

JUSTUS NEUMANN

- Curriculum Vitae -

Max-Planck-Institute for Astronomy (MPIA) • Galaxies and Cosmology Department •
Königstuhl 17 • 69117 Heidelberg • Germany • ORCID
jneumann@mpia.de • +49-6221-528370 (office) • <https://neumastronomy.com/>

RESEARCH APPOINTMENTS

- since 2022 **Postdoctoral Researcher** at the Max-Planck-Institute for Astronomy (MPIA), Germany in the group of Dr. Eva Schinnerer in the Galaxies and Cosmology Department
Research focus on galaxy evolution in the [PHANGS](#) survey, also part of the MUSE and WFI data reduction team.
- 2019 - 2022 **Research Fellow** in IFU Galaxy Evolution • ICG • University of Portsmouth
Collaborators: Prof. Daniel Thomas, Prof. Claudia Maraston
Research focus on stellar population analysis in MaNGA galaxies.
Responsible for maintaining and developing the [Firefly](#) full spectral fitting code as well as the [MaNGA Firefly Value-Added-Catalogue](#).

EDUCATION

- 2020 **DPhil in Astrophysics** • University of Potsdam • AIP
- 2015 - 2019 **PhD student in Astrophysics** • University of Potsdam • AIP • ESO Chile
[Secular Evolution in Galaxies: Properties of Bars and Bulges as seen with Integral Field Spectroscopy](#)
Supervisors: Prof. Lutz Wisotzki, Prof. Matthias Steinmetz, Dr. Dimitri Gadotti
- 2016 - 2018 **2-Year Studentship** • ESO Chile
Secular Evolution in Galaxies: Properties of Bars and Bulges as seen with Integral Field Spectroscopy
Supervisor: Dr. Dimitri Gadotti
- 2015 **MSci in Physics and Astrophysics** • University of Potsdam • AIP
Bulges in CALIFA Galaxies: A Synopsis of Diagnostic and Classification Approaches
German "Diplom". Grade: 1.3. Supervisor: Prof. Lutz Wisotzki
- 2007 - 2014 **Studies in Physics and Astrophysics** • University of Potsdam
- 2010 **1-Year DAAD Studentship** • Pontificia Universidad Católica de Chile

GRANTS

- 2016 - 2018 **ESO 2-Year Studentship** • European Southern Observatory • Chile
- 2010 **DAAD Studentship** • Pontificia Universidad Católica de Chile

OTHER WORK EXPERIENCES

- July 2017 **Instrumentation project** • ESO Chile • Paranal Observatory
New spectrophotometric standard stars for MUSE with XSHOOTER
- 2015 **Technical assistant** • Astronomical instrumentation and 3D spectroscopy • AIP Potsdam
- 2011 - 2015 **Student assistant** • Astronomical instrumentation and 3D spectroscopy • AIP Potsdam

MENTORING

Graduate students

- **Lorenza Nanni** (ICG Portsmouth, UK) Assisting with supervision, 2019-2022

Undergraduate students

- **Chuanming Mao** (U Heidelberg, MPIA) Primary Supervisor, 2023-2025
Master thesis: [Ionised AGN Outflows in the PHANGS-MUSE Survey](#). Grade 1.0
- **Ella Tanchon** (MPIA) – summer student, Primary Supervisor, 2023
- **Ryan Alexander** (ICG Portsmouth, UK) Strongly involved in supervision – 2021
- Assisting with supervision of 3 further undergraduate students between 2020-2022

APPROVED TELESCOPE PROPOSALS

As Principle Investigator

1. **MPG/ESO 2.2m/WFI – 117h** - P112 (57h), P114 (40h30m), P115 (19h30m)

As Co-Investigator

1. **JWST**, Cycle 2, #3707 (**153.3 hours**), #2987 (**22.6 hours**)
2. **HST**, Cycle 31, #17457 (**19 orbits**)
3. **ALMA**, Cycle 9-12: 7 programmes – **1160 hours**
4. **VLT/MUSE – 176 hours**: 114.26ZW (14h), **114.27KU (148h36m)**, 115.285L (14h), 116.292P (10h)
5. **VLT-HAWK-I**, P103-P104: 2 programmes - **24h**

