinematics and Geometry in the Central Molecular Zone |
| Summer 2017 | NRAO Summer Student | Virginie Montes | The ionized jet IRAS 16562-3959 |
| Summer 2017 | NRAO REU Student | Terry Melo | A symmetric ionized and molecular jet in W51 |
| Fall 2013 - Fall 2016 | Ludwig-Maximilian University / ESO PhD Thesis Student | Anna Faye McLeod | FUSION: Comparison of hydrodynamic simulations and observations in nearby high mass star forming regions |
| Summer 2015 | ESO Summer Student | Dinos Kousidis | Merging `astropy` tools into `pyspeckit` |
| Summer 2014 | Google Summer of Code | Simon Liedtke | New tools for `astroquery`: XMatch, SkyView, Atomic Line List |
| Summer 2013 | Google Summer of Code | Madhura Parikh | A coherent API for `astroquery`, a python web database query toolkit |

## Teaching:

| Date | Course |
|---|---|
| Spring 2013 | Instructor of ASTR 2600: Introduction to Programming for Astronomers (in IDL) |
| Fall 2012 | Instructor of ASTR 2600: Introduction to Programming for Astronomers (in IDL) |
| Summer 2010 | Co-Instructor of ASTR 1020: Stars and Galaxies |
| Fall 2011 | Co-Instructor of ASTR 6000: Graduate Seminar on the Interstellar Medium |
| Fall 2011 | Teaching Assistant for ASTR 3510: Astronomical Observing (imaging) |
| Spring 2010 | Teaching Assistant for ASTR 3520: Astronomical Observing (spectroscopy) |
| Fall 2009 | Teaching Assistant for ASTR 3510: Astronomical Observing (imaging) |
| Fall 2008 | Teaching Assistant for ASTR 3520: Astronomical Observing (spectroscopy) |
| Spring 2008 | Teaching Assistant for ASTR 3510: Astronomical Observing (imaging) |
| Fall 2007 | Teaching Assistant for ASTR 3520: Astronomical Observing (spectroscopy) |

## Selected Conferences and Workshops attended:

| Date | Meeting Name | Role | Talk or Poster Title |
|---|---|---|---|
| 2018 | Tracing the Flow | Invited Talk | Review and recent results in high-mass cluster formation |
| 2018 | Olympian Symposium: Gas and Stars from milli- to megaparsecs | Talk | Widespread star formation throughout the Galactic center cloud Sgr B2 |
| 2018 | The Early Phase of Star Formation 2018 | Talk | Star Formation Laws Evaluated at our Galaxy's Highest Density |
| 2018 | Oxford Molecular Cloud Workshop | Invited Talk | Cluster formation from GMCs |
| 2017 | Piercing the Galactic Darkness | Invited Talk | Star Formation in the Central Molecular Zone |
| 2017 | Behind the Curtain of Dust II | Talk | High-mass Star Formation in the Galaxy |
| 2017 | Multi-Scale Star Formation | Talk | The effects and importance of feedback on high-mass star formation within massive clusters |
| 2016 | The Local Truth: Star-Formation and Feedback in the SOFIA Era | Talk | Feedback and Accretion around proto-O-stars |
| 2016 | Half a decade of ALMA: Cosmic Dawns Transformed | Talk | Feedback and Accretion Toward Proto-O-Stars at ALMA's Highest Resolution |
| 2016 | Sexten: The Role of Feedback in Star Cluster Formation and Evolution | Talk | The ineffectiveness of feedback in a nearby forming massive cluster, W51 |
| 2016 | The Early Phase of Star Formation 2016 | Talk | The effects and extent of feedback on dense prestellar gas near proto-OB stars |
| 2016 | From Stars to Massive Stars | Invited Talk | High-mass Stars and Cores in Massive Protoclusters |
| 2016 | APEX Ringberg 2016 | Talk | Dense gas in the Central Molecular Zone is warm and turbulent |
| 2015 | The 6th Zermatt ISM Symposium | Talk | Dense gas in the Central Molecular Zone is warm and heated by turbulence |
| 2015 | Astropy Lorentz Center Workshop (5 days) | Talks & unconferences | radio-astro-tools, astroquery, and spectral-cube |
| 2015 | University of Munich Filaments Workshop (3 days) | Talk | W51: The most active star-forming complex in the Galaxy |
| 2015 | Soul of High Mass Star Formation, Chile | Talk | The Density Structure of the W51 GMC |
| 2014 | ALMA Arc Node Retreat | Talk | ALMA's first look at the extended Sgr B2 Cloud |
| 2014 | Sexten Workshop: The Formation of Globular Clusters | Talk | The Galactic population of young massive clusters |
| 2014 | Sexten Workshop: The assembly of massive clusters | Talk | The density of W51 and its protoclusters |
| 2014 | Early Phase of Star Formation (EPoS 6) | Talk | The density structure of The Brick |
| 2013 | .Astronomy 5 | Talk | Astroquery: A toolkit for remote data access in python |
| 2012 | Labyrinth of Star Formation | Talk | Surveying Pre-Stellar Gas with the BGPS (with an emphasis on what we don't see) |

