

# Stefano Marchesi

## Curriculum Vitae e Studiorum

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### Research interests

AGN-galaxy co-evolution / Obscured AGN / Very High Energy Galactic sources/ Multi-wavelength follow-up of Very High Energy Galactic and extragalactic sources/ Simulations for new X-ray missions / X-ray surveys / High-redshift cosmology / AGN luminosity function

### Work

- February 2023 - January 2026 (expected):* TDA Researcher at Università di Bologna - Progetto CTA+. Referenti: Prof. Cristian Vignali; Dr Roberta Zanin
- June 2021 - January 2023:* TD Researcher at INAF - Osservatorio di Astrofisica e Scienza dello Spazio di Bologna, Bologna (Italy).
- July 2019-Today:* Adjunct Professor at Clemson University, Clemson, SC (USA).
- June 2019-May 2021:* Post-doctoral fellow at INAF - Osservatorio di Astrofisica e Scienza dello Spazio di Bologna, Bologna (Italy). Supervisor: Dr Roberto Gilli
- March 2016-June 2019:* Post-doctoral fellow at Clemson University, Clemson, SC (USA). Supervisor: prof. Marco Ajello.

### Education

- 2012-2015:* PhD Student at the Department of Physics and Astronomy of Bologna University (Italy) Thesis: Black hole and galaxy growth over cosmic time: the Chandra COSMOS Legacy survey. Advisors: Professor Cristian Vignali, Dr Francesca Civano, Dr Andrea Comastri.
- June-September 2015:* Visiting graduate student at Harvard-Smithsonian Center for Astrophysics (Cambridge, MA, USA).
- November 2013-May 2015:* Visiting graduate student at Yale Center for Astronomy and Astrophysics (New Haven, CT, USA).
- January-June 2013:* Visiting graduate student at Dartmouth College (Hanover, NH, USA).
- 2010-2012:* Master Degree in Astrophysics and Cosmology at the Department of Physics and Astronomy of Bologna. Thesis: *Redshift evolution of metal abundance in clusters of galaxies*. Advisors: Professor Fabrizio Brighenti, Dr Alessandro Baldi, Dr Stefano Ettori.
- 2007-2010:* Bachelor Degree in Astronomy at the Department of Physics and Astronomy of Bologna. Thesis: The solar activity and its role in terrestrial climate. Advisors: Professor Francesco Rosario Ferraro, Dr Barbara Lanzoni.

## International collaborations membership

- February 2023- Today* Member of the Cherenkov Telescope Array (CTA) collaboration. Part of the Extragalactic Working Group.
- July 2022 - Today* Member of the High-Energy X-ray Probe (HEX-P) Black Hole Growth over Cosmic Time Pillar. I work on end-to-end simulations of surveys and on simulations of heavily obscured AGN spectra, testing different HEX-P technical configurations.
- May 2022- Today* Member of the AXIS probe AGN Scientific Working Group. I work on end-to-end simulations of surveys, testing different AXIS technical configurations.
- June 2020-Today* Member of the Athena Scientific Working Group 2.1: *Formation and growth of the earliest SMBH* and 2.2: *SWG 2.2 Understanding the build-up of SMBH and galaxies*. I worked on the development of new mock catalogs of AGN and galaxies (presented in Marchesi et al. 2020, A&A, 642, 184) that are now extensively used in Athena simulations.
- Summer 2013- Today* Member of the COSMOS collaboration. In charge (together with Dr Francesca Civano) of the Chandra COSMOS Legacy Survey.

## Technical skills

### X-ray

Expert in X-ray data reduction and analysis, for *Chandra* (with CIAO), *XMM-Newton* (with the Science Analysis System) and *NuSTAR* (HEASoft). Extended knowledge of XSpec and Sherpa. Expert in source detection with wavlet algorithms, and in creation of multi-wavelength catalogs of optical/IR counterparts using ML techniques. Expert in X-ray surveys simulations with SIXTE.

### Optical/IR

Observational experience (both in situ and remote) with the multi-slit spectrograph MOSFIRE (Keck) and with the KOSMOS (COSMOS) spectrograph at Kitt Peak (Cerro Tololo). In particular, I have been involved in a multi-year campaign aimed at increasing the spectroscopic and classification completeness of the Third Fermi-LAT Catalog of High-Energy Sources (3FHL), which contains all the sources detected by Fermi-LAT in the 10 GeV-2 TeV band and will thus be an ideal catalog to select CTA follow-up targets.