CONFERENCES & SEMINARS

Seminar talks

1. **Durham University**, Durham, UK, 2024 ([invited seminar](#), online)
2. **ICG**, Portsmouth, UK, 2023 (seminar, online)
3. **MPIA**, Heidelberg, Germany, 2023 (colloquium)
4. **MPIA**, Heidelberg, Germany, 2023 (seminar)
5. **ARI**, Heidelberg, Germany, 2023 (seminar)
6. **ESO**, Santiago, Chile, 2022 (seminar)

7. **UDP**, Santiago, Chile, 2022 (seminar)
8. **PUC**, Santiago, Chile, 2022 (colloquium)
9. **IIEC-CSIC**, Barcelona, Spain, 2022 ([invited seminar](#), online)
10. **MPE (Infrared group)**, Garching, Germany, 2021 ([invited seminar](#), online)
11. **ESA**, 2021 ([ESA Fellowship Science Jamboree](#), online)
12. **MPE (OPINAS group)**, Garching, Germany, 2020 ([invited seminar](#), online)
13. **IAC**, Tenerife, Spain, 2019 (seminar)
14. **IAC**, Tenerife, Spain, 2019 (TIMER team meeting)
15. **ESO**, Santiago, Chile, 2018 (seminar)
16. **MPIA**, Heidelberg, Germany, 2018 (CARS team meeting)
17. **AIP**, Potsdam, Germany, 2017 (seminar)

Conference talks

1. **Galactic esosystems under the microscope**, ESO Garching, 2025, Title: *The Co-Evolution of Central Gas Rings and Nuclear Stellar Discs*
2. **A decade of discoveries with MUSE and beyond**, ESO Garching, 2024, Title: [The Co-Evolution of Central Gas Rings and Nuclear Stellar Discs](#)
3. **Galactic Bars**, Granada, Spain, 2023, Title: [Azimuthal Variations of Stellar Populations in Barred Galaxies](#)
4. **IWH (workshop): Theory meets Observations**, Heidelberg, Germany, 2022, Title: *Is Star Formation Suppressed in Barred Galaxies?*
5. **EAS**, Valencia, Spain, 2022 (remote talk), Title: *Stellar Populations of Galaxy Bars in the TIMER and MaNGA Surveys*
6. **ELT workshop - Spatially Resolved Spectroscopy with Extremely Large Telescopes**, Oxford, UK, 2021 (online), Title: *Evolution of stellar populations in the inner parts of galaxies*
7. **SDSS collaboration meeting**, 2021 (online), Title: *Drivers of Stellar Metallicity in Galaxies*
8. **NAM**, Bath, UK, 2021 (online), Lightening talk title: *Drivers of Stellar Metallicity in Galaxies*
9. **GALSPEC: Extragalactic Spectroscopic Surveys: Past, Present and Future of Galaxy Evolution**, ESO, Santiago, Chile, 2021 (online), Title: [Stellar populations of galaxy bars and the distribution of stellar metallicity in galaxies](#)
10. **Linking the Galactic and Extragalactic**, Australia, 2020 (online), Title: [Stellar populations of galactic bars and drivers of stellar metallicity in galaxies](#)
11. **Month of MaNGA**, 2020 (online), Title: *Drivers of stellar metallicity in galaxies*
12. **SDSS collaboration meeting**, 2020 (online), Title: *Updates on the MaNGA Firefly VAC*
13. **Galactic Rings: Signposts of Secular Evolution in Disk Galaxies**, University of Alabama, Tuscaloosa, USA, 2018, Title: [A combined photometric and kinematic recipe for evaluating the nature of bulges using the CALIFA sample](#)
14. **Galactic Rings: Signposts of Secular Evolution in Disk Galaxies**, University of Alabama, Tuscaloosa, USA, 2018, Lightening talk title: *The Nature of Star Formation within Bars*
15. **Galaxy Groups and Clusters II: Laboratories to study galaxy evolution**, Universidad de La Serena, Chile, 2017, Title: [A combined photometric and kinematic recipe for evaluating the nature of bulges using the CALIFA sample](#)
16. **SOCHIAS**, Maitencillo, Chile, 2017, Title: *Photometry and kinematics in a mixer: A combined recipe for evaluating the nature of bulges using the CALIFA sample*
17. **7th CALIFA Busy Week**, University of St. Andrews, UK, 2014, presentation of master's thesis

