

Enrico Congiu

ESO FELLOW

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Education

Università di Padova

PHD IN ASTRONOMY

• Advisor: Dr. Stefano Ciroi

Italy

2019

Università di Padova

MS IN ASTRONOMY

• Advisor: Dr. Stefano Ciroi

Italy

2015

Università di Padova

BS IN ASTRONOMY

• Advisor: Dr. Stefano Ciroi

Italy

2013

Professional Experience

2022–Now **ESO Fellow**, European Southern Observatory
2020–2022 **CATA/DAS Postdoctoral fellow**, Departamento de Astronomía – Universidad de Chile
2019–2020 **Telescope Operator**, Las Campanas Observatory – Carnegie Institution for Science
2018–2019 **Student Fellow**, Las Campanas Observatory – Carnegie Institution for Science

Publication Summary

Author of **69 refereed publications**, including **6 as first author** (one in press and advertised as an **ESO press release**), with **3076 citations** and an **h-index of 31** (NASA ADS). Also contributed to numerous non-refereed publications. A full publication list is available **here** or attached to this document.

Observatory experience

Extensive observing experience with a wide range of instruments and telescopes, including: **60 nights** at the **Asiago Astrophysical Observatory** (AFOSC, B&C Spectrograph, DirectCCD); **13 nights** at **La Silla** (EFOSC2, SOFI); **104 nights** at **Las Campanas Observatory (LCO)** as both support and visiting astronomer (DirectCCD, WFCCD, LDSS3, MIKE, MagE, FIRE, FourStar, IMACS); **212 nights** at **Paranal Observatory** as UT4 and UT3 night astronomer and VLT day astronomer (MUSE, HAWK-I, ERIS, SPHERE, XSHOOTER, CRRES+); and **20 nights** as remote observer with the **Local Volume Mapper**.

MUSE

Role: Instrument Fellow

Project: TipTop for MUSE ETC 2.0 – Status: in progress in collaboration with C. F. Manara and A. Kuznetsov (ESO Garching)

Project: Characterization of the NFM PSF – Status: PDM report delivered

Operations: Instrument recommissioning after intervention

HAWKI

Role: Instrument Fellow

Operations: Commissioning of Darks acquisition with new LED dome lights

Operations: Instrument recommissioning after software upgrade

Operations: Quarterly report Q1/2025 under supervision by Instrument Scientist (M. Berton)

STUDENT PROJECTS (CO-)SUPERVISION

2025 – **P. Condò:** Characterizing MUSE NFM AO performances with new Turbulence Categories

Status: analysis performed, results discussed with Instrument Scientist (F. Byan)

- 2025 – **Y. López:** Characterising MUSE pointing accuracy
Status: analysis performed, results to be included in the MUSE Manual
- 2024 – **C. Tovo:** Characterization of the HAWKI PSF using Gaia sources
Status: algorithm in SCUBA, to be implemented in the pipeline
- 2024 – **A. Singh:** Understanding discrepancies between data and MUSE ETC predictions
Status: analysis performed, results discussed with IS and ETC and pipeline exper

Presentations

CONFERENCES (LAST 5 YEARS)

- Oct. 2025 – *XX SOCHIAS annual meeting*, Chile, contributed talk (accepted)
- Nov. 2024 – *A decade of discoveries with MUSE and beyond*, Germany, contributed talk
- May 2024 – *Chemical abundances in gaseous nebulae: Multi-Scale Metals Throughout the Universe*, Brasil, contributed talk
- Nov. 2023 – *XVII Latin American Regional IAU Meeting*, Uruguay, contributed talk
- Mar. 2023 – *XVIII SOCHIAS annual meeting*, Chile, contributed talk and poster
- Oct. 2022 – *LVM Early Science Workshop*, Germany, contributed talk
- Sep. 2022 – *Physics and Chemistry of Star Formation: The Dynamical ISM Across Time and Spatial Scales*, Chile, poster
- Apr. 2022 – *Joint Observatories Kavli Science Forum in Chile*, Chile, contributed talk
- Sep. 2021 – *Virtual Annual Meeting of the German Astronomical Society*, online, contributed talk
- Sep. 2021 – *SDSS-IV/V Collaboration Meeting*, online, contributed talk

INVITED LECTURES

- Feb. 2024. – *Observing techniques - photometry*, NEON Observing School 2023, Asiago Astronomical Observatory