Keck MOSFIRE, DEIMOS and KOSMOS/COSMOS optical spectra analysis with IRAF. Expert in spectral energy distribution fitting tools for photometric redshift and galaxy properties computation (e.g., Hyperz).

### Computer skills

- Coding languages: Python (main language), Latex (expert), IDL (good), tcsh (basic), Awk (basic).
- Expert in using astronomical tools like Topcat and DS9.
- Extensive knowledge in data handling of large datasets.

## Teaching

- 2019-Today* Teaching assistant in the “X-ray astrophysics laboratory”, mandatory class in the Master Degree in Astrophysics at Bologna University, Italy. Reference: Prof. Cristian Vignali.
- Spring 2018* Lesson on Comets in Dr Ádámkovic's Undergrad course (ASTR-2200: Planetary Science), Clemson University, Clemson (SC)
- Spring 2018* Three lessons on different astrophysical topics in Dr Ajello's Undergrad course (ASTR-1020: Stellar Astronomy), Clemson University, Clemson (SC)
- Fall 2017* Four lessons on different astrophysical topics in Dr Ajello's Undergrad course (ASTR-1020: Stellar Astronomy), Clemson University, Clemson (SC)
- Spring 2016* Lesson on Active Galactic Nuclei in Dr Ajello's Undergrad course (ASTR-3030: Galaxies and Cosmology), Clemson University, Clemson (SC)

## Mentoring

- 2020-Today* Co-advisor, together with Dr Marco Ajello, of Núria Torres-Albà, PostDoctoral Fellow. Dr Albà main topic of research are variable obscured active galactic nuclei. Clemson University, Clemson (SC)
- 2018-2023 (expected)* Co-advisor, together with Dr Marco Ajello, of the PhD candidate Mr Ross Silver. Mr Silver thesis project is focused on the discovery and characterization of heavily obscured, X-ray selected active galactic nuclei. Clemson University, Clemson (SC).
- 2021-2024 (expected)* Co-advisor of the PhD candidate Dhrubojyoti Sengupta (Advisor: prof Cristian Vignali). Mr Sengupta thesis project is focused on the characterisation of heavily obscured accreting supermassive black holes. Università di Bologna, Dipartimento di Fisica e Astronomia, Bologna (Italy).
- 2017-2022* Co-advisor, together with Dr Marco Ajello, of the PhD candidate Jordan Eagle. Eagle thesis project was focused on the discovery and characterization of very high-energy Galactic sources detected using the *Fermi*-LAT telescope. Clemson University, Clemson (SC)
- 2018-2022* Co-advisor, together with Dr Marco Ajello, of the PhD candidate Meenakshi Rajagopal. Rajagopal thesis project was focused on the characterization of previously unclassified sources detected using the *Fermi*-LAT telescope. Clemson University, Clemson (SC)
- 2017-2021* Co-advisor, together with Dr Marco Ajello, of the PhD candidate Xiurui Zhao. Zhao thesis project was focused on the discovery and characterization of heavily obscured, X-ray selected active galactic nuclei. Clemson University, Clemson (SC). Dr Zhao graduated in May 2021.
- 2016-2017* Supervisor of David Dickson (undergraduate at Clemson University, SC)  
Project title: Spatial resolved metallicity in intermediate redshift galaxy clusters
- 2016-2017* Supervisor of Jonathan Kadan and Kellye Burns (undergraduate at Clemson University, SC). Project title: Rare sources in the 100-month BAT catalog
- 2016-2017* Supervisor of Luke Trambly (undergraduate at Clemson University, SC)  
Project title: X-ray spectral analysis of Swift-BAT selected low-luminosity AGN