Conference poster

1. **Galactic Bars, Granada, Spain, 2023**, Title: [Star Formation in Galactic Bars - a Poorly Understood Process](#)
2. **Heidelberg-Havard meeting on Star Formation**, 2022, Title: *Star Formation in Galactic Bar Environments: A Poorly Understood Process*
3. **Chile-Cologne-Bonn-Symposium**, Puerto Varas, Chile, 2022, Title: *Star Formation in Galactic Bar Environments: A Poorly Understood Process*

4. **SDSS collaboration meeting**, 2021 (online), Title: *The new MaNGA Firefly Catalogue*
5. **NAM**, Bath, UK, 2021 (online), Title: [The new MaNGA Firefly Catalogue](#) and [Drivers of Stellar Metallicity in Galaxies](#)
6. **GALSPEC: Extragalactic Spectroscopic Surveys: Past, Present and Future of Galaxy Evolution**, ESO, Santiago, Chile, 2021 (online), Title: [The MaNGA Firefly Catalogue](#)
7. **IAUS 353: Galactic Dynamics in the Era of Large Surveys**, Shanghai, 2019, *Comparative analysis of the structural properties of star-forming and non-star-forming galaxy bars*
8. **Galactic Rings: Signposts of Secular Evolution in Disk Galaxies**, University of Alabama, Tuscaloosa, USA, 2018, Lightning talk title: [The Nature of Star Formation within Bars](#)
9. **Galaxy Groups and Clusters II: Laboratories to study galaxy evolution**, Universidad de La Serena, Chile, 2017, Title: [The Nature of Star Formation within Bars](#)
10. **EWASS**, Charles University, Prague, Czech Republic, 2017, Title: *Photometry and kinematics in a mixer: A rcombined recipe for evaluating the nature of bulges using the CALIFA sample*

Training schools and workshops

1. **Python bootcamp ESOPy2.0**, ESO Chile, 2018
2. **CV writing, scientific writing, and science talks workshop**, ESO Chile, 2016
3. **Lectures on Star Formation in Galaxies**, Prof. R.C. Kennicutt, UAB Chile, 2016
4. **Python bootcamp**, ESO Chile, 2016
5. **Lectures on Astrostatistics**, Dr. E. Feigelson, PUC Chile, 2016

PUBLIC OUTREACH

2019	Participation in Stargazing Event at Portsmouth Historic Dockyard, UK
2022	Talk at Vectis Astronomical Society, UK
2023	Faszination Astronomie Online (45k views, as of 07/2025) via YouTube organised by Haus der Astronomie, MPIA, Germany

INTERNATIONAL COLLABORATIONS

PHANGS	Physics at High Angular resolution in Nearby Galaxies (PI: E. Schinnerer) High-resolution observations of nearby galaxies using i.a. HST, MUSE, ALMA, JWST. Main survey goal: Understand the interplay between small-scale physics and star formation with galactic structure and galaxy evolution. Involved in MUSE and WFI data reduction and several scientific projects.
BANG	Bulge Assembly in Nearby Galaxies (PI: D. Gadotti) MUSE observations of 50 disc galaxies within 40 Mpc. Main goal: Determine the abundance of classical bulges and nuclear discs and characterise their ages and chemo-dynamical properties. Survey is starting as of 2025.
SDSS-IV/ MaNGA	Sloan Digital Sky Survey: Mapping Nearby Galaxies at APO (PI: K. Bundy) APO/BOSS IFU observations of ~10,000 nearby galaxies. Created the MaNGA Firefly Value-Added-Catalogue for the final DR17, a VAC of resolved stellar population parameters for all MaNGA galaxies. Involved in multiple scientific papers.
TIMER	Time Inference with MUSE in Extragalactic Rings (PI: D. Gadotti) MUSE observations of 24 nearby barred galaxies. Main survey goal: Estimate the epoch when galactic discs dynamically settle. Involved in multiple scientific papers.