SEMINARS (LAST 5 YEARS)

- Oct. 2025 – Universidad Diego Portales, Chile (Scheduled)
- June 2025 – Università di Bologna, Italy
- Jan. 2025 – Università di Padova, Italy
- Nov. 2024 – Helsinki University, Finland
- Nov. 2024 – Turku University, Finland
- Jul. 2024 – Max Planck Institute for Astronomy, Germany
- Jun. 2023 – Universidad Andrés Bello, Chile
- Apr. 2023 – European Southern Observatory, Chile
- Oct. 2022 – ARI-Heidelberg University, Germany
- Jun. 2021 – Ringberg seminar series, online
- Mar. 2021 – Universidad de Chile, Santiago, Chile
- Nov. 2020 – Aalto University Metsähovi Radio Observatory, online, Finland

Teaching Experience

2025	Extragalactic Astronomy , One class (2 hours) on the ionized interstellar medium	UDP
2023	Spectroscopy , Two classes (3 hours) on the ionized interstellar medium	UNIPD
2017–2018	Il Cielo come Laboratorio , Tutor	UNIPD
2016–2017	Tutor for BSc in Astronomy , Tutor 50 hrs	UNIPD
2014–2015	Tutor for BSc degree in Scienze e Tecnologie per l'Ambiente , Tutor 90 hrs	UNIPD

Mentoring

2025	Pierpaolo Condò , Co-Advisor ESO Early Career Visitor	ESO
2022–Now	Amrita Singh , Co-Advisor PhD	UChile
2024	Carla Tovo , Co-Advisor Master thesis and Advisor ESO internship	UNIPD & ESO
2021	Mr. M. G. Moreno , Advisor Trabajo Tutorial Basico	UChile
2018	Andrea Zamboni , Co-Advisor BS thesis	UNIPD

Professional Development

SERVICE

2025–Now **Visitor Selection Committee**, Panel Member
 2022–Now **Extragalactic Meeting**, Co-organizer
 2024 **Fellow Selection Committee**, Panel Member
 2024–2025 **GALRES25 Conference**, SOC co-chair and LOC member
 2024–2025 **Second LVM Science Meeting**, LOC member
 2024 **2023 NEON Observing School**, Tutor
 2022–2024 **Chilean National TAC (APEX)**, Panel Member and Chair (last meeting)

ESO Chile
ESO Chile
ESO Chile
ESO Garching
La Serena, CL
Asiago, IT
Chile

PEER REVIEW

Astrophysical Journal
 Advances in Space Research
 Frontiers in Astronomy and Space Sciences
 Agencia Estatal de Investigación (AEI)

PROFESSIONAL MEMBERSHIPS

SOCHIAS

SCIENTIFIC COLLABORATIONS

PHANGS – role: PHANGS-MUSE working group co-lead
 LVM – role: Observer and LVM data simulator developer

Grants & Observing time

GRANTS

2024	FINCA visitor funds , PI	€ 700
	ESO workshop funds , Co-PI	€ 3,500
	CATA fund for conferences , Co-PI	CLP 5,000,000
	ESO internship , Sponsor	€ 3,000
2023	ESO SSDF , PI	€ 4,200
2019	Carnegie 3x5 award , Co-PI	\$ 5,000

OBSERVING TIME (PI)

2023	Resolving HII Regions and ISM Structure Across the Milky Way Analog NGC 253 , JWST, Co-PI	22.06 hrs
2022	Unveiling the fountain: the MUSE view on the Sculptor , MUSE, PI	9.5 hrs
2021	Unveiling the fountain: the MUSE view on the Sculptor , MUSE, PI	50.5 hrs
2018	Is Mrk 783 an interacting galaxy? , DOLORES@TNG, PI	1 hr
	Young jet and old radio emission: Mrk 783, a puzzling NLS1 , VLBA, PI	3 hrs
2017	High-resolution imaging of the kiloparsec scale emission in Mrk 783 , MERLIN, PI	13.2 hrs
2017	The very low state of the FSRQ 3C 345 , DOLORES@TNG, PI	1 hr

