

Rogério Monteiro-Oliveira *Ph.D.*

Observational Astrophysicist

✉ rmo@on.br
🌐 monteiro-oliveira.com

🌀 large scale structure assembly 🌀 galaxy clusters 🌀 superclusters of galaxies 🌀 galaxy evolution 🌀 weak gravitational lensing

ORCID ADS Google Scholar ResearchGate LinkedIn

🏛️ Current Position

National Observatory (Observatório Nacional, ON/MCTI)

Research fellow (Pesquisador Adjunto I)

2025 –

Rio de Janeiro, Brazil

State University of Santa Cruz (UESC)

Member of the graduate program in Physics

2020 –

Ilhéus, Brazil

📅 Work Experience

Academia Sinica Institute of Astronomy and Astrophysics (ASIAA)

Postdoc fellow

2021 – 2025

Taipei, Taiwan

> Research, outreach

State University of Santa Cruz (UESC)

Visiting Professor

2020 – 2021

Ilhéus, Brazil

> Teaching, research, outreach

University of São Paulo - Institute of Astronomy, Geophysics and Atmospheric Sciences (IAG/USP)

Assistant Professor

2020 – 2020

São Paulo, Brazil

> Teaching

University of São Paulo - Institute of Astronomy, Geophysics and Atmospheric Sciences (IAG/USP)

Postdoc fellow

2016 – 2020

São Paulo, Brazil

> Research, outreach

Federal University of Rio Grande do Sul - Astronomy Department of the Institute of Physics (IF/UFRGS)

Assistant Professor

2017 – 2018

Porto Alegre, Brazil

> Teaching, research, outreach

🎓 Education

Ph.D. in Astronomy

2011 – 2016

University of São Paulo - Institute of Astronomy, Geophysics and Atmospheric Sciences (IAG/USP)

São Paulo, Brazil

> Thesis: *Uma contribuição ao estudo de aglomerados de galáxias em fusão* (A contribution to the study of merging galaxy clusters)

> Advisor: Prof. Eduardo S. Cypriano

> Funded by Conselho Nacional de Desenvolvimento Científico e Tecnológico (CNPq)

M.S. in Astronomy

2009 – 2011

University of São Paulo - Institute of Astronomy, Geophysics and Atmospheric Sciences (IAG/USP)

São Paulo, Brazil

> Thesis: *Aglomerados de galáxias em fusão* (Merging galaxy clusters)

> Advisor: Prof. Eduardo S. Cypriano

> Funded by Coordenação de Aperfeiçoamento de Pessoal de Nível Superior (CAPES)

B.S. in Physics

2022 –

University of São Paulo - Institute of Physics (IFUSP)

São Paulo, Brazil

> Monograph: *Geografia e ecologia das galáxias em superaglomerados* (Geography and ecology of galaxies in superclusters)

> Advisor: Prof. Laerte Sodré Jr.

👥 Major Collaborations

Ultimate Subaru

2024 –

Member

PFS Sumire

2022 –

Member

LSST

2021 –

Member

Hyper Suprime Camera Survey

2021 –

Member

Dark Energy Survey

2021 –

External collaborator

Javalambre Physics of the Accelerating Universe (JPAS)

2009 – 2020

Member

👤 Community Service

SOAR Telescope <i>Member of the Brazilian Time Allocation Committee</i>	2025 –
International Journal of Machine Learning and Cybernetics <i>Paper referee</i>	2024 –
HST Call for Proposals (Cycle 31) <i>Reviewer</i>	2023
James C. Maxwell Telescope Time Allocation Committee <i>Reviewer</i>	2022
The Astrophysical Journal <i>Paper referee</i>	2019 –
Monthly Notices of the Royal Astronomical Society <i>Paper referee</i>	2019 –