PUBLICATIONS

Number of refereed publications (all / first-author)	63 / 6
Number of submitted publications (all / first-author)	1 / -
<i>h</i> -index (refereed)	23
Number of non-refereed publications (all / first-author)	18 / 7

All refereed publications: [Justus Neumann - ADS Publication Library](#)

First-author and leading-author (refereed)

1. Stellar population modelling of neutron stars and black holes: spatially resolved graveyards in MaNGA/SDSS-IV galaxies
C. Maraston, M. Limongi, J. Neumann, et al., MNRAS, 540, 2359-2376, July 2025
New mass-loss prescriptions in stellar population synthesis used for modelling stellar remnants in MaNGA galaxies; first 2D maps of black holes, neutron stars and white dwarfs in galaxies.
2. Azimuthal variations of stellar populations in barred galaxies
J. Neumann, D. Thomas, C. Maraston et al., MNRAS, 534, 2438-2457, Nov 2024
One of the most extensive 2D stellar population analyses in barred galaxies to date, finding that stellar populations in bars differ from those in their host discs suggesting a unique evolution
3. On the Role of Noncircular Motions in MaNGA Galaxies. I. Global Properties
C. López-Cobá, L. Lihwai, J. Neumann et al., ApJ, 975, 182, Nov 2024
Kinematic analysis of MaNGA galaxies and the role of noncircular motions.
4. iMaNGA: mock MaNGA galaxies based on IllustrisTNG and MaStar SSPs. - III. Stellar metallicity drivers in MaNGA and TNG50
L. Nanni, J. Neumann, et al., MNRAS, 527, 6419-6438, Jan 2024
Comparing the distribution of stellar metallicity in TNG50 galaxies from mock observations with MaNGA galaxies.
5. The MaNGA FIREFLY value added catalogue: resolved stellar populations of 10 010 nearby galaxies
J. Neumann, D. Thomas, C. Maraston et al., MNRAS, 513, 5988-6012, July 2022
Extensive analysis of stellar populations from IFU data providing a unique legacy catalogue of the nearby universe. I further contributed to the development of the FIREFLY full-spectral-fitting code (https://github.com/FireflySpectra/firefly_release)
6. SDSS-IV MaNGA: drivers of stellar metallicity in nearby galaxies
J. Neumann, D. Thomas, C. Maraston, et al. MNRAS, 508, 4844-4857, Oct 2021
Analysis of stellar populations in nearby galaxies finding a resolved counterpart to the well-known global mass-metallicity relation.
7. Inside-out formation of nuclear discs and the absence of old central spheroids in barred galaxies of the TIMER survey
A. Bittner, P. Sánchez-Blázquez, D.A. Gadotti, J. Neumann, et al., A&A, 643, A65, Nov 2020
8. Stellar populations across galaxy bars in the TIMER project
J. Neumann, F. Fragkoudi, I. Pérez, D.A. Gadotti, et al., A&A, 637, A56, May 2020
Stellar population analysis from MUSE data and comparison to hydrodynamical zoom-in simulations finding a kinematic separation of stellar populations caused by galactic bars.

9. *The Close AGN Reference Survey (CARS). Comparative analysis of the structural properties of star-forming and non-star-forming galaxy bars*
J. Neumann, D. A. Gadotti, L. Wisotzki, et al., *A&A*, 627, A26, July 2019
MUSE IFU data analysis showing that bars clearly separate in star-forming and non-star-forming bars. First quantitative measurements of star formation rates in bars.
10. *A combined photometric and kinematic recipe for evaluating the nature of bulges using the CALIFA sample*
J. Neumann, L. Wisotzki, O. S. Choudhury, et al., *A&A*, 604, A30, July 2017
IFU data analysis of from the PMAS IFU demonstrating how a combined analysis of photometry and kinematics helps in revealing the physical nature of bulges.

