Dr. Adam G. Ginsburg
Assistant Professor, University of Florida
Bryant Space Science Center, 1772 Stadium Road, Gainesville, FL 32611
E-mail: adamginsburg@ufl.edu / adam.g.ginsburg@gmail.com
ORCID: 0000-0001-6431-9633
Website: www.adamgginsburg.com

Educational Background:

2013 PhD Astrophysics	University of Colorado, Boulder
2009 M.S. Astrophysics	University of Colorado, Boulder
2006 B.S. Astrophysics	Rice University

Professional Employment:

2019 -	Assistant Professor	University of Florida Gainesville, Florida
2016 - 2019	Jansky Fellow	National Radio Astronomy Observatory Socorro, New Mexico
2013 - 2016	ESO Fellow	European Southern Observatory Garching, Germany
2007 - 2013	Graduate Research Assistant	Center for Astrophysics and Space Astronomy, University of Colorado, Boulder, CO
2010 - 2013	Instructor	Department of Astrophysical and Planetary Sciences, University of Colorado, Boulder, CO
2007 - 2011	Teaching Assistant	Department of Astrophysical and Planetary Sciences, University of Colorado, Boulder, CO
2007	Research Assistant	Department of Physics and Astronomy, 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.

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
2013 - 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 (2015-):

Date	Meeting Name	Role	Talk or Poster Title
2019	StarFormMapper final conference	Invited Talk	Environmental effects within and around forming high-mass clusters
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
2017	AstroWin	Invited Talk	High-mass star formation in the Galaxy's densest environments: The effects and importance of feedback
2017	The origin of galaxies, stars, and planets in the era of ALMA	Invited Talk	High-mass star formation and feedback in massive protoclusters
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

Selected Institute Talks:

• UConn Colloquium	November, 2018	High-mass Star and Cluster Formation: Star formation changes with environment
• 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

Service:

- Organizer of NRAO's Wednesday Lunch Talk series, 2016-2019
- 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*
  - *Proceedings of the Astronomical Society of Japan*
  - *Revista Mexicana de Astronomía y Astrofísica*
- Served on the NRAO (VLA, GBT, VLBA) 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 (2015-):

Telescope	Title	Time	Status
VLA 2018	VLA/19A-254: Disks and Outflows around O-type stars in W51	15 hours	re-Approved
ALMA 2018	Cycle 6: 2018.1.00057.S: Probing low-mass star formation in the CMZ in Sgr B2 Deep South	14 hours	re-Approved
GBT 2018	GBT18A-014: MUSTANG Galactic Plane survey pilot: Protoclusters & Massive Stars	31 hours	Approved, partly Observed
VLA 2018	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
GBT 2016	GBT17A-195: MUSTANG Galactic Plane survey pilot: Protoclusters & Massive Stars	31 hours	Approved, observed as GBT18A-014
VLA 2016	VLA16B-202: Disks and Outflows around O-type stars in W51	16 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
GBT 2015	GBT/15B-129: Measuring the gas density along the CMZ dust ridge	13.5 hours	Approved, never observed
ATCA 2015	C3045: Geometry of clouds and HII regions in the CMZ using H2CO	84 hours	Published 2015A&A...584L...7G

Selected telescope time allocations as PI (2009 - 2014):

Telescope	Title	Time	Status
VLA 2014	VLA15A-164: Studying turbulence through the atomic-to-molecular transition	3.3 hours	Observed
GBT 2014	GBT14A-329: MUSTANG Galactic Plane survey: HCHIIs in the brightest massive proto-clusters (resubmitted as GBT17A-195)	14 hours	Approved, observed as GBT18A-014
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
LOFAR 2014	Cycle 2: LC2_006: A search for p-H2CO, a potential EoR contaminant, toward the Galactic Center, W43, W44, W49, and M82.	8 hours	Observed
APEX 2014	H2CO Thermometry of the CMZ to understand its low star formation rate	250 hours	Published: 2016A&A...586A..50G
GBT 2014	GBT14A-110/GBT12B-221: Density Measurements in G0.253+0.016: Pilot program for CMZ H2CO densitometry	18 hours	Observed
KPNO 2013	2013A-0399: Star formation in the Central Molecular Zone: Massive Outflows in Sgr C	6 hours	Observed
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 September 29, 2020
17 first author, 104 total, with 6176 citations:

[1] Battersby, C. et al., *CMZoom: Survey Overview and First Data Release*, August, 2020, ApJS, 249, 35, *1 Citation(s)*

[2] Choudhury, S. et al., *Ubiquitous NH_3 supersonic component in L1688 coherent cores*, August, 2020, A&A, 640, L6, *0 Citation(s)*