🕒 Accepted Proposals for Observation

👤 PI

- > Blanco (1/2 night @ DECam): Mapping Dark Matter in a Rare, Complex Triple Radio Relic Cluster. 2025.
- > Magellan/Clay (1 night @ MegaCam): Weak Lensing Follow-up of Massive Merging Clusters Recently Discovered by eROSITA All-Sky Survey Data Release 1. 2025.
- > Magellan/Baade (1 night @ IMACS): Unveiling Dark Matter in Massive Merging Clusters Revealed by eROSITA All-Sky Survey Data Release 1. 2025.
- > Subaru (7.3 h @ HSC): Mapping the dark matter distribution in highly massive merging clusters newly discovered by eROSITA. 2025.
- > Magellan/Baade (1 night @ IMACS): Weak lensing mass reconstruction of a sample of highly disturbed merging clusters recently discovered by eROSITA. 2024.
- > Blanco (1.5 nights @ DECam): Weak lensing mass reconstruction of a sample of highly disturbed merging clusters recently discovered by eROSITA. 2024.
- > Magellan/Clay (0.5 night M2FS): Scaling up our understanding of large structure formation: connecting the BCGs to superclusters. 2023.
- > CFHT (1.3 h @ WIRCam): Are high redshift ($z > 1.4$) galaxy cluster detections real? 2023.
- > CFHT (2.6 h @ WIRCam): Breaking the natural barrier: detecting galaxy clusters at $z > 1.4$. 2022.
- > CFHT (13.6 h @ MegaCam): Reconstruction of the mass field in Hercules supercluster using weak gravitational lensing. 2022.
- > Gemini (28.5 h @ GMOS/S): Witnessing the formation of the large-scale structure: a dynamical study of massive galaxy clusters undergoing extreme mergers. 2021.
- > Gemini (7.7 h @ GMOS/S): Imaging and spectroscopy of the merging galaxy cluster candidate SPT-CL J0411. 2017.
- > Gemini (3.5 hours @ GMOS/S): Spectroscopy follow up of the merging galaxy cluster A2034. 2013.

👤 Corresponding author

- > Gemini (12.6 h @ GMOS/N): Do the BCGs born special or do they become it? PI: R. Dalal. 2023.
- > Gemini (3.9 h @ GMOS/N): Witnessing the birth of a giant: spectroscopic observations of the merging galaxy cluster A1758S. PI: R. Machado. 2023.
- > Blanco (1 night @ DECam): Investigating a bullet-like merging galaxy cluster caught in an early phase of interaction. PI: E. Cypriano. 2022.
- > Gemini (22.9 h @ GMOS/N): First Characterization of Superclusters detected in the Subaru Hyper Suprime-Cam Survey. PI: R. Dalal. 2022.

👤 Co-PI

- > JWST Cycle 3 (22.4 h @ NIRSPEC NIRCAM): Measuring the form of the IMF in passive galaxies at $z = 1.2$. PI: A. Gonzalez. 2024.
- > Magellan/Baade (1 night @ FourStar): BCGs: Nature vs. Nurture? PI: R. Dalal. 2024.
- > HST Cycle 30 (5 orbits @ ACS/WFC): Clash of Titans: Characterizing SPT-CLJ0307-6225, a major merger in the plane of the sky. PI: A. Zenteno. 2022.
- > Gemini (5.5 h @ GMOS/S): A dynamical study of massive galaxy clusters at $z > 0.6$ undergoing extreme mergers. PI: R. Carrasco. 2022.
- > Gemini (6.5 h @ GMOS/S): Follow-up of the newly discovered cluster J2305-2248, an “El Gordo” lookalike. PI: E. Cypriano. 2022.
- > MMT (1 night @ MMIRS): Exploration of star formation activity in galaxy clusters at $z \sim 1.5$. PI: Y.-T. Lin. 2022.
- > Blanco (1 night @ DECam): Evolving galaxies in evolving environments: Searching for jellyfish galaxies in merging clusters. PI: K. Kelkar. 2022.
- > GMRT (8 h): Diffuse radio emission from the sloshing cluster Abell 1644 and its connection to ram-pressure stripping. PI: K. Kelkar. 2022.
- > CFHT (11.5 h @ MegaCam): Weak lensing mass reconstruction of the supercluster of galaxies SC0028-0001. PI: G. Lima Neto. 2010.