Publications

FIRST AUTHOR

- Congiu, E.**, Scheuermann, F., Kreckel, K., and 21 colleagues, “The MUSE view of the Sculptor galaxy: survey overview and the planetary nebulae luminosity function.”, in press, *Astronomy and Astrophysics*.
- Congiu, E.**, Blanc, G.A., Belfiore, F., and 15 colleagues, “PHANGS-MUSE: Detection and Bayesian classification of 40 000 ionised nebulae in nearby spiral galaxies”, 2023, *Astronomy and Astrophysics*, 672, A148
- Congiu, E.**, Kharb, P., Tarchi, A., and 9 colleagues, “The radio structure of the narrow-line Seyfert 1 Mrk 783 with VLBA and e-MERLIN”, 2020, *Monthly Notices of the Royal Astronomical Society*, 499, 3149
- Congiu, E.**, Contini, M., Ciroi, S., and 6 colleagues, “High-resolution spectroscopy of the extended narrow-line region of IC 5063 and NGC 7212”, 2017, *Monthly Notices of the Royal Astronomical Society*, 471, 562
- Congiu, E.**, Contini, M., Ciroi, S., and 6 colleagues, “Extended Narrow-Line Region in Seyfert Galaxies”, 2017, *Frontiers in Astronomy and Space Sciences*, 4, 27
- Congiu, E.**, Berton, M., Giroletti, M., and 12 colleagues, “Kiloparsec-scale emission in the narrow-line Seyfert 1 galaxy Mrk 783”, 2017, *Astronomy and Astrophysics*, 603, A32

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- Cronin, S.A., Bolatto, A.D., **Congiu, E.**, and 7 colleagues, “Physical Conditions of the Ionized Superwind in NGC 253 with VLT/MUSE”, 2025, *The Astrophysical Journal*, 987, 92.
- Dalla Barba, B., Berton, M., Foschini, L., and 6 colleagues including **Congiu, E.**, “Interaction of the relativistic jet and the narrow-line region of PMN J0948+0022”, 2025, *Astronomy and Astrophysics*, 698, A320.
- Chandar, R., Barnes, A.T., Thilker, D.A., and 38 colleagues including **Congiu, E.**, “The PHANGS-HST-H α Survey: Warm Ionized Gas Physics at High Angular Resolution in Nearby Galaxies with the Hubble Space Telescope”, 2025, *The Astronomical Journal*, 169, 150
- Dastidar, R., Misra, K., Valenti, S., and 31 colleagues including **Congiu, E.**, “SN 2018is: A low-luminosity Type IIP supernova with narrow hydrogen emission lines at early phases”, 2025 *Astronomy and Astrophysics*, 694, A260.
- Belfiore, F., Ginolfi, M., Blanc, G., and 8 colleagues including **Congiu, E.**, “Machine learning the gap between real and simulated nebulae: A domain-adaptation approach to classify ionised nebulae in nearby galaxies”, 2025, *Astronomy and Astrophysics*, 694, A212
- Drory, N., Blanc, G.A., Kreckel, K., and 48 colleagues including **Congiu, E.**, “The SDSS-V Local Volume Mapper (LVM): Scientific Motivation and Project Overview”, 2024, *The Astronomical Journal*, 168, 198
- Li, J., Kreckel, K., Sarbadhicary, S., and 17 colleagues including **Congiu, E.**, “Discovery of 2200 new supernova remnants in 19 nearby star-forming galaxies with MUSE spectroscopy”, 2024, *Astronomy and Astrophysics*, 690, A161