## Awarded observing time

2023	<i>New Technology Telescope</i>	Outside the halo: Tracking the Mpc-scale structure of a $z\sim 1.7$ protocluster with SoFI (ESO Cycle 111, 0.6 nights with SoFI)
2022	<i>NuSTAR</i>	2FHLJ1745.1-3035: A New Efficient Galactic Accelerator (Proposal 8046, Cycle 8, 100 ks)
2021	<i>Large Binocular Telescope (LBT)</i>	Spectroscopically confirming with MODS three candidate obscured $z>5$ AGN in the deep J1030 Field (Proposal 2021/2022_35, 8 hours)
2021	<i>NuSTAR + XMM-Newton</i>	A joint <i>NuSTAR</i> and <i>XMM-Newton</i> monitoring of a candidate changing-look Compton thick AGN (Proposal 7192, <i>NuSTAR</i> Cycle 7, 75+75 ks)
2020	<i>Chandra</i>	A spatially resolved X-ray analysis of an extreme candidate pulsar wind nebula (Proposal 22500360, Cycle 22, 25 ks)
2019	<i>XMM-Newton</i>	A <i>XMM-Newton</i> monitoring of a candidate changing-look Compton thick AGN (Proposal 086298, Cycle AO-19, 28 ks)
2019	<i>Chandra</i>	Compton thick AGN: the hunt continues (Proposal 21700085, Cycle 21, 50 ks)
2019	<i>NuSTAR + XMM-Newton</i>	The Compton thick AGN Legacy Project: a complete sample of <i>NuSTAR</i> -observed nearby Compton thick AGNn ( <i>NuSTAR</i> Large program 5197, Cycle 5, 500+220 ks)
2018	<i>Gemini-N, Gemini-S</i>	Towards a full 3D mapping of the $>10$ GeV extragalactic sky: a spectroscopic follow-up campaign of unidentified 3FHL sources (Fermi proposal 111128, Cycle 11, 5 nights)
2018	<i>Gemini-S</i>	Characterizing a shock-cloud interaction on the Western edge of the Vela SNR (col; Fermi proposal 111197, Cycle 11, 1 night)
2018	<i>NuSTAR + XMM-Newton</i>	Heavily obscured AGN: the physics behind the obscuration ( <i>NuSTAR</i> Proposal 4253, Cycle 4, 90+60 ks)
2018	<i>Swift-XRT</i>	The Legacy of Swift-BAT: The Tale of AGN at Hard X-rays (Proposal 1417036, Cycle 14, 145 ks)
2017	<i>Chandra</i>	Compton thick AGN: the hunt continues (Proposal 19700430, Cycle 19, 40 ks)
2017	<i>NuSTAR + XMM-Newton</i>	Compton thick AGN: the physics behind the obscuration (Proposal 3258, <i>NuSTAR</i> Cycle 3, 100+100 ks)
2017	<i>KPNO-CTIO 4m-telescopes</i>	Full 3D Mapping And Identification Of The $>10$ GeV Extragalactic Sky (Fermi proposal 101287, Cycle 10, 15 nights)
2017	<i>Swift-XRT</i>	ToO observation of 2FHL J0705.9+0245 (ObsID 10047, 3 ks)
2016	<i>KPNO 4m-telescope</i>	Towards the first complete sample of $>50$ GeV blazars (NOAO 17A, 12 hours)
2016	<i>XMM-Newton + NuSTAR</i>	The Unique Case of PKS J1220+0203: a jetted AGN with a broad Iron Line ( <i>XMM-Newton</i> AO16, 50+50 ks; co-I)

## Awarded research funding

2022	Finanziamento di Astrofisica Fondamentale INAF. 20 k€.
2021	NuSTAR proposal 7192, 99 k\$.
2020	PRIN-INAF 2019, proposal “Piercing through the clouds: a multiwavelength study of obscured accretion in nearby supermassive black holes”. Funded as “Coordinatore speciale”. 34+70 k€.
2020	<i>Chandra</i> proposal 22500360, 22 k\$.
2019	<i>NuSTAR</i> proposal 5197, 116 k\$.
2019	<i>Chandra</i> proposal 21700085, 61 k\$.
2019	<i>NuSTAR</i> proposal 5197, XMM-Newton fair share: 36 k\$.
2018	NASA Astrophysics Data Analysis, proposal “Compton-Thick AGN: the Final Quest”: 250 k\$ (scientific PI).
2018	<i>Fermi</i> proposal 111128: 60 k\$.
2018	<i>Fermi</i> proposal 111197: 60 k\$ (scientific PI).
2018	<i>NuSTAR</i> proposal 04253. 75k\$.
2017	<i>Chandra</i> proposal 19700430. 63 k\$.
2017	<i>Fermi</i> proposal 101287. 60 k\$.
2017	<i>NuSTAR</i> proposal 03258. 55 k\$.

