

# Natalia Vale Asari

## Curriculum vitae

Universidade Federal de Santa Catarina (UFSC), Brazil

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### Research interests

- ★ Chemical evolution, star formation and dust attenuation in galaxies.
- ★ Active galactic nuclei and radio jets.
- ★ Computational techniques applied to large galaxy surveys (e.g. spectral synthesis).
- ★ Physical processes in emission line galaxies (via photoionization models and data).

### Professional experience

- 2017–... **Professora Adjunta C** (equivalent to senior lecturer in the UK or associate professor in the US), *Departamento de Física, UFSC, Florianópolis, Brazil.*
- 2018–2019 **Visiting sponsored researcher** (Royal Society–Newton Advanced Fellowship), *School of Physics and Astronomy, University of St Andrews, St Andrews, Scotland, UK.*
- 2014–2017 **Professora Adjunta A** (equivalent to lecturer in the UK or assistant professor in the US), *Departamento de Física, UFSC, Florianópolis, Brazil.*
- 2013–2014 **CNPq Postdoctoral fellow**, *Programa de Pós-Graduação em Física, UFSC, Florianópolis, Brazil, theme: stellar populations in the CALIFA survey.*
- 2011–2013 **CAPES Postdoctoral fellow**, *Institute of Astronomy, University of Cambridge, Cambridge, UK, supervisor: Robert C. Kennicutt, theme: dust attenuation in the CALIFA survey.*
- 2011–2011 **PNPD Postdoctoral fellow**, *Programa de Pós-Graduação em Física, UFSC, Florianópolis, Brazil, independent fellow.*
- 2010–2011 **INCT-A Postdoctoral fellow**, *Programa de Pós-Graduação em Física, UFSC, Florianópolis, Brazil.*

### Honours, awards and PI grants

- 2019 **Carolina Nemes Prize 2019.**  
Prize awarded by the Brazilian Physical Society (Sociedade Brasileira de Física) to early-career female physicists.
- 2018–... **Royal Society–Newton Advanced Fellowship**, NAF\R1\180403.  
Awarded to establish a collaboration with Dr Vivienne Wild (co-PI), Univ. of St Andrews, on dust attenuation, multiwavelength data, post-starburst and rare objects. Grant of £ 47,200 (~€ 53,000) for computers, training costs, and multilateral visits by the PI, co-PI, PhD students and postdocs. Training: completed Aurora, a leadership development initiative for women by Advance HE.
- 2015–2018 **CAPES–Science without borders Grant**, CAPES/PVE 88881.068116/2014-01.  
Collaboration with Observatoire de Paris. Grant of R\$ 150,000 (~€ 38,000 in 2015) for equipment and observation trips; R\$ 90,000 (~€ 23,000) for a Special Visiting Researcher (Dr Grażyna Stasińska, Obs. de Paris) to cover 6 work missions to UFSC; R\$ 147,600 (~€ 37,000) of stipend for 3 postdoc fellows; € 25,000 for a PhD 'sandwich' (one-year visit) at Observatoire de Paris.
- 2017 **Funding for the NEBULATOM 3 school**, <https://eventos.redclara.net/e/nebulatom3>.  
R\$ 5,000 (~€ 1,400 in 2017) from Conselho Nacional de Desenvolvimento Científico e Tecnológico (CNPq/APQ); R\$ 15,000 (~€ 4,400) from Coordenação de Aperfeiçoamento de Pessoal de Nível Superior (CAPES/PAEP).