- Kreckel, K., Egorov, O.V., Egorova, E., and 37 colleagues including **Congiu, E.**, “SDSS-V Local Volume Mapper (LVM): A glimpse into Orion”, 2024, *Astronomy and Astrophysics*, 689, A352
- Rojas-Ruiz, S., Mazzucchelli, C., Finkelstein, S.L., and 10 colleagues including **Congiu, E.**, “Exploring the Mpc Environment of the Quasar ULAS J1342+0928 at $z = 7.54$ ”, 2024, *The Astrophysical Journal*, 967, 27
- Varglund, I., Järvelä, E., Ciroi, S., and 4 colleagues including **Congiu, E.**, “A host galaxy study of southern narrow-line Seyfert 1 galaxies”, 2023, *Astronomy and Astrophysics*, 679, A32
- Egorov, O.V., Kreckel, K., Glover, S.C.O., and 19 colleagues including **Congiu, E.**, “Quantifying the energy balance between the turbulent ionised gas and young stars”, 2023, *Astronomy and Astrophysics*, 678, A153
- Belfiore, F., Leroy, A.K., Williams, T.G., and 25 colleagues including **Congiu, E.**, “Calibrating mid-infrared emission as a tracer of obscured star formation on H II-region scales in the era of JWST”, 2023, *Astronomy and Astrophysics*, 678, A129
- Ducci, L., Malacaria, C., Romano, P., and 4 colleagues including **Congiu, E.**, “X-ray flashes from the low-mass X-ray binary IGR J17407–2808”, 2023, *Astronomy and Astrophysics*, 674, A100
- Groves, B., Kreckel, K., Santoro, F., and 17 colleagues including **Congiu, E.**, “The PHANGS-MUSE nebular catalogue”, 2023, *Monthly Notices of the Royal Astronomical Society*, 520, 4902
- Hon, W., Berton, M., Sani, E., and 6 colleagues including **Congiu, E.**, “A redshifted excess in the broad emission lines after the flare of the γ -ray narrow-line Seyfert 1 PKS 2004–447”, 2023, *Astronomy and Astrophysics*, 672, L14
- Watkins, E.J., Barnes, A.T., Henny, K., and 50 colleagues including **Congiu, E.**, “PHANGS-JWST First Results: A Statistical View on Bubble Evolution in NGC 628”, 2023, *The Astrophysical Journal*, 944, L24
- Kim, J., Chevance, M., Kruijssen, J.M.D., and 33 colleagues including **Congiu, E.**, “PHANGS-JWST First Results: Duration of the Early Phase of Massive Star Formation in NGC 628”, 2023, *The Astrophysical Journal*, 944, L20
- Lee, J.C., Sandstrom, K.M., Leroy, A.K., and 74 colleagues including **Congiu, E.**, “The PHANGS-JWST Treasury Survey: Star Formation, Feedback, and Dust Physics at High Angular Resolution in Nearby Galaxies”, 2023, *The Astrophysical Journal*, 944, L17
- Egorov, O.V., Kreckel, K., Sandstrom, K.M., and 30 colleagues including **Congiu, E.**, “PHANGS-JWST First Results: Destruction of the PAH Molecules in H II Regions Probed by JWST and MUSE”, 2023, *The Astrophysical Journal*, 944, L16
- Thilker, D.A., Lee, J.C., Deger, S., and 36 colleagues including **Congiu, E.**, “PHANGS-JWST First Results: The Dust Filament Network of NGC 628 and Its Relation to Star Formation Activity”, 2023, *The Astrophysical Journal*, 944, L13
- Leroy, A.K., Sandstrom, K., Rosolowsky, E., and 48 colleagues including **Congiu, E.**, “PHANGS-JWST First Results: Mid-