## Awards

2020	Premio congiunto SAlt-SIF “Giovanni Bignami” ( <a href="https://www.sif.it/attivita/altri_premi/bando_bignami/vincitori">https://www.sif.it/attivita/altri_premi/bando_bignami/vincitori</a> ).
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## Peer reviewing

2016-Today	Referee for the <i>Astrophysical Journal</i> , <i>Monthly Notices of the Royal Astronomical Society</i> , and <i>Astronomy and Astrophysics</i> .
April 2023	Member of the <i>Fermi</i> Cycle 16 peer review panel.
January 2022	Member of the <i>NICER</i> Cycle 4 peer review panel.
June 2021	Member of the <i>Chandra</i> Cycle 23 peer review panel.
2018-2021	Member of the evaluation committee of Mr Xiurui Zhao Graduate Research project, Clemson University, Clemson, SC (USA).
August 2019	Member of the NASA Astrophysics Data Analysis proposal evaluation panel.
March 2018	Member of the <i>NuSTAR</i> Cycle 4 peer review panel.

## Scientific contribution to conferences and seminars in the last five years

- 1 *June 2023* Conference "The restless nature of AGN: 10 years later". Napoli (Italy). Contributed poster.
- 2 *May 2023* MAGIC Collaboration Meeting. Online. Invited talk.
- 3 *February 2023* Workshop "IXPE: la nuova finestra osservativa sul cosmo ad alte energie". Rome (Italy). Invited talk.
- 4 *January 2023* Workshop "Getting Ready To Descend The Slippery Slope Of Multimessenger Cosmological Black Holes Data". Sexten (Italy). Invited talk.
- 5 *December 2022* National Observatory of Athens, Athens (Greece). Invited (virtual) colloquium.
- 6 *November 2022* Exploring the Hot and Energetic Universe: the third scientific conference dedicated to the Athena X-ray Observatory. Barcelona (Spain). Contributed talk.
- 7 *July 2022* COSPAR 2022 44th Assembly. Athens (Greece). Contributed talk.
- 8 *June 2022* Multiphase Agn Feeding & Feedback II: Linking The Micro To Macro Scales In Galaxies, Groups, And Clusters. Sexten (Italy). Invited talk.
- 9 *June 2022* Ten years of High-Energy Universe in Focus: NuSTAR 2022 meeting. Cagliari (Italy). Contributed talk.
- 10 *April 2022* Clemson University, Clemson, SC (USA). Invited colloquium.
- 11 *February 2022* Harvard-Smithsonian Center for Astrophysics, Cambridge, MA (USA). Invited high-energy (virtual) seminar. <https://www.youtube.com/watch?v=Eei6SFVQIfs>
- 12 *January 2022* Quasars and Galaxies through Cosmic Time 2022 Virtual Conference. Contributed talk. [https://www.youtube.com/watch?v=es2\\_8bXDr58](https://www.youtube.com/watch?v=es2_8bXDr58)
- 13 *December 2020* Supermassive Black Holes Conference. Virtual. Contributed talk.
- 14 *November 2020* Space Telescope Science Institute. Invited (virtual) talk.
- 15 *October 2020* Young Astronomers on Galactic Nuclei Virtual Conference. Contributed talk.
- 16 *June 2020* INAF-OAS Bologna, Bologna (Italy). Invited (virtual) talk. <https://www.youtube.com/watch?v=6xUZZASb37s>
- 17 *October 2019* Clemson University, Clemson, SC (USA). Invited colloquium.
- 18 *October 2019* Accretion History of AGN Workshop, Miami, FL (USA). Contributed talk.
- 19 *September 2019* X-ray Astronomy 2019 Conference, Bologna (Italy). Contributed poster.
- 20 *July 2019* Hot topics in Astrophysics Meeting, Sexten (Italy). Contributed talk.
- 21 *May 2019* CTA Symposium, Bologna (Italy). Contributed poster.
- 22 *March 2019* Meeting of Astronomers of South Carolina, Clemson, SC (USA). Contributed talk.
- 23 *March 2019* Georgia Tech School of Physics, Atlanta, GA (USA). Invited seminar.
- 24 *October 2018* Accretion History of AGN Workshop, Miami, FL (USA). Contributed talk.
- 25 *October 2018* 8th International Fermi Symposium, Baltimore, MD (USA). Contributed poster.
- 26 *August 2018* Dartmouth College, Hanover, NH (USA). Invited seminar.
- 27 *July 2018* COSPAR 2018 42nd Assembly, Pasadena, CA (USA). Contributed talk.
- 28 *June 2018* Istituto di Astrofisica Spaziale e Fisica Cosmica, Palermo, Italy. Invited colloquium.
- 29 *March 2018* Meeting of Astronomers of South Carolina, Dooley Planetarium and Observatory, Florence, SC (USA). Contributed talk
- 30 *March 2018* Cahill Center for Astronomy and Astrophysics, Caltech, Pasadena, CA (USA). Invited talk.