📖 Student Advising

Giovanna Oliveira » Undergraduate student (IFF; ON/MCTI) > Gravitational Lensing with JWST: A New Era in Cosmic Mass Mapping	ongoing
Ryusei Kano » Summer student program (ASIAA) > The power of a semi-analytical 2-body description for describing galaxy cluster merger	2024
Dionysios Gakis » Summer student program (ASIAA) > Anatomy of a giant: investigating environment effects in the Saraswati supercluster	2022
Vitor Hugo Yukio Fugivala » Master's student (UESC) > Structure and dynamics of the Hercules supercluster	2022 - 2024
Thierry Oliveira Candido » Undergraduate student (Federal Institute of Mato Grosso do Sul) > Mapping the Universe in large scale	2019 - 2020
Ronaldo Roca Flores » Undergraduate student (Federal Institute of Mato Grosso do Sul) > Mapping the Universe in large scale	2019 - 2020

📖 Teaching

UESC » Professor 2 Physics courses	2020 - 2021
IAG/USP » Professor 2 Astronomy courses	2020
IF/UFRGS » Professor 5 Astronomy courses	2017 - 2018
IAG/USP » Teaching assistant 6 Astronomy courses	2012 - 2015
University Braz Cubas » Lecturer 1 Physics course	2011

💬 Colloquia & Seminars

Federal University of Espírito Santo (Cosmo-UFES), Vitória, Brazil » Invited Seminar > Extreme Cosmic Collisions: What Merging Galaxy Clusters Reveal About the Nature of Dark Matter?	Oct., 2025
Valongo Observatory (OV/UFRJ), Rio de Janeiro, Brazil » Invited Seminar > Breaking the Dichotomy: MaNGA's Insights into Elliptical Galaxy Classification	Jun., 2025
Korea Astronomy and Space Science Institute (KASI), Daejeon, Korea » Invited Seminar > A Review of Elliptical Galaxy Classification: Ruling Out the Dichotomy Scenario	Nov., 2024
National Institute of Physics, Quezon City, Philippines » Invited Seminar > Merger of Galaxy Clusters: The Largest Particle Colliders in the Universe and Their Implications for Micro and Macro Physics	Oct., 2024
Istituto Nazionale di Fisica Nucleare, Turin, Italy » Weekly Seminar > Seeing the micro through the macro: collisions among galaxy clusters and their impact on dark matter properties investigation	Oct., 2023
National Central University, Taoyuan, Taiwan » Weekly Colloquia > Connecting Macro to Micro: How can studying the largest structures in the universe help us unveil the nature of dark matter?	Oct., 2022
ASIAA, Taipei, Taiwan » Weekly Colloquium > Galaxy Clusters: the Largest Laboratories in the Universe	Nov., 2021
UESC, Ilhéus, Brazil » Special Seminar > Aglomerados de galáxias: os maiores laboratórios do Universo	Jun., 2018

Universidade Cruzeiro do Sul, São Paulo, Brazil

May 2018

» Weekly Seminar

> C.S.I. (Cluster Science Investigation): solving the case of a cosmic crash

IF/UFRGS, Porto Alegre, Brazil

Jun., 2017

» Weekly Seminar

> Unveiling the Universe dark side through the merging galaxy clusters

📈 Conferences

XLVIII Annual Meeting of the Brazilian Astronomical Society

Sep., 2025

📍 Caxambu, Brazil 🗣️ Challenging the Dichotomy of Elliptical Galaxies with MaNGA)

Galaxy Memoirs: Inferring their Past from their Present

Aug., 2025

📍 Armação dos Búzios, Brazil 🗣️ Revisiting Elliptical Galaxies: No Evidence for a Dichotomy (oral contribution)