## Selected Institute Talks:

| | | |
|---|---|---|
| • UNM Astronomy Seminar | November, 2017 | High-mass Star and Cluster Formation in the Galaxy |
| • MSU Colloquium | October, 2017 | High-mass Star and Cluster Formation in the Galaxy |
| • UT Austin Colloquium | March, 2017 | High-mass Star and Cluster Formation in the Galaxy |
| • NRAO Socorro Colloquium | November, 2016 | High-mass Star Formation in the Galaxy's Densest Environments |
| • Herzberg Institute Colloquium | November, 2016 | High-mass Star Formation in the Galaxy's Densest Environments |
| • University of Virigina / NRAO Joint Colloquium | November, 2016 | High-mass Star Formation in the Galaxy's Densest Environments |
| • ESO Lunch Talk | 2013 | Examining Massive Cluster Formation with H2CO in W51 |
| • MPIfR Lunch Talk | 2013 | Surveying Star Formation in the Galactic Plane |
| • CfA Lunch Talk | 2013 | Surveying Star Formation in the Galactic Plane |

## Software:

I am an active developer of a large variety of astronomical python software tools and a contributor to `astropy` and its affiliates. My github profile (`github.com/keflavich`) contains a complete list of projects. Below is a selection of my most popular packages:

- `astroquery` (`https://astroquery.readthedocs.org`): a toolkit for querying internet-hosted astronomical databases
- `pyspeckit` (`https://pyspeckit.bitbucket.org`): a software suite for visualizing and analyzing spectral line and spectral cube data
- `spectral-cube` (`https://spectral-cube.rtfd.org`): a library for the manipulation of radio spectral cube data
- `pyradex` (`https://github.com/keflavich/pyradex`): an object-oriented frontend to the popular RADEX radiative transfer code and its peers
- `image-registration` (`https://github.com/keflavich/image_registration`): a package designed to determine and correct the offsets between images containing only diffuse emission
- `sdpy` (`https://github.com/keflavich/sdpy`): "Single-Dish python", a package to support single dish heterodyne data reduction and build data pipelines

## Service:

- Organizer of NRAO's Wednesday Lunch Talk series, 2017-
- Organizer of the "Python Coffee and Tutorial" series at ESO, 2014-2016
- Referee for the following journals:
  - *Science*
  - *Nature*
  - *Astrophysical Journal*
  - *Astronomy & Astrophysics*
  - *Monthly Notices of the Royal Astronomical Society*
  - *Revista Mexicana de Astronomía y Astrofísica*
- Served on the VLA TAC
- Served on the SOFIA TAC
- Served on the Arizona Radio Observatory TAC
- Panel chair for a NASA grant review panel
- ESO ALMA Fellow Duties as part of the European ALMA Regional Center. Primary duties include software development, maintenance of the Quality Assurance Packager software, and regression testing

- Member of the `astropy` collaboration, serving as lead maintainer of `astroquery` and member of the Spectroscopy Coordinating Committee
- Member of the `montage` (`montage.ipac.caltech.edu`) Image Mosaic Engine users group
- Member of the Next-Generation VLA (NGVLA) high mass star formation working group
- Member of the SKA Galactic Science working group