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## Other grants and collaborations

- 2017–... **FAPESC joint project: Computational Physics: from Quarks to Galaxies (PI: Emmanuel Gräve de Oliveira)**, *Departamento de Física, UFSC*.  
Co-PI of a joint multi-disciplinary project by 7 early-career professors in the Physics Department working on computational methods in Physics. Grant from Fundação de Amparo à Pesquisa e Inovação do Estado de Santa Catarina (FAPESC) of R\$ 87,217.50 (~€ 25,000 in 2017) towards a small cluster (1 server + 10 nodes), switch, no-break, printer, 7 personal computers, backup drives, and visits from external researchers aiming at training graduate students in computational methods. I have organised a series of lectures by Prof Laerte Sodré (IAG/USP, Brazil) in 2018 on Data Analysis in Astronomy (<https://astro.ufsc.br/post/event/minicurso2018/>).
- 2014–2017 **Polish National Science Centre project: Why only certain quasars are radio-loud? (PI: Dorota Koziel-Wierzbowska)**, *Jagiellonian University, Poland*.  
Member of the project along with Marek Sikora (CAMK, Poland) and Grażyna Stasińska (Obs. de Paris). Grant: 7 travel missions to Poland/France for group meetings and computers for the 4 faculty members.
- 2007–2010 **CAPES/COFECUB grant: Galaxy paleontology (PIs: Roberto Cid Fernandes Jr / Grażyna Stasińska)**, *UFSC / Observatoire de Paris*.  
Member of the project led by both PhD advisors; later on participation as a postdoc. PhD ‘sandwich’ grant to work 15 months at Observatoire de Paris (2008–2009); double degree awarded under a cotutelle agreement; 1 work mission at Obs. de Paris as a postdoc fellow in 2010.
- 2003–2014 **Other grants (mostly to present works at conferences or workshops)**.  
CNPq (especially via an individual PhD grant which funded travel and equipment), undergraduate and postgraduate travel funds from UFSC, IAU, XVIII and XXIII Canary Islands Winter Schools (IAC, Spain), PUC (Santiago, Chile), Guillermo Haro 2013 Workshop (INAOE, Mexico), Carnegie Observatories, UNAM/Mexico (PI: Christophe Morisset), Lorentz Center (Leiden, the Netherlands).

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## Education

- 2010 **Ph.D. Physics/Astrophysics**, *UFSC*, Florianópolis, Brazil, advisor: Roberto Cid Fernandes Jr, thesis: Chemical evolution and star formation history in the local Universe.
- 2010 **Ph.D. Astronomy and Astrophysics (cotutelle; double degree)**, *Observatoire de Paris*, Meudon, France, advisor: Grażyna Stasińska.  
Visit of 15 months to Paris funded by a CAPES–COFECUB PhD ‘sandwich’ grant. Double PhD degree awarded under a cotutelle agreement between UFSC and Observatoire de Paris.
- 2006 **M.Sc. Physics/Astrophysics**, *UFSC*, Florianópolis, Brazil, Advisor: Roberto Cid Fernandes Jr, thesis: Stellar kinematics and galaxy evolution.
- 2004 **B.Sc. Physics**, *UFSC*, Florianópolis, Brazil.  
With Honours (Diploma de Mérito Estudantil).

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## Advising and supervising

- Current MSc advisor: **Janayna de Souza Mendes** (2021–...); **Luis Eduardo Fritsch** (2021–...). Undergraduate research project advisor: **Maria Eduarda Ramos Pedro** (2021–...); **Lis Cristine Fortes** (2021–...).
- Former Post-doctoral supervisor: **André Luiz de Amorim** (2016–2018); **Fábio Herpich** (2017); **Marielli Schlickmann** (2017). MSc advisor: **Katia Slodkowski Clerici** (2018–2020); **Thomas Zerrenner Flório** (2016–2018). MSc co-advisor: **William Schoenell** (2010–2012). Undergraduate research project advisor: **Janayna de Souza Mendes** (2020–2021); **Maori Filippini** (2018); **Elisa Iahn Goettems** (2014–2018); **Rafael Pacheco Cardoso** (2014–2016). BSc final project advisor: **Elisa Iahn Goettems** (2017).