Co-author (refereed)

11. *Duration and properties of the embedded phase of star formation in 37 nearby galaxies from PHANGS-JWST*
L. Ramambason, ..., **J. Neumann** et al., *A&A*, in press, 2025 (arXiv:2507.01508)
12. *Extreme cloud collisions in nearby barred galaxies*
T. Kolcu, ..., **J. Neumann** et al., *MNRAS*, tmp, 1035, July 2025
13. *Optimizing the analysis of emission lines in galaxies: the case of the MUSE TIMER galaxy NGC 613*
L.A. Silva-Lima, ..., **J. Neumann** et al. *MNRAS*, 540, 2787-2809, July 2025
14. *Gravitational Torques from a Lopsided Young Stellar Component Sustain High Black Hole Accretion in NGC 4593*
N. Winkel, ..., **J. Neumann** et al., *A&A*, in press, 2025 (arXiv:2506.19902)
15. *Simulating nearby disc galaxies on the main star formation sequence II. The gas structure transition in low and high stellar mass discs*
P. Verwilghen, ..., **J. Neumann** et al., *A&A*, in press, 2025 (arXiv:2506.12923)
16. *Bar ages derived for the first time in nearby galaxies: Insights into secular evolution from the TIMER sample*
C. de Sá-Freitas, ..., **J. Neumann** et al., *A&A*, 698, 18, June 2025
17. *The PHANGS-HST-H α Survey: Warm Ionized Gas Physics at High Angular Resolution in Nearby Galaxies with the Hubble Space Telescope*
R. Chandar, ..., **J. Neumann** et al., *AJ*, 169, 150, March 2025
18. *PHANGS-MeerKAT and MHONGOOSE HI observations of nearby spiral galaxies: Physical drivers of the molecular gas fraction, R_{mol}*
C. Eibensteiner, ..., **J. Neumann**, et al., *A&A*, 691, 163, Nov 2024
19. *Schwarzschild modelling of barred $s0$ galaxy NGC 4371*
B. Tahmasebzadeh, ..., **J. Neumann**, et al., *MNRAS*, 534, 861-882, Oct 2024
20. *Neutral atomic and molecular gas dynamics in the nearby spiral galaxies NGC 1512, NGC 4535, and NGC 7496*
S. Laudage, ..., **J. Neumann**, et al., *A&A*, 690, 169, Oct 2024
21. *Discovery of 2200 new supernova remnants in 19 nearby star-forming galaxies with MUSE spectroscopy*
J. Li, ..., **J. Neumann**, et al., *A&A*, 690, 161, Oct 2024

22. *The properties and kinematics of HCN emission across the closest starburst galaxy NGC 253 observed with ALMA*
I. Bešlić, ..., **J. Neumann**, et al., A&A, 689, 122, Sept 2024
23. *PHANGS-JWST: Data-processing Pipeline and First Full Public Data Release*
T. Williams, ..., **J. Neumann**, et al., ApJS, 273, 13, July 2024
24. *Simulating nearby disc galaxies on the main star formation sequence. I. Bar formation and the building of the central gas reservoir*
P. Verwilghen, ..., **J. Neumann**, et al., A&A, 687, 53, July 2024
25. *Impacts of Bar-driven Shear and Shocks on Star Formation*
T. Kim, ..., **J. Neumann**, et al., ApJ, 968, 87, June 2024
26. *PHANGS-ML: Dissecting Multiphase Gas and Dust in Nearby Galaxies Using Machine Learning*
D. Baron, ..., **J. Neumann**, et al., ApJ, 968, 24, June 2024
27. *Hidden Gems on a Ring: Infant Massive Clusters and Their Formation Timeline Unveiled by ALMA, HST, and JWST in NGC 3351*
J. Sun, ..., **J. Neumann**, et al., ApJ, 967, 133, June 2024
28. *A JWST investigation into the bar fraction at redshifts $1 \leq z \leq 3$*
Z.A. Le Conte, ..., **J. Neumann**, et al., MNRAS, 530, 1984-2000, May 2024
29. *Investigating the Drivers of Electron Temperature Variations in H II Regions with Keck-KCWI and VLT-MUSE*
R.J. Rickards Vaught, ..., **J. Neumann** et al., ApJ, 966, 130, May 2024
30. *The universal variability of the stellar initial mass function probed by the TIMER survey*
I. Martín-Navarro, ..., **J. Neumann**, et al., A&A, 684, 110, April 2024
31. *The PHANGS-AstroSat Atlas of Nearby Star-forming Galaxies*
H. Hassani, ..., **J. Neumann**, et al., ApJS, 271, 2, March 2024
32. *The Close AGN Reference Survey (CARS): An Interplay between Radio Jets and AGN Radiation in the Radio-quiet AGN HE0040-1105*
M. Singha, ..., **J. Neumann**, et al., ApJ, 959, 107, Dec 2023
33. *Disc galaxies are still settling. Discovery of the smallest nuclear discs and their young stellar bars*
C. de Sá-Freitas, ..., **J. Neumann**, et al., A&A, 678, 202, Oct 2023
34. *Calibrating mid-infrared emission as a tracer of obscured star formation on H II-region scales in the era of JWST*
F. Belfiore, ..., **J. Neumann**, et al., A&A, 678, 129, Oct 2023
35. *Composite bulges - IV. Detecting signatures of gas inflows in the IFU data: the MUSE view of ionized gas kinematics in NGC 1097*
T. Kolcu, ..., **J. Neumann**, et al., MNRAS, 524, 207-223, Sept 2023.
36. *Still alive and kicking: A significant outburst in changing-look AGN Mrk 1018*
R. Brogan, ..., **J. Neumann**, et al., A&A, 677, 116, Sept. 2023
37. *Fuelling the nuclear ring of NGC 1097*
M.C. Sormani, ..., **J. Neumann**, et al., MNRAS, 523, 2918-2927, Aug 2023