## Conferences and Workshops hosted:

| Date | Meeting Name | Role |
|---|---|---|
| 2016 | Lorentz Center workshop "Apples-to-Apples": Comparing simulations & observations | Co-organizer |
| 2015 | ESO Central Molecular Zone workshop (2 days) | Organizer |
| 2015 | Florence Simulation-Observation Workshop (5 days) | Organizer |
| 2014 | Workshop on the APEX CMZ 1 mm survey at MPIfR Bonn (1 day) | Organizer |
| 2014 | ALMA Postdoc Symposium, Tokyo | Co-organizer |

## Additional Training:

- ESO Fellows Development Program: MBTI (October 8, 2015)
- ESO Fellows Development Program: People Skills (June 18, 2015)
- ESO Fellows Development Program: Networking (February 17, 2015)
- ESO Fellows Development Program: Presentation Skills (July 3, 2014)
- ESO Fellows Development Program: Scientific Writing (March 4, 2014)
- ESO Fellows Development Program: Project Management (January 28, 2014)

## Selected telescope time allocations as PI:

| Telescope | Title | Time | Status |
|---|---|---|---|
| **ALMA** 2017 | Cycle 6: 2018.1.00057.S: Probing low-mass star formation in the CMZ in Sgr B2 Deep South | 14 hours | re-Approved |
| **GBT** 2017 | GBT18A-014: MUSTANG Galactic Plane survey pilot: Protoclusters & Massive Stars | 31 hours | Approved, partly Observed |
| **VLA** 2017 | VLA18A-229: Characterizing high-mass protostars in the whole of Sgr B2 | 36 hours | Observed |
| **ALMA** 2017 | Cycle 5: 2017.1.01335.L (co-PI): ALMA-IMF: ALMA transforms our view of the origin of stellar masses | 64 hours | Approved |
| **ALMA** 2017 | Cycle 5: 2017.1.00293.S: Characterizing the accretion structures around the HMYSOs in W51 | 8 hours | Approved |
| **ALMA** 2017 | Cycle 5: 2017.1.00114.S: Probing low-mass star formation in the CMZ in Sgr B2 Deep South | 14 hours | Approved, partly Observed |
| **ALMA** 2017 | Cycle 5: 2017.1.00008.S: The core mass function and its evolution in an extreme protocluster | 10 hours | Approved, partly Observed |
| **ALMA** 2016 | Cycle 4: 2016.1.00620.S: The core mass function and its evolution in an extreme protocluster | 10 hours | Approved, partly Observed |
| **ALMA** 2016 | Cycle 4: 2016.1.00550.S: (How) do very massive stars form in our Galaxy? | 7.5 hours | Observed |
| **ALMA** 2015 | Cycle 3: 2015.1.00262.S: Digging for rusty bullets at an explosion site | 1.9 hours | Observed |
| **ATCA** 2015 | C3045: Geometry of clouds and HII regions in the CMZ using H2CO | 84 hours | Published 2015A&A...584L...7G |
| **ALMA** 2014 | Cycle 2: 2013.1.00308.S: Gas temperature and kinematics as key inputs for star formation theory: Cores and turbulence in the massive protocluster W51 | 2.4 hours | Published: 2017ApJ...842...92G |
| **ALMA** 2014 | Cycle 2: 2013.1.00269.S: Sgr B2 - The Proving Ground for Star Formation Theories | 6 hours | Published: 2018ApJ...853..171G |
| **APEX** 2014 | H2CO Thermometry of the CMZ to understand its low star formation rate | 250 hours | Published: 2016A&A...586A..50G |
| **EVLA** 2013 | 13A/064: Massive stars and ionized gas in the W51 complex | 13 hours, 4 configs | Published: 2016A&A...595A..27G |
| **Arecibo** 2012 | A2854: Density Map of the W51 Giant Molecular Cloud complex | 13 hours | Published: 2015A&A...573A.106G |
| **GBT** 2010 | GBT10B-019: Densitometry of young star-forming complexes throughout the Galaxy | 120 hours | Published: 2013ApJ...779...50G |
| **Arecibo** 2010 | A2584: Densitometry of young star-forming complexes throughout the Galaxy | 60 hours | Published: 2013ApJ...779...50G |
| **GBT** 2009 | GBT09C-049: Measuring the dense gas mass fraction with H2CO absorption | 4 hours | Published: 2011ApJ...736..149G |