[3] Rivera-Soto, R., Galván-Madrid, R., **Ginsburg**, A., & Kurtz, S., *Recombination Lines and Molecular Gas from Hypercompact HII regions in W51 A*, August, 2020, ApJ, 899, 94, *0 Citation(s)*

[4] Henshaw, J. D. et al., *Ubiquitous velocity fluctuations throughout the molecular interstellar medium*, July, 2020, Nature Astronomy, *5 Citation(s)*

[5] **Ginsburg**, A. et al., *The MUSTANG Galactic Plane Survey (MGPS90) Pilot*, June, 2020, ApJS, 248, 24, *1 Citation(s)*

[6] Lu, X. et al., *ALMA Observations of Massive Clouds in the Central Molecular Zone: Jeans Fragmentation and Cluster Formation*, May, 2020, ApJ, 894, L14, *0 Citation(s)*

[7] Rosen, A. L., Offner, S. S. R., Sadavoy, S. I., Bhandare, A., Vázquez-Semadeni, E., & **Ginsburg**, A., *Zooming in on Individual Star Formation: Low- and High-Mass Stars*, May, 2020, SSR, 216, 62, *3 Citation(s)*

[8] Chen, C.-Y. et al., *Relative alignment between dense molecular cores and ambient magnetic field: the synergy of numerical models and observations*, March, 2020, MNRAS, 494, 1971, *1 Citation(s)*

[9] Bally, J., **Ginsburg**, A., Forbrich, J., & Vargas-González, J., *The Orion Protostellar Explosion and Runaway Stars Revisited: Stellar Masses, Disk Retention, and an Outflow from the BecklinNeugebauer Object*, February, 2020, ApJ, 889, 178, *2 Citation(s)*

[10] Butterfield, N. O. et al., *6.7 GHz CH_3OH Absorption toward the N3 Galactic Center Point Source*, February, 2020, ApJ, 889, 174, *0 Citation(s)*

[11] Wright, M. et al., *Observations of the Orion Source I Disk and Outflow Interface*, February, 2020, ApJ, 889, 155, *2 Citation(s)*

[12] **Ginsburg**, A. & Goddi, C., *First detection of CS masers around a high-mass young stellar object, W51 e2e*, November, 2019, AJ, 158, 208, *0 Citation(s)*

[13] McLeod, A. F. et al., *Feedback from massive stars at low metallicities: MUSE observations of N44 and N180 in the Large Magellanic Cloud*, July, 2019, MNRAS, 486, 5263, *10 Citation(s)*

[14] How-Huan Chen, H. et al., *Droplets I: Pressure-Dominated Sub-0.1 pc Coherent Structures in L1688 and B18*, June, 2019, ApJ, 877, 93, *20 Citation(s)*

[15] **Ginsburg**, A., Mills, E. A. C., Battersby, C. D., Longmore, S. N., & Kruijssen, J. M. D., *Astro2020 Science White Paper: What is the lifecycle of gas and stars in galaxy centers?*, May, 2019, BAAS, 51, 220, *0 Citation(s)*

[16] Colombo, D. et al., *The integrated properties of the molecular clouds from the JCMT CO(3-2) High Resolution Survey*, March, 2019, MNRAS, 483, 4290, *13 Citation(s)*

[17] **Ginsburg**, A. et al., *astroquery: An Astronomical Web-Querying Package in Python*, March, 2019, AJ, 157, 98, *35 Citation(s)*

[18] Suri, S. T. et al., *The CARMA-NRO Orion Survey: The filamentary structure as seen in $C^{18}O$ emission*, March, 2019, A&A, 623, A142, *10 Citation(s)*

[19] Liu, H. B. et al., *Investigating fragmentation of gas structures in OB cluster-forming molecular clump G33.92+0.11 with 1000 AU resolution observations of ALMA*, February, 2019, ApJ, 871, 185, *11 Citation(s)*

[20] Mangum, J. G., **Ginsburg**, A. G., Henkel, C., Menten, K. M., Aalto, S., & van der Werf, P., *Fire in the Heart: A Characterization of the High Kinetic Temperatures and Heating Sources in the Nucleus of NGC253*, February, 2019, ApJ, 871, 170, *7 Citation(s)*

[21] **Ginsburg**, A., McGuire, B., Plambeck, R., Bally, J., Goddi, C., & Wright, M., *Orion Source I's disk is salty*, February, 2019, ApJ, 872, 54, *8 Citation(s)*