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## Teaching experience

- 2015–... **Astrophysics lectures for postgraduate Physics students, UFSC.**  
Radiative problems in Astrophysics (4 credits) [joint course with another faculty member; emphasis of my share on nebular processes].
- 2014–... **Physics theoretical lectures for undergraduate students, UFSC.**  
Physics 1 for Physics (6 credits) and Engineering students (4 credits) [remote tools developed: recorded and live lectures, Moodle and Itempool activities, science outreach content creation by students; 2 first terms on my own; 2 other terms with other professors]; Physics 2 for Engineering students (4 credits); Physics 4 for Physics (6 credits) and Engineering students (4 credits).
- 2014–... **Physics laboratory courses for undergraduate Engineering students, UFSC.**  
Experimental Physics 1 (2 and 3 credits) [collective course with other faculty members].
- 2020 **SIGNALS photoionization classes, online.**  
Lectures: (1) A quick start guide to BOND: A quantum of solace for nebular abundance determinations; (2) Correcting emission lines for dust attenuation (or: the need to overthink).
- 2019 **Guest seminar, Univ. St Andrews, UK, Dr Rita Tojeiro's undergraduate astronomy class.**
- 2017 **Nebulatom 3, Baia Formosa, RN, Brazil.**  
Lectures: (1) Principles of Inverse Population Synthesis; (2) Spectral synthesis with STARLIGHT, (3) Combining emission lines and STARLIGHT, (4) Hands-on activities.
- 2010 **Astrophysics introductory seminars for undergraduate Physics students, UFSC.**  
In-person seminars and astronomical observations at distance-learning hubs (short-term contract).
- 2000–2003 **English as a Second Language, Wisdom, Brasília (DF) / São José (SC), Brazil.**

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## Administrative experience

- 2021–... **Sub-coordinator of the Postgraduate Program in Physics, UFSC.**  
I have taken responsibility for training a new administrative secretary to deal with students admission, enrollment, fellowships, and the evaluation by the national body accreditation and ranking of Brazilian Postgraduate Programs.
- 2021–... **Structuring Teaching Group of the Bachelor's Degree in Physics, UFSC.**  
Member of the group responsible for remodelling the BSc in Physics curriculum to add mandatory science outreach activities, according to a 2018 resolution by the Ministry of Education.
- 2016–2020 **Member or president of admission calls, Postgraduate Program in Physics, UFSC.**  
3 MSc/PhD admission calls, 3 studentship allocation committees, 2 postdoc selection processes.
- 2017–2021 **Astrophysics faculty representative in the Delegate Collegiate of Postgraduate Program in Physics, UFSC, substitute until 2020, titular from 2020 onwards.**
- 2016–2018 **Member of the Outreach Committee of the Physics Department, UFSC.**

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## Academic service

- 2020–... **Member, SOAR Brazilian programs committee for time allocation.**
- 2020–... **Mentor, The Supernova Foundation, <https://supernovafoundation.org>.**  
Personal mentorship for women students in Physics (up to two current mentees).
- 2013–... **Member of MSc/PhD defenses and qualifying exam panels, 6 MSc, 3 PhD, and 6 qualifying exam panels, UFSC; UFRGS; UFSM.**
- 2009–... **Referee, Monthly Notices of the Royal Astronomical Society (2009–...), Caderno Brasileiro de Ensino de Física (2013), The Astrophysical Journal (2019–...).**
- 2021 **Ad hoc referee, CNPq (National Council for Scientific and Technological Development).**
- 2013–2020 **Ad hoc referee, SOAR–CFHT Brazilian committee for time allocation.**

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## Public outreach

- 2019–... **Mulheres na Ciência (Women in Science)**, <http://youtube.com/c/mulheresnaciencia>.  
Script writer and presenter of a few science outreach videos (in Portuguese); YouTube channel coordinated by Prof Débora Peres Menezes (UFSC).
- 2016–... **TUIMP (The Universe in My Pocket)**, <http://tuimp.org>.  
Member of project and translator of TUIMP booklets, aimed at explaining astronomy concepts to school children in several languages.
- 2016–... **Clube dos Telescópios (Telescope Club)**, *UFSC*, <https://telescopios.ufsc.br>.  
Coordinator (up to 2018) and member (from 2018 on) of the project, which teaches school children how to build a simple telescope with inexpensive parts. Undergraduate students supervised: Elismar Losch (2018); Osmar dos Santos Neto (2017).
- 2016–... **De Olho no Céu de Floripa (Eye on the skies of Floripa)**, *UFSC*, <https://observatorio.ufsc.br>.  
Member of the project held at UFSC astronomical observatory. A 25-cm Meade and a 30-cm robotic telescope are available for weekly open nights and scheduled school visitations. Some activities hosted in collaboration with the UFSC planetary, coordinated by the Geography Department.