## Refereed Publications as of October 7, 2018 [12 first author, 85 total]:

[1] McLeod, A. F., Dale, J. E., Evans, C. J., **Ginsburg**, A., Kruijssen, J. M. D., Pellegrini, E. W., Ramsay, S. K., & Testi, L., *Feedback from massive stars at low metallicities: MUSE observations of N44 and N180 in the Large Magellanic Cloud*, October, 2018, ArXiv e-prints, arXiv:1810.01433

[2] Astropy Collaboration, Price-Whelan, A. M., Sipőcz, B. M., Günther, H. M., Lim, P. L., Crawford, S. M., Conseil, S., Shupe, D. L., Craig, M. W., Dencheva, N., **Ginsburg**, A., VanderPlas, J. T., Bradley, L. D., Pérez-Suárez, D., de Val-Borro, M., Aldcroft, T. L., Cruz, K. L., Robitaille, T. P., Tollerud, E. J., Ardelean, C., Babej, T., Bach, Y. P., Bachetti, M., Bakanov, A. V., Bamford, S. P., Barentsen, G., Barmby, P., Baumbach, A., Berry, K. L., Biscani, F., Boquien, M., Bostroem, K. A., Bouma, L. G., Brammer, G. B., Bray, E. M., Breytenbach, H., Buddelmeijer, H., Burke, D. J., Calderone, G., Cano Rodríguez, J. L., Cara, M., Cardoso, J. V. M., Cheedella, S., Copin, Y., Corrales, L., Crichton, D., D'Avella, D., Deil, C., Depagne, É., Dietrich, J. P., Donath, A., Droettboom, M., Earl, N., Erben, T., Fabbro, S., Ferreira, L. A., Finethy, T., Fox, R. T., Garrison, L. H., Gibbons, S. L. J., Goldstein, D. A., Gommers, R., Greco, J. P., Greenfield, P., Groener, A. M., Grollier, F., Hagen, A., Hirst, P., Homeier, D., Horton, A. J., Hosseinzadeh, G., Hu, L., Hunkeler, J. S., Ivezić, Ž., Jain, A., Jenness, T., Kanarek, G., Kendrew, S., Kern, N. S., Kerzendorf, W. E., Khvalko, A., King, J., Kirkby, D., Kulkarni, A. M., Kumar, A., Lee, A., Lenz, D., Littlefair, S. P., Ma, Z., Macleod, D. M., Mastropietro, M., McCully, C., Montagnac, S., Morris, B. M., Mueller, M., Mumford, S. J., Muna, D., Murphy, N. A., Nelson, S., Nguyen, G. H., Ninan, J. P., Nöthe, M., Ogaz, S., Oh, S., Parejko, J. K., Parley, N., Pascual, S., Patil, R., Patil, A. A., Plunkett, A. L., Prochaska, J. X., Rastogi, T., Reddy Janga, V., Sabater, J., Sakurikar, P., Seifert, M., Sherbert, L. E., Sherwood-Taylor, H., Shih, A. Y., Sick, J., Silbiger, M. T., Singanamalla, S., Singer, L. P., Sladen, P. H., Sooley, K. A., Sornarajah, S., Streicher, O., Teuben, P., Thomas, S. W., Tremblay, G. R., Turner, J. E. H., Terrón, V., van Kerkwijk, M. H., de la Vega, A., Watkins, L. L., Weaver, B. A., Whitmore, J. B., Woillez, J., Zabalza, V., & Astropy Contributors, *The Astropy Project: Building an Open-science Project and Status of the v2.0 Core Package*, September, 2018, AJ, 156, 123

[3] **Ginsburg**, A. & Kruijssen, J. M. D., *A High Cluster Formation Efficiency in the Sagittarius B2 Complex*, September, 2018, ApJ, 864, L17

[4] How-Huan Chen, H., Pineda, J. E., Goodman, A. A., Burkert, A., Offner, S. S. R., Friesen, R. K., Myers, P. C., Alves, F., Arce, H. G., Caselli, P., Chacon-Tanarro, A., Chun-Yuan Chen, M., Di Francesco, J., **Ginsburg**, A., Keown, J., Kirk, H., Martin, P. G., Matzner, C., Punanova, A., Redaelli, E., Rosolowsky, E., Scibelli, S., Seo, Y. M., Shirley, Y., & Singh, A., *Droplets I: Pressure-Dominated Sub-0.1 pc Coherent Structures in L1688 and B18*, September, 2018, ArXiv e-prints, arXiv:1809.10223