38. *The gas morphology of nearby star-forming galaxies*
S.K. Stuber, ..., **J. Neumann**, et al., *A&A*, 676, 113, Aug 2023
39. *iMaNGA: mock MaNGA galaxies based on IllustrisTNG and MaStar SSPs. II. the catalogue*
L. Nanni, ..., **J. Neumann**, et al., *MNRAS*, 522, 5479-5499, July 2023
40. *Resolved stellar population properties of PHANGS-MUSE galaxies*
I. Pessa, ..., **J. Neumann**, et al., *A&A*, 673, 147, May 2023
41. *A new method for age-dating the formation of bars in disc galaxies: The TIMER view on NGC1433's old bar and the inside-out growth of its nuclear disc*
C. de Sá-Freitas, ..., **J. Neumann**, et al., *A&A*, 671, 8, March 2023
42. *PHANGS-JWST First Results: A combined HST and JWST analysis of the nuclear star cluster in NGC 628*
N. Hoyer, ..., **J. Neumann**, et al., *ApJ*, 944, 25, Feb 2023
43. *The PHANGS-JWST Treasury Survey: Star Formation, Feedback, and Dust Physics at High Angular resolution in Nearby Galaxies*
J.C. Lee, ..., **J. Neumann**, et al., *ApJ*, 944, 17, Feb 2023
44. *PHANGS-JWST First Results: Rapid Evolution of Star Formation in the Central Molecular Gas Ring of NGC1365*
E. Schinnerer, ..., **J. Neumann**, et al., *ApJ*, 944, 15, Feb 2023
45. *PHANGS-JWST First Results: Mid-infrared emission traces both gas column density and heating at 100 pc scales*
A. K. Leroy, ..., **J. Neumann** et al., *ApJ*, 944, 9, Feb 2023
46. *SDSS-IV MaNGA: a catalogue of spectroscopically detected strong galaxy-galaxy lens candidates*
M.S. Talbot, J.R. Brownstein, **J. Neumann**, et al., *MNRAS*, 515, 4953-4980, Oct 2022
47. *iMaNGA: mock MaNGA galaxies based on IllustrisTNG and MaStar SSPs - I. Construction and analysis of the mock data cubes*
L. Nanni, ..., **J. Neumann**, et al., *MNRAS*, 515, 320, Sept 2022
48. *The Close AGN Reference Survey (CARS). Tracing the circumnuclear star formation in the super-Eddington NLS1 Mrk 1044*
N. Winkel, ..., **J. Neumann**, et al., *A&A*, 663, 104, July 2022
49. *The Seventeenth Data Release of the Sloan Digital Sky Surveys: Complete Release of MaNGA, MaStar and APOGEE-2 Data*
Abdurro'uf, ..., **J. Neumann**, et al. (SDSS collab.), accepted in *APJS*, 2021
50. *The Close AGN Reference Survey (CARS). No obvious signature of AGN feedback on star formation, but subtle trends*
I. Smirnova-Pinchukova, ..., **J. Neumann**, et al., *A&A*, 659, 125, March 2022
51. *The Close AGN Reference Survey (CARS). IFU survey data and the BH mass dependence of long-term AGN variability*
B. Husemann, M. Singha, J. Scharwächter, R. McElroy, **J. Neumann**, et al., *A&A*, 659, 124, March 2022