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## Computing tools and skills

- Open source Developer of BOND: Bayesian Oxygen and Nitrogen abundance Determinations (<http://bond.ufsc.br/>). BOND infers oxygen and nitrogen abundances in giant H II regions by comparison to a large grid of photoionization models using strong and semi-strong lines.
- Open source Supervising developer of DOBBY: a free emission line fitting code suitable for integral field spectroscopy data (IFS) available at <https://bitbucket.org/streeto/pycasso2>. Mainly developed by MSc students Thomas Flórido and Katia Clerici, and by the then postdoc Dr André Luiz de Amorim.
- Advanced Python, Fortran (2003 and 77), supermongo.  
Basic R, C++, IDL, root, iraf, MySQL, php, HTML, CSS.

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## Languages

- Portuguese native
- English fluent *Certificate of Proficiency in English, University of Cambridge, 2000*
- French intermediate *Test d'évaluation linguistique, Alliance Française, Florianópolis, 2007*
- Italian basic
- Spanish basic
- Polish very basic

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## Conference organisation

- June 2019 **Stellar populations in the era of ELTs: advances over the next decade and beyond (EWASS special session)**, *Lyon, France*, member of the scientific organising committee, <https://eas.unige.ch/EWASS2019/session.jsp?id=SS12>.
- October 2017 **The cosmic feast of the elements: A conference to celebrate the work of Grażyna Stasińska**, *Puebla, Mexico*, co-chair of the scientific advisors, <https://sites.google.com/a/astro.unam.mx/grazyna2017/>.
- May 2017 **NEBULATOM 3: A school for Latin American astronomers on emission-line objects in the Universe**, *Baía Formosa (RN), Brazil*, co-organizer and co-chair, <https://eventos.redclara.net/event/343/>.

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## Scientific talks (selected)

- April 2021 **[Invited] The role of the smallest stars and diffuse gas for studies of galaxy evolution (in Portuguese)**, *INPE's Astrophysics Division Online Seminars*, National Institute for Space Research, São José dos Campos (SP), Brazil (online).
- October 2020 **[Invited] The dark and diffuse side of galaxies (in Portuguese)**, *Astronomy and Astrophysics Coordination Colloquia (COAA) of the National Observatory (Ministry of Science and Technology)*, COAA, Observatório Nacional Rio de Janeiro (RJ), Brazil (online).
- August 2020 **[Invited] The Microphysics of Galaxies: Connecting the evolution of galaxies and the formation of chemical elements in the Universe (in Portuguese)**, *IFGW–Unicamp Colloquium*, Physics Institute, Unicamp, Campinas (SP), Brazil (online).
- March 2020 **[Invited] How the diffuse interstellar medium in galaxies (DIG) influences your results**, *IAUS 359: Galaxy Evolution and Feedback Across Different Environments (GalFeed)*, Bento Gonçalves (RS), Brazil.
- June 2019 **The role of the diffuse ionized gas in the  $M-Z-SFR$  relation.**, *Resolving the Ionized ISM (Symposium S8, EWASS 2019)*, Lyon, France.
- April 2018 **[Invited] A quick introduction to BOND: Bayesian Oxygen and Nitrogen abundance Determinations in giant H II regions**, *Ciclo de Seminários do Departamento de Astronomia da Universidade Federal do Rio Grande do Sul*, UFRGS, Porto Alegre, Brazil.
- February 2017 **BOND: Bayesian Oxygen and Nitrogen abundance Determinations**, *OAUJ Friday seminars*, Obserwatorium Astronomiczne Uniwersytetu Jagiellońskiego, Krakow, Poland.
- May 2016 **[Invited] BOND: A quantum of solace for nebular abundance determinations**, *Colóquios de astrofísica no IAG USP*, IAG, USP, São Paulo, Brazil.
- February 2016 **Semi-empirical analysis of SDSS galaxies: The SEAGal view (presenters: N. Vale Asari and G. Stasińska)**, *Seminarium ogólna*, Toruń Centre for Astronomy, Uniwersytet Mikołaja Kopernika.
- September 2015 **Uncovering dust attenuation with spectral synthesis**, *Modelling galaxies through cosmic times workshop*, Cambridge, UK.
- July 2015 **[Invited] BOND (Bayesian Oxygen and Nitrogen abundance Determinations): Strong line abundance determinations may lead to fake relations. 2015**, *Understanding Nebular Emission in High-Redshift Galaxies: Massive Stars, Chemical Abundances, and Photoionization Modeling workshop*, Carnegie Symposium in honor of Leonard Searle, Pasadena, USA.