[22] Mills, E. A. C. et al., *Discovery of 14NH3 (2,2) maser emission in Sgr B2-Main*, December, 2018, ApJ, 869, L14, *3 Citation(s)*

[23] —, *The Dense Gas Fraction in Galactic Center Clouds*, November, 2018, ApJ, 868, 7, *10 Citation(s)*

[24] Astropy Collaboration et al., *The Astropy Project: Building an Open-science Project and Status of the v2.0 Core Package*, September, 2018, AJ, 156, 123, *1164 Citation(s)*

[25] **Ginsburg**, A. & Kruijssen, J. M. D., *A High Cluster Formation Efficiency in the Sagittarius B2 Complex*, September, 2018, ApJ, 864, L17, *10 Citation(s)*

[26] Monsch, K. et al., *Dense Gas Kinematics and a Narrow Filament in the Orion A OMC1 Region Using NH_3*, July, 2018, ApJ, 861, 77, *16 Citation(s)*

[27] **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, *29 Citation(s)*

[28] Kong, S. et al., *The CARMA-NRO Orion Survey*, June, 2018, ApJS, 236, 25, *31 Citation(s)*

[29] 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, *14 Citation(s)*

[30] 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, *1 Citation(s)*

[31] 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 Citation(s)*

[32] **Ginsburg**, A. et al., *Distributed Star Formation throughout the Galactic Center Cloud Sgr B2*, February, 2018, ApJ, 853, 171, *36 Citation(s)*

[33] Walker, D. L. et al., *Star formation in a high-pressure environment: An SMA view of the Galactic centre dust ridge*, February, 2018, MNRAS, 474, 2373, *17 Citation(s)*

[34] 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, *18 Citation(s)*

[35] Redaelli, E. et al., *The Green Bank Ammonia Survey: Unveiling the Dynamics of the Barnard 59 star-forming Clump*, December, 2017, ApJ, 850, 202, *7 Citation(s)*

[36] Keown, J. et al., *The Green Bank Ammonia Survey: Observations of Hierarchical Dense Gas Structures in Cepheus-L1251*, November, 2017, ApJ, 850, 3, *14 Citation(s)*

[37] Krieger, N. et al., *The Survey of Water and Ammonia in the Galactic Center (SWAG): Molecular Cloud Evolution in the Central Molecular Zone*, November, 2017, ApJ, 850, 77, *30 Citation(s)*

[38] Kirk, H. et al., *The Green Bank Ammonia Survey: Dense Cores Under Pressure in Orion A*, September, 2017, ApJ, 846, 144, *36 Citation(s)*

[39] Friesen, R. K. et al., *The Green Bank Ammonia Survey: First Results of NH_3 Mapping of the Gould Belt*, July, 2017, ApJ, 843, 63, *73 Citation(s)*

[40] Sánchez-Monge, Á. et al., *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, *28 Citation(s)*

[41] **Ginsburg**, A. et al., *Thermal Feedback in the High-mass Star- and Cluster-forming Region W51*, June, 2017, ApJ, 842, 92, *21 Citation(s)*

[42] Lin, Y. et al., *Cloud structure of three Galactic infrared dark star-forming regions from combining ground and space based bolometric observations*, May, 2017, ApJ, 840, 22, *21 Citation(s)*

[43] Schuller, F. et al., *SEDIGISM: Structure, excitation, and dynamics of the inner Galactic interstellar medium*, May, 2017, A&A, 601, A124, *34 Citation(s)*

[44] Lu, X. et al., *The Molecular Gas Environment in the 20 km s^{-1} Cloud in the Central Molecular Zone*, April, 2017, ApJ, 839, 1, *19 Citation(s)*

[45] Bally, J. et al., *The ALMA View of the OMC1 Explosion in Orion*, March, 2017, ApJ, 837, 60, *58 Citation(s)*

[46] Schap, III, W. J., Barnes, P. J., Ordoñez, A., **Ginsburg**, A., Yonekura, Y., & Fukui, Y., *HCN hyperfine ratio analysis of massive molecular clumps*, March, 2017, MNRAS, 465, 2559, *3 Citation(s)*

[47] Immer, K., Kauffmann, J., Pillai, T., **Ginsburg**, A., & Menten, K. M., *Temperature structures in Galactic Center clouds - Direct evidence for gas heating via turbulence*, November, 2016, A&A, 595, A94, *19 Citation(s)*

[48] McLeod, A. F. et al., *Connecting the dots: a correlation between ionising radiation and cloud mass-loss rate traced by optical integral field spectroscopy*, November, 2016, MNRAS, 462, 3537, *20 Citation(s)*