11th KIAS Workshop on Cosmology and Structure Formation

Oct., 2024

📍 Gyeongju, Korea 🗣️ No evidence of a dichotomy in the elliptical galaxy population (poster) & The impact of weak lensing mass bias on the kinematic description of merging galaxy clusters (oral contribution)

10th Galaxy Evolution Workshop

Aug., 2024

📍 Taipei, Taiwan 🗣️ Can the dichotomy scenario explain the observed variety of elliptical galaxies? (oral contribution)

The Second SUPER-IRNET Workshop: Sparkling Our Collaboration at the Cosmic Gate

Jul., 2024

📍 Beppu, Japan 🗣️ Breaking the natural barrier: how reliable is cluster detection beyond $z = 1.4$? (oral contribution)

Galaxy Groups in the Era of eROSITA and Euclid

Jul., 2024

📍 Sesto, Italy 🗣️ From photons to bytes: combining multiple wavelengths and numerical simulations to describe the large scale structure formation (oral contribution)

First Structures in the Universe

Jun., 2024

📍 Paris, France 🗣️ Are the detections of galaxy clusters at $z > 1.5$ real? (oral contribution)

Taipei Astronomy Workshop

Jan., 2024

📍 Taipei, Taiwan 🗣️ Do normality tests serve as effective indicators for the dynamical state of galaxy clusters? (oral contribution)

Annual Meeting of the Physical Society of Taiwan

Jan., 2024

📍 Taoyuan, Taiwan 🗣️ Beyond Hubble's Tuning Fork: is the classification of elliptical galaxies more complex than we thought?

A journey through galactic environments: From the halo assembly bias to the satellite quenching

Sep., 2023

📍 Porto Ercole, Italy 🗣️ Is the taxonomy of early-type galaxies more complicated than we thought?

NECO school: science and methods for wide-field photometric and spectroscopic extragalactic and cosmological surveys

Aug., 2023

📍 Kyoto, Japan 🗣️ Beyond Hubble's Tuning Fork: is the classification of elliptical galaxies more complex than we thought? (oral contribution)

Asia-Pacific Regional IAU Meeting (APRIM 2023)

Aug., 2023

📍 Koriyama, Japan 🗣️ Is the classification of early-type galaxies more complex than we thought?

Asia-Pacific Regional IAU Meeting (APRIM 2023)

Aug., 2023

📍 Koriyama, Japan the massive Saraswati supercluster going to disappear in the future?

Annual Meeting of the Astronomical Society of the Republic of China (Taiwan)

May, 2023

📍 Kaohsiung, Taiwan 🗣️ Investigating the dichotomy among early-type galaxies

PFS Science meeting

Mar., 2023

📍 Remote 🗣️ Is the dichotomy among early-type galaxies real?

9th Galaxy Evolution Workshop

Feb., 2023

📍 Kashiwa, Japan 🗣️ Is the dichotomy among early-type galaxies real?

Annual Meeting of the Astronomical Society of the Republic of China (Taiwan)

Sep., 2022

📍 Minxiong, Taiwan 🗣️ A major galaxy cluster merger caught by eROSITA

Annual Meeting of the Physical Society of Taiwan

Jan., 2022

📍 Taipei, Taiwan 🗣️ Witnessing the birth of the large-scale structure: anatomy and dynamical analysis of Hercules supercluster

Galaxy Cluster Formation II

Jun., 2021

📍 Remote 🗣️ Peculiar features arising from merging galaxy clusters: the case of A1644 and A2034

JSPS-FAPESP Workshop on dark energy, dark matter, and galaxies

Feb., 2019

📍 São Paulo, Brazil 🗣️ Merging galaxy clusters and the search for self-interacting dark matter (oral contribution)

SnowCluster - The Physics of Galaxy Clusters

Mar., 2018

📍 Salt Lake City, USA 🗣️ Unveiling the dark side of the Universe through the merging galaxy clusters