[5] Mills, E. A. C., **Ginsburg**, A., Immer, K., Barnes, J. M., Wiesenfeld, L., Faure, A., Morris, M. R., & Requena-Torres, M. A., *The Dense Gas Fraction in Galactic Center Clouds*, September, 2018, ArXiv e-prints

[6] Liu, H. B., Chen, H.-R. V., Román-Zúñiga, C. G., Galván-Madrid, R., **Ginsburg**, A., Ho, P. T. P., Minh, Y. C., Jiménez-Serra, I., Testi, L., & Zhang, Q., *Investigating fragmentation of gas structures in OB cluster-forming molecular clump G33.92+0.11 with 1000 AU resolution observations of ALMA*, August, 2018, ArXiv e-prints, arXiv:1808.07702

[7] Monsch, K., Pineda, J. E., Liu, H. B., Zucker, C., How-Huan Chen, H., Pattle, K., Offner, S. S. R., Di Francesco, J., **Ginsburg**, A., Ercolano, B., Arce, H. G., Friesen, R., Kirk, H., Caselli, P., & Goodman, A. A., *Dense Gas Kinematics and a Narrow Filament in the Orion A OMC1 Region Using $NH_3$*, July, 2018, ApJ, 861, 77

[8] **Ginsburg**, A., Bally, J., Goddi, C., Plambeck, R., & Wright, M., *A Keplerian Disk around Orion SrCI, a 15 Msun YSO*, June, 2018, ApJ, 860, 119

[9] Kong, S., Arce, H. G., Feddersen, J. R., Carpenter, J. M., Nakamura, F., Shimajiri, Y., Isella, A., Ossenkopf-Okada, V., Sargent, A. I., Sánchez-Monge, Á., Suri, S. T., Kauffmann, J., Pillai, T., Pineda, J. E., Koda, J., Bally, J., Lis, D. C., Padoan, P., Klessen, R., Mairs, S., Goodman, A., Goldsmith, P., McGehee, P., Schilke, P., Teuben, P. J., José Maureira, M., Hara, C., **Ginsburg**, A., Burkhart, B., Smith, R. J., Schmiedeke, A., Pineda, J. L., Ishii, S., Sasaki, K., Kawabe, R., Urasawa, Y., Oyamada, S., & Tanabe, Y., *The CARMA-NRO Orion Survey*, June, 2018, ApJS, 236, 25

[10] Goddi, C., **Ginsburg**, A., Maud, L., Zhang, Q., & Zapata, L., *Accretion and outflow structures within 1000 AU from high-mass protostars with ALMA longest baselines*, May, 2018, ArXiv e-prints, arXiv:1805.05364

[11] Youngblood, A., France, K., **Ginsburg**, A., Hoadley, K., & Bally, J., *The Orion Fingers: $H_2$ Temperatures and Excitation in an Explosive Outflow*, April, 2018, ApJ, 857, 7

[12] Smith, N., **Ginsburg**, A., & Bally, J., *A disrupted molecular torus around Eta Carinae as seen in 12CO with ALMA*, March, 2018, MNRAS, 474, 4988

[13] **Ginsburg**, A., Bally, J., Barnes, A., Bastian, N., Battersby, C., Beuther, H., Brogan, C., Contreras, Y., Corby, J., Darling, J., De Pree, C., Galván-Madrid, R., Garay, G., Henshaw, J., Hunter, T., Kruijssen, J. M. D., Longmore, S., Lu, X., Meng, F., Mills, E. A. C., Ott, J., Pineda, J. E., Sánchez-Monge, Á., Schilke, P., Schmiedeke, A., Walker, D., & Wilner, D., *Distributed Star Formation throughout the Galactic Center Cloud Sgr B2*, February, 2018, ApJ, 853, 171