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## Publications

75 publications, of which 35 accepted articles in peer reviewed international journals, or 33 excluding survey presentation and data release papers. Statistics from NASA/ADS:

- h-index = 23
- Total citations = 2738
- h-index (excluding survey presentations) = 22
- Total citations (excluding survey presentations) = 2568

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## Peer-reviewed publications

- [1] Carter Lee Rhea, Laurie Rousseau-Nepton, Simon Prunet, Julie Hlavacek-Larrondo, R. Pierre Martin, Kathryn Grasha, **Vale Asari, Natalia**, Théophile Bégin, Benjamin Vigneron, and Myriam Prasow-Émond. A Machine Learning Approach to Integral Field Unit Spectroscopy Observations: III. Disentangling Multiple Components in H II regions. *arXiv e-prints*, page arXiv:2110.00569 (ApJ accepted), October 2021.
- [2] Carter Rhea, Laurie Rousseau-Nepton, Simon Prunet, Myriam Prasow-Émond, Julie Hlavacek-Larrondo, **Vale Asari, Natalia**, Kathryn Grasha, and Laurence Perreault-Levasseur. A Machine-learning Approach to Integral Field Unit Spectroscopy Observations. II. H II Region Line Ratios. *ApJ*, 910(2):129, April 2021.
- [3] D. Koziel-Wierzbowska, **Vale Asari, N.**, G. Stasińska, F. R. Herpich, M. Sikora, N. Żywucka, and A. Goyal. Identifying Radio-active Galactic Nuclei among Radio-emitting Galaxies. *ApJ*, 910(1):64, March 2021.
- [4] **Vale Asari, N.**, V. Wild, A. L. de Amorim, A. Werle, Y. Zheng, R. Kennicutt, B. D. Johnson, M. Galametz, E. W. Pellegrini, R. S. Klessen, S. Reissl, S. C. O. Glover, and D. Rahner. Less than the sum of its parts: the dust-corrected H  $\alpha$  luminosity of star-forming galaxies explored at different spatial resolutions with MaNGA and MUSE. *MNRAS*, 498(3):4205–4221, August 2020.
- [5] Ariel Werle, Roberto Cid Fernandes, **Vale Asari, Natalia**, Paula R. T. Coelho, Gustavo Bruzual, Stephane Charlot, Reinaldo R. de Carvalho, Fábio R. Herpich, Cláudia Mendes de Oliveira, Jr. Sodré, Laerte, Daniel Ruschel Dutra, André de Amorim, and Vitor M. Sampaio. Clues on the history of early-type galaxies from SDSS spectra and GALEX photometry. *arXiv e-prints*, page arXiv:2007.01314, July 2020.
- [6] **Vale Asari, N.**, G. S. Couto, R. Cid Fernandes, G. Stasińska, A. L. de Amorim, D. Ruschel-Dutra, A. Werle, and T. Z. Florido. Diffuse ionized gas and its effects on nebular metallicity estimates of star-forming galaxies. *MNRAS*, 489(4):4721–4733, November 2019.
- [7] L. Rousseau-Nepton, R. P. Martin, C. Robert, L. Drissen, P. Amram, S. Prunet, T. Martin, I. Moumen, A. Adamo, A. Alarie, P. Barmby, A. Boselli, F. Bresolin, M. Bureau, L. Chemin, R. C. Fernandes, F. Combes, C. Crowder, L. Della Bruna, S. Duarte Puertas, F. Egusa, B. Epinat, V. F. Ksoll, M. Girard, V. Gómez Llanos, D. Gouliermis, K. Grasha, C. Higgs, J. Hlavacek-Larrondo, I. T. Ho, J. Iglesias-Páramo, G. Joncas, Z. S. Kam, P. Karera, R. C. Kennicutt, R. S. Klessen, S. Lianou, L. Liu, Q. Liu, A. Luiz de Amorim, J. D. Lyman, H. Martel, B. Mazzilli-Ciraulo, A. F. McLeod, A. L. Melchior, I. Millan, M. Mollá, R. Momose, C. Morisset, H. A. Pan, A. K. Pati, A. Pellerin, E. Pellegrini, I. Pérez, A. Petric, H. Plana, D. Rahner, T. Ruiz Lara, L. Sánchez-Menguiano, K. Spekkens, G. Stasińska, M. Takamiya, **Vale Asari, N.**, and J. M. Vílchez. SIGNALS: I. Survey description. *MNRAS*, 489(4):5530–5546, November 2019.
- [8] A. Werle, R. Cid Fernandes, **Vale Asari, N.**, G. Bruzual, S. Charlot, R. Gonzalez Delgado, and F. R. Herpich. Simultaneous analysis of SDSS spectra and GALEX photometry with STARLIGHT: method and early results. *MNRAS*, 483:2382–2397, February 2019.
- [9] F. Herpich, G. Stasińska, A. Mateus, **Vale Asari, N.**, and R. Cid Fernandes. Why do many early-type galaxies lack emission lines? I. Fossil clues. *MNRAS*, 481:1774–1785, December 2018.