52. *The Close AGN Reference Survey (CARS). Locating the [O III] wing component in luminous local Type 1 AGN*
M. Singha, ..., **J. Neumann**, et al., A&A, 659, 123, March 2022
53. *SDSS-IV MaStar: Fundamental Atmospheric Parameters for the MaNGA Stellar Library*
L. Hill, D. Thomas, C. Maraston, R. Yan, **J. Neumann**, et al., MNRAS, 509, 4308-4329, Jan 2022
54. *NGC 5746: formation history of a massive disc-dominated galaxy*
M. Martig, ..., **J. Neumann**, et al., MNRAS, 508, 2458-2478, Dec 2021
55. *Galaxies within galaxies in the TIMER survey: stellar populations of inner bars are scaled replicas of main bars*
A. Bittner, A. de Lorenzo-Cáceres, D.A. Gadotti, P. Sánchez-Blázquez, **J. Neumann**, et al., A&A, 646, A42, Feb 2021
56. *The chemical properties of the Milky Way's on-bar and off-bar regions: evidence for inhomogeneous star formation history in the bulge*
J. Lian, G. Zasowski, S. Hasselquist, **J. Neumann**, et al., MNRAS, 500, 282-290, Jan 2021
57. *The kinematics of young and old stellar populations in nuclear rings of MUSE TIMER galaxies*
D. Rosado-Belza, ..., **J. Neumann**, et al., A&A, 644, A116 Dec 2020
58. *Kinematic signatures of nuclear discs and bar-driven secular evolution in nearby galaxies of the MUSE TIMER project*
D.A. Gadotti, ..., **J. Neumann**, et al., A&A, 643, A14, Nov 2020
59. *Stellar population models based on the SDSS-IV MaStar library of stellar spectra - I. Intermediate-age/old models*
C. Maraston, ..., **J. Neumann**, et al., MNRAS, 496, 2962-2997, Aug 2020
60. *SDSS-IV MaNGA: spatially resolved star formation in barred galaxies*
A. Fraser-McKelvie, ..., **J. Neumann**, et al., MNRAS, 495, 4158-4169, July 2020
61. *Survival of molecular gas in a stellar feedback-driven outflow witnessed with the MUSE TIMER project and ALMA*
R. Leaman, ..., **J. Neumann**, et al., MNRAS, 488, 3904–3928, Sep 2019
62. *The GIST pipeline: A multi-purpose tool for the analysis and visualisation of (integral-field) spectroscopic data*
A. Bittner, ..., **J. Neumann**, et al., A&A, 628, A117, Aug 2019
63. *Time Inference with MUSE in Extragalactic Rings (TIMER): properties of the survey and high-level data products*
D. A. Gadotti, ..., **J. Neumann**, et al., MNRAS, 482, 506–529, Jan 2019

REFEREES

- Dr. Dimitri Gadotti** PhD supervisor, PhD thesis referee and collaborator
Centre for Extragalactic Astronomy, Department of Physics,
Durham University, Assistant Professor
dimitri.a.gadotti@durham.ac.uk
- Prof. Daniel Thomas** Line manager at ICG and collaborator
Institute for Cosmology and Gravitation (ICG) / School of Mathematics
and Physics (SMAP), University of Portsmouth, Faculty Astronomer
daniel.thomas@port.ac.uk
- Dr. Eva Schinnerer** Head of Group at MPIA and collaborator
Max-Planck-Institute for Astronomy (MPIA), Germany
Faculty Astronomer
schinner@mpia.de
- (Prof. Claudia Maraston) Collaborator
Institute for Cosmology and Gravitation (ICG), University of Portsmouth,
Faculty Astronomer
claudia.maraston@port.ac.uk
- (Prof. Lutz Wisotzki) PhD supervisor, PhD thesis referee
Leibniz-Institut für Astrophysik Potsdam (AIP), Faculty Astronomer
lwisotzki@aip.de
- (Prof. Johan Knapen) PhD thesis referee
Instituto de Astrofísica de Canarias (IAC), Tenerife, Faculty Astronomer
johan.knapen@iac.es