- infrared Emission Traces Both Gas Column Density and Heating at 100 pc Scales”, 2023, The Astrophysical Journal, 944, L9
- Belfiore, F., Leroy, A.K., Sun, J., and 17 colleagues including **Congiu, E.**, “Calibration of hybrid resolved star formation rate recipes based on PHANGS-MUSE H α and H β maps”, 2023, Astronomy and Astrophysics, 670, A67
- Varglund, I., Järvelä, E., Lähteenmäki, A., and 3 colleagues including **Congiu, E.**, “Jetted narrow-line Seyfert 1 galaxies breaking the jet paradigm: A comprehensive study of host-galaxy morphologies”, 2022, Astronomy and Astrophysics, 668, A91
- Kim, J., Chevance, M., Kruijssen, J.M.D., and 27 colleagues including **Congiu, E.**, “Environmental dependence of the molecular cloud lifecycle in 54 main-sequence galaxies”, 2022, Monthly Notices of the Royal Astronomical Society, 516, 3006
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- Vietri, A., Järvelä, E., Berton, M., and 4 colleagues including **Congiu, E.**, “Spectacular 240 kpc double-sided relativistic jets in a spiral-hosted narrow-line Seyfert 1 galaxy”, 2022, Astronomy and Astrophysics, 662, A20
- Scheuermann, F., Kreckel, K., Anand, G.S., and 15 colleagues including **Congiu, E.**, “Planetary nebula luminosity function distances for 19 galaxies observed by PHANGS-MUSE”, 2022, Monthly Notices of the Royal Astronomical Society, 511, 6087
- Pan, H.-A., Schinnerer, E., Hughes, A., and 36 colleagues including **Congiu, E.**, “The Gas-Star Formation Cycle in Nearby Star-forming Galaxies. II. Resolved Distributions of CO and H α Emission for 49 PHANGS Galaxies”, 2022, The Astrophysical Journal, 927, 9
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- Belfiore, F., Santoro, F., Groves, B., and 17 colleagues including **Congiu, E.**, “A tale of two DIGs: The relative role of H II regions and low-mass hot evolved stars in powering the diffuse ionised gas (DIG) in PHANGS-MUSE galaxies”, 2022, Astronomy and Astrophysics, 659, A26
- Santoro, F., Kreckel, K., Belfiore, F., and 30 colleagues including **Congiu, E.**, “PHANGS-MUSE: The H II region luminosity function of local star-forming galaxies”, 2022, Astronomy and Astrophysics, 658, A188
- Järvelä, E., Dahale, R., Crepaldi, L., and 3 colleagues including **Congiu, E.**, “Unravelling the origin of extended radio emission in narrow-line Seyfert 1 galaxies with the JVLA”, 2022, Astronomy and Astrophysics, 658, A12
- Williams, T.G., Kreckel, K., Belfiore, F., and 25 colleagues including **Congiu, E.**, “The 2D metallicity distribution and mixing scales of nearby galaxies”, 2022, Monthly Notices of the Royal Astronomical Society, 509, 1303
- Lee, J.C., Whitmore, B.C., Thilker, D.A., and 52 colleagues including **Congiu, E.**, “The PHANGS-HST Survey: Physics at High Angular Resolution in Nearby Galaxies with the Hubble Space Telescope”, 2022, The Astrophysical Journal Supplement Series, 258, 10
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- Berton, M., Peluso, G., Marziani, P., and 19 colleagues including **Congiu, E.**, “Hunting for the nature of the enigmatic narrow-line Seyfert 1 galaxy PKS 2004-447”, 2021, Astronomy and Astrophysics, 654, A125
- Leroy, A.K., Hughes, A., Liu, D., and 65 colleagues including **Congiu, E.**, “PHANGS-ALMA Data Processing and Pipeline”, 2021, The Astrophysical Journal Supplement Series, 255, 19
- Pessa, I., Schinnerer, E., Belfiore, F., and 31 colleagues including **Congiu, E.**, “Star formation scaling relations at ~ 100 pc from PHANGS: Impact of completeness and spatial scale”, 2021, Astronomy and Astrophysics, 650, A134
- Tang, M., Stark, D.P., Chevallard, J., and 3 colleagues including **Congiu, E.**, “Lyman-alpha spectroscopy of extreme [O III] emitting galaxies at $z \sim 2-3$: implications for Ly α visibility and LyC leakage at $z > 6$ ”, 2021, Monthly Notices of the Royal Astronomical Society, 503, 4105
- Vito, F., Brandt, W.N., Ricci, F., and 19 colleagues including **Congiu, E.**, “Chandra and Magellan/FIRE follow-up observations of PSO167-13: An X-ray weak QSO at $z = 6.515$ ”, 2021, Astronomy and Astrophysics, 649, A133
- Tang, M., Stark, D.P., Chevallard, J., and 3 colleagues including **Congiu, E.**, “Rest-frame UV spectroscopy of extreme [O III] emitters at $1.3 < z < 3.7$: toward a high-redshift UV reference sample for JWST”, 2021, Monthly Notices of the Royal Astronomical Society, 501, 3238
- Rampazzo, R., Ciroti, S., Mazzei, P., and 9 colleagues including **Congiu, E.**, “Dorado and its member galaxies. H α imaging of the group backbone”, 2020, Astronomy and Astrophysics, 643, A176
- Wei, W., Huerta, E.A., Whitmore, B.C., and 13 colleagues including **Congiu, E.**, “Deep transfer learning for star cluster classification: I. application to the PHANGS-HST survey”, 2020, Monthly Notices of the Royal Astronomical Society, 493, 3178