ICTP-SAIFR School on Dark Matter

Jul., 2016

📍 São Paulo, Brazil

IAU General Assembly Meeting

Aug., 2015

📍 Honolulu, USA 🗣️ The merging cluster Abell 1758: an optical and dynamical view	
10th J-PAS Collaboration Meeting	Mar., 2015
📍 Paraty, Brazil 🗣️ The merging cluster Abell 1758: adding new pieces into a complex puzzle	
Cosmology with Galaxy Clusters	Nov., 2014
📍 Madrid, Spain 🗣️ The merging cluster Abell 1758: adding new pieces into a complex puzzle	
XXXVIII Annual Meeting of the Brazilian Astronomical Society	Sep., 2014
📍 Búzios, Brazil 🗣️ The merging cluster Abell 1758	
GMT Science Workshop	Nov., 2013
📍 São Paulo, Brazil 🗣️ The merging cluster 1758	
SnowCLUSTER: Physics of Galaxy Clusters	Mar., 2013
📍 Salt Lake City, USA 🗣️ Dynamical Analysis of the Merging Cluster Abell 1758	
USP Conference: Cosmology, large scale structure and first objects	Feb., 2013
📍 São Paulo, Brazil 🗣️ The merging cluster 1758	
XVI IAG/USP Advanced School on Astrophysics	Nov., 2012
📍 Itatiba, Brazil 🗣️ The merging cluster Abell 1758	
XXXVII Annual Meeting of the Brazilian Astronomical Society	Oct., 2012
📍 Águas de Lindóia, Brazil 🗣️ The merging cluster Abell 1758	
Growing up at high redshift: from proto-clusters to galaxy clusters workshop	Sep., 2012
📍 Madrid, Spain 🗣️ A multi-technique analysis of the merging cluster Abell 1758	
Science with LSST: A Brazilian/US joint workshop	Apr., 2012
📍 Campos do Jordão, Brazil 🗣️ Merging galaxy clusters	
South American Gemini Data Workshop	Oct., 2011
📍 São José dos Campos, Brazil 🗣️ Merging galaxy clusters	
XXXVI Annual Meeting of the Brazilian Astronomical Society	Sep., 2011
📍 Águas de Lindóia, Brazil 🗣️ Merging galaxy clusters	
XXXV Annual Meeting of the Brazilian Astronomical Society	Sep., 2010
📍 Passa Quatro, Brazil 🗣️ Merging galaxy clusters	
I Jaime Tiomno School of Cosmology	Jul., 2010
📍 Rio de Janeiro, Brazil 🗣️ Merging galaxy clusters	

📖 Papers (published)