- [10] R. López Fernández, R. M. González Delgado, E. Pérez, R. García-Benito, R. Cid Fernandes, W. Schoenell, S. F. Sánchez, A. Gallazzi, P. Sánchez-Blázquez, **Vale Asari, N.**, and C. J. Walcher. Cosmic evolution of the spatially resolved star formation rate and stellar mass of the CALIFA survey. *A&A*, 615:A27, July 2018.
- [11] E. A. D. Lacerda, R. Cid Fernandes, G. S. Couto, G. Stasińska, R. García-Benito, **Vale Asari, N.**, E. Pérez, R. M. González Delgado, S. F. Sánchez, and A. L. de Amorim. Diffuse ionized gas in galaxies across the Hubble sequence at the CALIFA resolution. *MNRAS*, 474:3727–3739, March 2018.
- [12] R. García-Benito, R. M. González Delgado, E. Pérez, R. Cid Fernandes, C. Cortijo-Ferrero, R. López Fernández, A. L. de Amorim, E. A. D. Lacerda, **Vale Asari, N.**, and S. F. Sánchez. The spatially resolved star formation history of CALIFA galaxies. Cosmic time scales. *A&A*, 608:A27, December 2017.
- [13] R. M. González Delgado, E. Pérez, R. Cid Fernandes, R. García-Benito, R. López Fernández, **Vale Asari, N.**, C. Cortijo-Ferrero, A. L. de Amorim, E. A. D. Lacerda, S. F. Sánchez, M. D. Lehnert, and C. J. Walcher. Spatially-resolved star formation histories of CALIFA galaxies. Implications for galaxy formation. *A&A*, 607:A128, November 2017.
- [14] A. L. de Amorim, R. García-Benito, R. Cid Fernandes, C. Cortijo-Ferrero, R. M. González Delgado, E. A. D. Lacerda, R. López Fernández, E. Pérez, and **Vale Asari, N.** The PyCASSO database: spatially resolved stellar population properties for CALIFA galaxies. *MNRAS*, 471:3727–3752, November 2017.
- [15] D. Koziel-Wierzbowska, **Vale Asari, N.**, G. Stasińska, M. Sikora, E. I. Goettems, and A. Wójtowicz. What Distinguishes the Host Galaxies of Radio-loud and Radio-quiet AGNs? *ApJ*, 846:42, September 2017.