## Public outreach and community service

- September 2019* Member of the Local Organizing Committee at the Bologna X-ray Astronomy 2019 Conference. Reference: prof. Marcella Brusa ([marcella.brusa3@unibo.it](mailto:marcella.brusa3@unibo.it))
- October 2018* Judge at the public outreach competition for graduate students “3MT - Three Minutes Talk”, Clemson University, Clemson, SC (USA).
- August 2018* Judge at the PhD Students talk competition at the Symposium for Research in Physics and Astronomy, Clemson University, Clemson, SC (USA)
- April 2018* Judge at the GRADS poster competition, Clemson University, Clemson, SC (USA)
- July 2016-2018* Judge at the 4th, 5th and 6th Annual Summer Undergraduate Research Symposium, Clemson University, Clemson, SC (USA).
- April 2016- June 2019* Host of shows at the Clemson Planetarium, Clemson, SC (USA), on a regular schedule.
- April 2015:* Co-organizer of the Yuri’s night, public astronomy-related event at Leitner Family Observatory and Planetarium, New Haven, CT (USA).
- 2014-2015* Judge at the annual New Haven Science Fair, New Haven, CT (USA).

## Schools and workshops

- June 2014:* Yale Software Bootcamp, New Haven, CT (USA). Training and work hands-on with the Unix shell, git and Python.
- June 2014:* 10th Summer School of Astrostatistics, State College, PA (USA). Training in statistical tools and their application to astrophysical topics. Theoretical lessons and hands-on exercises.
- April 2013:* 9th Chandra/CIAO Workshop, Cambridge, MA (USA). Chandra data reduction and analysis (both imaging and spectroscopy).
- December 2013:* Virtual Observatory Workshop, Rome (Italy). Work hands-on on several tools for astronomical data analysis (TOPCAT, Aladin, VO).

## References

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## Publications list

3983 citations, 538 citations to first author papers, h-index: 30 (as of July 10, 2023; statistics taken from the SAO/NASA Astrophysics Data System). ORCID-ID: 0000-0001-5544-0749.

### First author publications

1. [Marchesi, S.](#), Mignoli, M. et al.: LBT-MODS spectroscopy of high-redshift candidates in the Chandra J1030 field. A newly discovered  $z \sim 2.8$  large-scale structure, 2023, *A&A*, 673, 97.
2. [Marchesi, S.](#), Zhao, X. et al.: Compton-Thick AGN in the NuSTAR era VIII: A joint NuSTAR-XMM-Newton monitoring of the changing-look Compton-thick AGN NGC 1358, 2022, *ApJ*, 935, 114.
3. [Marchesi, S.](#), Mignoli, M. et al.: Redshift identification of X-ray selected active galactic nuclei in the J1030 field: searching for large-scale structures and high-redshift sources, 2021, *A&A*, 656, 117.



4. [Marchesi, S.](#): Understanding the black hole-galaxy connection: a multi-X-ray observatory approach, 2021, *Memorie della Società Astronomica Italiana*, 92, 1.
5. [Marchesi, S.](#), [Gilli, R.](#) et al.: Mock catalogs for the extragalactic X-ray sky: Simulating AGN surveys with ATHENA and with the AXIS probe, 2020, *A&A*, 642A, 184.
6. [Marchesi, S.](#), [Ajello, M.](#) et al.: Compton Thick AGN in the NuSTAR era V: Joint NuSTAR and XMM-Newton spectral analysis of three "soft-Gamma" candidate CT-AGNs in the Swift-BAT 100-month catalog, 2019, *ApJ*, 882, 162.
7. [Marchesi, S.](#), [Ajello, M.](#) et al.: Compton Thick AGN in the NuSTAR era III: A systematic study of the torus covering factor, 2019, *ApJ*, 872, 8.
8. [Marchesi, S.](#), [Kaur, A.](#), [Ajello, M.](#): Identifying the 3FHL Catalog. II. Results of the COSMOS Optical Spectroscopy Campaign, 2018, *AJ*, 156, 212
9. [Marchesi, S.](#), [Ajello, M.](#) et al.: Compton Thick AGN in the NuSTAR era, 2018, *ApJ*, 854, 49
10. [Marchesi, S.](#), [Tremblay, L.](#) et al.: Chandra and NuSTAR follow-up observations of Swift-BAT selected AGN, 2017, *ApJ*, 848, 53
11. [Marchesi, S.](#), [Ajello, M.](#) et al.: X-Ray Spectral Properties of Seven Heavily Obscured Seyfert 2 Galaxies, 2017, *ApJ*, 836, 116
12. [Marchesi, S.](#), [Lanzuisi, G.](#) et al.: The Chandra COSMOS-Legacy survey: Source X-ray spectral properties, 2016, *ApJ*, 830, 100
13. [Marchesi, S.](#), [Civano, F.](#) et al.: The  $z>3$  sample in the Chandra COSMOS Legacy Survey, 2016, *ApJ*, 827, 150
14. [Marchesi, S.](#), [Civano, F.](#) et al.: Optical counterparts of the Chandra COSMOS Legacy Survey, 2016, *ApJ*, 817, 34