25. Chiu, I-N., Ghirardini, V., Grandis, S., Okabe, Bulbul, E., Bahar, Y. E., Balzer, F., Clerc, N., Comparat, J., Kleinebreil, F., Kluge, M., Liu, A., **Monteiro-Oliveira, R.**, et al., 2025, A&A, 704, A110. [The SRG/eROSITA All-Sky Survey. The Weak-Lensing Mass Calibration and the Stellar Mass-to-Halo Mass Relation from the Hyper Suprime-Cam Subaru Strategic Program](#)
24. Okabe, N., Reiprich, T., Grandis, S., Chiu, I-N., Oguri, M., Umetsu, K., Bulbul, E., Bahar, E., Balzer, F., Clerc, N., Comparat, J., Ghirardini, V., Kleinebreil, F., Kluge, M., Liu, A., Lin, Y-T., **Monteiro-Oliveira, R.**, et al., 2025, A&A, 700, A46. [The SRG/eROSITA All-Sky Survey : Subaru/HSC-SSP weak-lensing mass measurements for the eRASS1 Galaxy Clusters](#)
23. **Monteiro-Oliveira, R.**, Lin, Y-T., Chen, W-H., Chuang, C-Y., Abdurro'uf, Wu, P-F., 2025, ApJ, 988, 138. [No Evidence of a Dichotomy in the Elliptical Galaxy Population](#)
22. Zenteno, A., Kluge, M., Kharkrang, R., Hernandez-Lang, D., Damke, G., Saro, A., **Monteiro-Oliveira, R.**, et al., 2025, A&A, 698, A171. [The dynamical state of eROSITA clusters and its impact on the brightest cluster galaxy luminosity](#)
21. Ding, J., Dalal, R., Sunayama, T., Strauss, M. A., Oguri, M., Okabe, N., Hilton, M., **Monteiro-Oliveira, R.**, Sifón, C., Staggs, S. T., 2024, MNRAS, 536, 572. [Miscentring of optical galaxy clusters based on Sunyaev-Zeldovich counterparts](#)
20. Chen, T-C., Lin, Y-T., Schive, H-Y., Oguri, M., Chen, K-F., Okabe, N., Ali, S., Bottrell, C., Dalal, R., Koyama, Y., **Monteiro-Oliveira, R.**, et al., 2024, ApJ, 975, 200. [A Systematic Search of Distant Superclusters with the Subaru Hyper Suprime-Cam Survey](#)
19. Machado, R. E. G., Volert, R. C., Albuquerque, R. P., **Monteiro-Oliveira, R.**, Lima Neto, G. B., 2024, ApJ, 970, 160. [Simulating the Arrival of the Southern Substructure in the Galaxy Cluster Abell 1758](#)
18. Albuquerque, R. P., Machado, R. E. G., **Monteiro-Oliveira, R.**, 2024, MNRAS, 530, 2146. [Unravelling the collision scenario of the dissociative galaxy cluster Abell 56 through hydrodynamic simulations](#)
17. Hernández-Lang, D., Zenteno, A., Díaz-Ocampo, A., Cuevas, H., Clancy, J., Prado P. H., Aldás, F., Pallero, D., **Monteiro-Oliveira, R.**, et al., 2022, MNRAS, 517, 4355. [Clash of Titans: A MUSE dynamical study of the extreme cluster merger SPT-CL J0307-6225](#)
16. **Monteiro-Oliveira, R.**, 2022, MNRAS, 515, 3674. [A major galaxy cluster merger caught by eROSITA: weak lensing mass distribution and kinematic description](#)