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- Berton, M., Järvelä, E., Crepaldi, L., and 6 colleagues including **Congiu, E.**, “Absorbed relativistic jets in radio-quiet narrow-line Seyfert 1 galaxies”, 2020, *Astronomy and Astrophysics*, 636, A64
- Berton, M., Björklund, I., Lähteenmäki, A., and 4 colleagues including **Congiu, E.**, “Line shapes in narrow-line Seyfert 1 galaxies: a tracer of physical properties?”, 2020, *Contributions of the Astronomical Observatory Skalnaté Pleso*, 50, 270
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- Andrews, J.E., Sand, D.J., Valenti, S., and 77 colleagues including **Congiu, E.**, “SN 2017gmr: An Energetic Type II-P Supernova with Asymmetries”, 2019, *The Astrophysical Journal*, 885, 43
- Pastorello, A., Mason, E., Taubenberger, S., and 36 colleagues including **Congiu, E.**, “Luminous red novae: Stellar mergers or giant eruptions?”, 2019, *Astronomy and Astrophysics*, 630, A75
- Acharyya, A., Agudo, I., Angüner, E.O., and 197 colleagues including **Congiu, E.**, “Monte Carlo studies for the optimisation of the Cherenkov Telescope Array layout”, 2019, *Astroparticle Physics*, 111, 35
- Pastorello, A., Reguitti, A., Morales-Garoffolo, A., and 45 colleagues including **Congiu, E.**, “A luminous stellar outburst during a long-lasting eruptive phase first, and then SN IIn 2018cnf”, 2019, *Astronomy and Astrophysics*, 628, A93
- Berton, M., Congiu, E., Ciroi, S., and 15 colleagues, “The Interacting Late-type Host Galaxy of the Radio-loud Narrow-line Seyfert 1 IRAS 20181-2244”, 2019, *The Astronomical Journal*, 157, 48
- Chen, S., Berton, M., La Mura, G., and 7 colleagues including **Congiu, E.**, “Probing narrow-line Seyfert 1 galaxies in the southern hemisphere”, 2018, *Astronomy and Astrophysics*, 615, A167
- Berton, M., Liao, N.H., La Mura, G., and 17 colleagues including **Congiu, E.**, “The flat-spectrum radio quasar 3C 345 from the high to the low emission state”, 2018, *Astronomy and Astrophysics*, 614, A148
- Berton, M., Congiu, E., Järvelä, E., and 14 colleagues, “Radio-emitting narrow-line Seyfert 1 galaxies in the JVL A perspective”, 2018, *Astronomy and Astrophysics*, 614, A87
- La Mura, G., Berton, M., Chen, S., and 7 colleagues including **Congiu, E.**, “Models of Emission-Line Profiles and Spectral Energy Distributions to Characterize the Multi-Frequency Properties of Active Galactic Nuclei”, 2017, *Atoms*, 5, 43
- La Mura, G., Berton, M., Chen, S., and 5 colleagues including **Congiu, E.**, “Multi-frequency databases for AGN investigation - Results and perspectives”, 2017, *Frontiers in Astronomy and Space Sciences*, 4, 25
- Berton, M., Foschini, L., Caccianiga, A., and 6 colleagues including **Congiu, E.**, “An orientation-based unification of young jetted active galactic nuclei: the case of 3C 286”, 2017, *Frontiers in Astronomy and Space Sciences*, 4, 8
- La Mura, G., Busetto, G., Ciroi, S., and 5 colleagues including **Congiu, E.**, “Relativistic plasmas in AGN jets. From synchrotron radiation to γ -ray emission”, 2017, *European Physical Journal D*, 71, 95
- Berton, M., Caccianiga, A., Foschini, L., and 9 colleagues including **Congiu, E.**, “Compact steep-spectrum sources as the parent population of flat-spectrum radio-loud narrow-line Seyfert 1 galaxies”, 2016, *Astronomy and Astrophysics*, 591, A98

NON REFEREED

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- Congiu, E.**, Blanc, G., Belfiore, F., and 13 colleagues, “Classification of ionized nebulae in the PHANGS-MUSE sample: a Bayesian approach”, 2023, *Physics and Chemistry of Star Formation: The Dynamical ISM Across Time and Spatial Scales*, 75
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- Schinnerer, E., Leroy, A., Blanc, G., and 60 colleagues including **Congiu, E.**, “The Physics at High Angular resolution in Nearby Galaxies (PHANGS) Surveys”, 2019, *The Messenger*, 177, 36
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