[14] Walker, D. L., Longmore, S. N., Zhang, Q., Battersby, C., Keto, E., Kruijssen, J. M. D., **Ginsburg**, A., Lu, X., Henshaw, J. D., Kauffmann, J., Pillai, T., Mills, E. A. C., Walsh, A. J., Bally, J., Ho, L. C., Immer, K., & Johnston, K. G., *Star formation in a high-pressure environment: An SMA view of the Galactic centre dust ridge*, February, 2018, MNRAS, 474, 2373

[15] Sánchez-Monge, Á., Schilke, P., **Ginsburg**, A., Cesaroni, R., & Schmiedeke, A., *STATCONT: A statistical continuum level determination method for line- rich sources*, January, 2018, A&A, 609, A101

[16] Redaelli, E., Alves, F. O., Caselli, P., Pineda, J. E., Friesen, R. K., Chacón-Tanarro, A., Matzner, C. D., **Ginsburg**, A., Rosolowsky, E., Keown, J., Offner, S. S. R., Francesco, J. D., Kirk, H., Myers, P. C., Hacar, A., Cimatti, A., Chen, H. H., Chen, M. C., Seo, Y. M., & Lee, K. I., *The Green Bank Ammonia Survey: Unveiling the Dynamics of the Barnard 59 star-forming Clump*, December, 2017, ApJ, 850, 202

[17] Keown, J., Di Francesco, J., Kirk, H., Friesen, R. K., Pineda, J. E., Rosolowsky, E., **Ginsburg**, A., Offner, S. S. R., Caselli, P., Alves, F., Chacón-Tanarro, A., Punanova, A., Redaelli, E., Seo, Y. M., Matzner, C. D., Chun-Yuan Chen, M., Goodman, A. A., Chen, H.-H., Shirley, Y., Singh, A., Arce, H. G., Martin, P., & Myers, P. C., *The Green Bank Ammonia Survey: Observations of Hierarchical Dense Gas Structures in Cepheus-L1251*, November, 2017, ApJ, 850, 3

[18] 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., *The Survey of Water and Ammonia in the Galactic Center (SWAG): Molecular Cloud Evolution in the Central Molecular Zone*, November, 2017, ApJ, 850, 77

[19] Kirk, H., Friesen, R. K., Pineda, J. E., Rosolowsky, E., Offner, S. S. R., Matzner, C. D., Myers, P. C., Di Francesco, J., Caselli, P., Alves, F. O., Chacón-Tanarro, A., Chen, H.-H., Chun-Yuan Chen, M., Keown, J., Punanova, A., Seo, Y. M., Shirley, Y., **Ginsburg**, A., Hall, C., Singh, A., Arce, H. G., Goodman, A. A., Martin, P., & Redaelli, E., *The Green Bank Ammonia Survey: Dense Cores Under Pressure in Orion A*, September, 2017, ApJ, 846, 144

[20] Friesen, R. K., Pineda, J. E., co-PIs, Rosolowsky, E., Alves, F., Chacón-Tanarro, A., How-Huan Chen, H., Chun-Yuan Chen, M., Di Francesco, J., Keown, J., Kirk, H., Punanova, A., Seo, Y., Shirley, Y., **Ginsburg**, A., Hall, C., Offner, S. S. R., Singh, A., Arce, H. G., Caselli, P., Goodman, A. A., Martin, P. G., Matzner, C., Myers, P. C., Redaelli, E., & The GAS Collaboration, *The Green Bank Ammonia Survey: First Results of $NH_3$ Mapping of the Gould Belt*, July, 2017, ApJ, 843, 63

[21] Sánchez-Monge, Á., Schilke, P., Schmiedeke, A., **Ginsburg**, A., Cesaroni, R., Lis, D. C., Qin, S.-L., Müller, H. S. P., Bergin, E., Comito, C., & Möller, T., *The physical and chemical structure of Sagittarius B2. II. Continuum millimeter emission of Sgr B2(M) and Sgr B2(N) with ALMA*, July, 2017, A&A, 604, A6

[22] **Ginsburg**, A., Goddi, C., Kruijssen, J. M. D., Bally, J., Smith, R., Galván-Madrid, R., Mills, E. A. C., Wang, K., Dale, J. E., Darling, J., Rosolowsky, E., Loughnane, R., Testi, L., & Bastian, N., *Thermal Feedback in the High-mass Star- and Cluster-forming Region W51*, June, 2017, ApJ, 842, 92

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