15. **Monteiro-Oliveira, R.**, Morell, D. F., Sampaio, V. M., Ribeiro, A. L. B., de Carvalho, R. R., 2022, MNRAS, 509, 3470. [Unveiling the internal structure of Hercules supercluster](#)
14. Bonoli, S. + 163 co-authors, **Monteiro-Oliveira, R.**, et al., 2021, A&A, 653, A31. [The miniJPAS survey: a preview of the Universe in 56 colours](#)
13. **Monteiro-Oliveira, R.**, Soja, A. C., Ribeiro, A. L. B., Bagchi, J., Sankhyayan, S., Candido, T. O., Flores, R. R., 2021, MNRAS, 501, 756. [Probing Saraswati's heart: evaluating the dynamical state of the massive galaxy cluster A2631 through a comprehensive weak lensing and dynamical analysis](#)
12. Moura, M. T.; Machado, R. E. G., **Monteiro-Oliveira, R.**, 2021, MNRAS, 500, 1858. [Simulations of the merging galaxy cluster Abell 2034: what determines the level of dissociation](#)
11. Kelkar, K., Dwarakanath K. S., Poggianti B. M., Moretti A., **Monteiro-Oliveira, R.**, et al., 2020, MNRAS, 496, 442. [Passive spirals and shock influenced star formation in the merging cluster Abell 3376](#)
10. Doubrawa, L., Machado, R. E. G., Laganá, T. F., Lima Neto, G. B., **Monteiro-Oliveira, R.**, Cypriano, E. S., 2020, MNRAS, 495, 2022. [Simulations of gas sloshing induced by a newly discovered gas poor substructure in galaxy cluster Abell 1644](#)
9. **Monteiro-Oliveira, R.**, Doubrawa, L., Machado, R. E. G., Lima Neto, G. B., Molina, M. C.; Cypriano, E. S., 2020, MNRAS, 495, 2007. [Revising the merger scenario of the galaxy cluster Abell 1644: a new gas poor structure discovered by weak gravitational lensing](#)
8. Mendes de Oliveira, C. L., + 118 authors, **Monteiro-Oliveira, R.**, et al., 2019, MNRAS, 489, 241. [The Southern Photometric Local Universe Survey \(S-PLUS\): improved SEDs, morphologies, and redshifts with 12 optical filters](#)
7. Molino, A., Costa-Duarte, M.V., Mendes de Oliveira, C., Lima Neto, G. B., Cypriano, E. S., Sodré Jr, L., Coelho, P., Chow-Martínez, M., **Monteiro-Oliveira, R.**, et al., 2019, A&A, 622, A178. [J-PLUS: On the identification of new cluster members in the double galaxy cluster A2589 & A2593 using PDFs](#)
6. Mahadev, P., **Monteiro-Oliveira, R.**, Bagchi, J., Simionescu, A., Limousin, M., Raychaudhury, S., 2019, MNRAS, 482, 5093. [A combined X-ray, optical and radio view of the merging galaxy cluster MACS J0417-1154](#)
5. **Monteiro-Oliveira, R.**, Cypriano, E. S., Vitorelli, A. Z., Ribeiro, A. L. B., Sodré, L., Dupke, R., Mendes de Oliveira, C. L., 2018, MNRAS, 481, 1097 [New insights on the dissociative merging galaxy cluster Abell 2034](#)
4. Soja, A. C., Sodré, L., **Monteiro-Oliveira, R.**, Cypriano, E. S., Lima Neto, G. B., 2018, MNRAS, 477, 3279. [A Gemini view of the galaxy cluster RXC J1504-0248: insights on the nature of the central gaseous filaments](#)
3. **Monteiro-Oliveira, R.**, Lima Neto, G. B., Cypriano, E. S., Machado, R. E. G., Capelato, H. V., Laganá, T. F., Durret, F., Bagchi, J., 2017b, MNRAS, 468, 4566. [Weak lensing and spectroscopic analysis of the nearby dissociative merging galaxy cluster Abell 3376](#)
2. **Monteiro-Oliveira, R.**, Cypriano, E. S., Machado, R. E. G., Lima Neto, G. B., Ribeiro, A. L. B., Sodré, L., Dupke, R., 2017a, MNRAS, 466, 2614. [The merger history of the complex cluster Abell 1758: a combined weak lensing and spectroscopic view](#)
1. Machado, R. E. G., **Monteiro-Oliveira, R.**, Lima Neto, G. B., Cypriano, E. S., 2015, MNRAS, 451, 3309. [Simulating the shocks in the dissociative galaxy cluster Abell 1758N](#)

📖 Conference Proceedings

3. **Monteiro-Oliveira, R.** [Is the taxonomy of early-type galaxies more complicated than we thought? A Journey Through Galactic Environments: From the Halo Assembly Bias to the Satellite Quenching](#), 2023.
2. Fugivala, Vitor H. Y., **Monteiro-Oliveira, R.**, Ribeiro, A. L. B. [Mapping the Hercules supercluster to understand large scale structure formation and environmental effects on galaxies](#). Proceedings of XLV Meeting of Brazilian Astronomical Society. 2022.
1. **Monteiro-Oliveira, R.** [Peculiar features arising from merging galaxy clusters: the case of A1644 and A2034](#). Galaxy Cluster Formation II. 2021.

⚙️ Referees

Eduardo S. Cypriano Associate Professor IAG/USP eduardo.cypriano@iag.usp.br
André L. B. Ribeiro Full Professor UESC albr@uesc.br
Rubens E. G. Machado Associate Professor UTFPR rubensmachado@utfpr.edu.br
Yen-Ting Lin Research Fellow ASIAA yt@asiaa.sinica.edu.tw

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