- [16] S. F. Sánchez, R. García-Benito, S. Zibetti, C. J. Walcher, B. Husemann, M. A. Mendoza, L. Galbany, J. Falcón-Barroso, D. Mast, J. Aceituno, J. A. L. Aguerri, J. Alves, A. L. Amorim, Y. Ascasibar, D. Barrado-Navascues, J. Barrera-Ballesteros, S. Bekeraïtè, J. Bland-Hawthorn, M. Cano Díaz, R. Cid Fernandes, O. Cavichia, C. Cortijo, H. Dannerbauer, M. Demleitner, A. Díaz, R. J. Dettmar, A. de Lorenzo-Cáceres, A. del Olmo, A. Galazzi, B. García-Lorenzo, A. Gil de Paz, R. González Delgado, L. Holmes, J. Iglésias-Páramo, C. Kehrig, A. Kelz, R. C. Kennicutt, B. Kleemann, E. A. D. Lacerda, R. López Fernández, A. R. López Sánchez, M. Lyubenova, R. Marino, I. Márquez, J. Mendez-Abreu, M. Mollá, A. Monreal-Ibero, R. Ortega Minakata, J. P. Torres-Papaqui, E. Pérez, F. F. Rosales-Ortega, M. M. Roth, P. Sánchez-Blázquez, U. Schilling, K. Spekkens, **Vale Asari, N.**, R. C. E. van den Bosch, G. van de Ven, J. M. Vilchez, V. Wild, L. Wisotzki, A. Yıldırım, and B. Ziegler. CALIFA, the Calar Alto Legacy Integral Field Area survey. IV. Third public data release. *A&A*, 594:A36, October 2016.
- [17] F. Herpich, A. Mateus, G. Stasińska, R. Cid Fernandes, and **Vale Asari, N.** The many faces of LINER-like galaxies: a WISE view. *MNRAS*, 462:1826–1833, October 2016.
- [18] **Vale Asari, N.**, G. Stasińska, C. Morisset, and R. Cid Fernandes. BOND: Bayesian Oxygen and Nitrogen abundance Determinations in giant H II regions using strong and semistrong lines. *MNRAS*, 460:1739–1757, August 2016.
- [19] R. M. González Delgado, R. Cid Fernandes, E. Pérez, R. García-Benito, R. López Fernández, E. A. D. Lacerda, C. Cortijo-Ferrero, A. L. de Amorim, **Vale Asari, N.**, S. F. Sánchez, C. J. Walcher, L. Wisotzki, D. Mast, J. Alves, Y. Ascasibar, J. Bland-Hawthorn, L. Galbany,

- R. C. Kennicutt, I. Márquez, J. Masegosa, M. Mollá, P. Sánchez-Blázquez, and J. M. Vílchez. Star formation along the Hubble sequence. Radial structure of the star formation of CALIFA galaxies. *A&A*, 590:A44, May 2016.
- [20] R. López Fernández, R. Cid Fernandes, R. M. González Delgado, **Vale Asari, N.**, E. Pérez, R. García-Benito, A. L. de Amorim, E. A. D. Lacerda, C. Cortijo-Ferrero, and S. F. Sánchez. Simultaneous spectroscopic and photometric analysis of galaxies with STARLIGHT: CALIFA+GALEX. *MNRAS*, 458:184–199, May 2016.
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