[49] Galametz, M. et al., *Water, methanol and dense gas tracers in the local ULIRG Arp 220: results from the new SEPIA Band 5 Science Verification campaign*, October, 2016, MNRAS, 462, L36, *12 Citation(s)*

[50] **Ginsburg**, A. et al., *Toward gas exhaustion in the W51 high-mass protoclusters*, October, 2016, A&A, 595, A27, *40 Citation(s)*

[51] Lin, Y. et al., *Cloud Structure of Galactic OB Cluster-forming Regions from Combining Ground- and Space-based Bolometric Observations*, September, 2016, ApJ, 828, 32, *26 Citation(s)*

[52] Eisner, J. A., Bally, J. M., **Ginsburg**, A., & Sheehan, P. D., *Protoplanetary Disks in the Orion OMC1 Region Imaged with ALMA*, July, 2016, ApJ, 826, 16, *30 Citation(s)*

[53] Youngblood, A., **Ginsburg**, A., & Bally, J., *The Orion fingers: Near-IR spectral imaging of an explosive outflow*, June, 2016, AJ, 151, 173, *11 Citation(s)*

[54] Goddi, C., **Ginsburg**, A., & Zhang, Q., *Hot ammonia around young O-type stars. III. High-mass star formation and hot core activity in W51 Main*, May, 2016, A&A, 589, A44, *7 Citation(s)*

[55] Svoboda, B. E. et al., *The Bolocam Galactic Plane Survey. XIV. Physical Properties of Massive Starless and Star-forming Clumps*, May, 2016, ApJ, 822, 59, *44 Citation(s)*

[56] Henshaw, J. D. et al., *Molecular gas kinematics within the central 250 pc of the Milky Way*, April, 2016, MNRAS, 457, 2675, *106 Citation(s)*

[57] Mc Leod, A. F., Weilbacher, P. M., **Ginsburg**, A., Dale, J. E., Ramsay, S., & Testi, L., *A nebular analysis of the central Orion nebula with MUSE*, February, 2016, MNRAS, 455, 4057, *12 Citation(s)*

[58] **Ginsburg**, A. et al., *Dense gas in the Galactic central molecular zone is warm and heated by turbulence*, February, 2016, A&A, 586, A50, *108 Citation(s)*

[59] Colombo, D., Rosolowsky, E., **Ginsburg**, A., Duarte-Cabral, A., & Hughes, A., *Graph-based interpretation of the Molecular Interstellar Medium Segmentation*, December, 2015, MNRAS, 454, 2067, *37 Citation(s)*

[60] **Ginsburg**, A. et al., *High-mass star-forming cloud G0.38+0.04 in the Galactic Center Dust Ridge contains H2CO and SiO masers*, December, 2015, A&A, 584, L7, *23 Citation(s)*

[61] Weilbacher, P. M. et al., *A MUSE map of the central Orion Nebula (M 42)*, October, 2015, A&A, 582, A114, *48 Citation(s)*

[62] Bally, J., **Ginsburg**, A., Silvia, D., & Youngblood, A., *The Orion fingers: Near-IR adaptive optics imaging of an explosive protostellar outflow*, July, 2015, A&A, 579, A130, *31 Citation(s)*

[63] **ALMA Partnership** et al., *The 2014 ALMA Long Baseline Campaign: An Overview*, July, 2015, ApJ, 808, L1, *72 Citation(s)*

[64] Wang, K., Testi, L., **Ginsburg**, A., Walmsley, C. M., Molinari, S., & Schisano, E., *Large-scale filaments associated with Milky Way spiral arms*, July, 2015, MNRAS, 450, 4043, *75 Citation(s)*

[65] Ellsworth-Bowers, T. P. et al., *The Bolocam Galactic Plane Survey. XIII. Physical Properties and Mass Functions of Dense Molecular Cloud Structures*, June, 2015, ApJ, 805, 157, *10 Citation(s)*

[66] McLeod, A. F. et al., *The Pillars of Creation revisited with MUSE: gas kinematics and high-mass stellar feedback traced by optical spectroscopy*, June, 2015, MNRAS, 450, 1057, *35 Citation(s)*

[67] Merello, M. et al., *The Bolocam Galactic Plane Survey. XI. Temperatures and Substructure of Galactic Clumps Based On 350 μm Observations*, May, 2015, ApJS, 218, 1, *14 Citation(s)*

[68] Thompson, M. et al., *The ionised,radical and molecular Milky Way: spectroscopic surveys with the SKA*, April, 2015, Advancing Astrophysics with the Square Kilometre Array (AASKA14), 126, *2 Citation(s)*

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