## Other publications

1. [Signorini, M.](#), [Marchesi, S.](#) Et al.: X-ray properties and obscured fraction of AGN in the J1030 Chandra field, 2023, accepted for publication in *A&A*.
2. [Sengupta, D.](#), [Marchesi, S.](#) et al.: Compton-thick AGN in the NuSTAR Era X: Analysing seven local CT-AGN candidates, 2023, accepted for publication in *A&A*.
3. [Feltre, A.](#) et. Al.: Optical and mid-infrared line emission in nearby Seyfert galaxies, 2023, *A&A*, 675, 74.
4. [Silver, R.](#) et al.: A New Mid-Infrared and X-ray Machine Learning Algorithm to Discover Compton-thick AGN, 2023, *A&A*, 675,65.
5. [Georgantopoulos, I.](#) et al.: Comparing the host galaxy ages of X-ray selected AGN in COSMOS. Obscured AGN are associated with older galaxies, 2023, *A&A*, 673, 67.
6. [Brienza, M.](#) et al.: AGN feedback in an infant galaxy cluster: LOFAR-Chandra view of the giant FR II radio galaxy J103025+052430 at  $z = 1.7$ , 2023, *A&A*, 672, 179.
7. [Peca, A.](#) et al.: On the Cosmic Evolution of AGN Obscuration and the X-Ray Luminosity Function: XMM-Newton and Chandra Spectral Analysis of the 31.3 deg<sup>2</sup> Stripe 82X, 2023, *ApJ*, 943, 62.
8. [Rajagopal, M.](#) et al.: Identifying the 3FHL Catalog. VI. Results of the 2019 Gemini Optical Spectroscopy, 2023, *AJ*, 165, 42.
9. [Pal, I.](#) Et al.: X-ray spectral and timing analysis of the Compton Thick Seyfert 2 galaxy NGC 1068, 2022, *MNRAS*, 517, 3341.
10. [Silver, R.](#) et al.: Compton-thick AGN in the NuSTAR Era. IX. A Joint NuSTAR and XMM-Newton Analysis of Four Local AGN, 2022, *ApJ*, 940, 148.
11. [Joffre, S.](#) et al.: Identifying the 3FHL Catalog. VI. Swift Observations of 3FHL Unassociated Objects with Source Classification via Machine Learning, *ApJ* 940, 139.

12. D'Amato, Q. et al.: A deep 1.4 GHz survey of the J1030 equatorial field: a new window on radio source populations across cosmic time, 2022, A&A, 668, 133.
13. Gilli, R. et al.: Next Generation X-ray Imaging Surveys, 2022, Memorie della Società Astronomica Italiana, 93, 236.
14. Risaliti, G. et al.: Quasars at High-Redshift: Physics and Cosmology, 2022, Memorie della Società Astronomica Italiana, 93, 64.
15. Shah, E.A. et al.: Investigating the Effect of Galaxy Interactions on Star Formation at  $0.5 < z < 3.0$ , 2022, ApJ, 940, 4.
16. Ananna, T.A. et al.: Probing the Structure and Evolution of BASS AGN through Eddington Ratios, 2022, ApJL, 939, 13.
17. Matzeu, G. et al.: A New Emulated Monte Carlo Radiative Transfer Disk-Wind Model: X-Ray Accretion Disk-wind Emulator - XRADE, 2022, MNRAS.
18. Gilli, R. et al.: Supermassive Black Holes at High Redshift are Expected to be Obscured by their Massive Host Galaxies' Inter Stellar Medium, 2022, A&A, 666A, 17.
19. Pizzetti, A., Torres-Albà, N., Marchesi, S. et al.: A multi-epoch X-ray study of the nearby Seyfert 2 galaxy NGC 7479: Linking column density variability to the torus geometry, 2022, ApJ, 936, 149.
20. Coleman, B. et al.: Accretion History of AGN: Estimating the Host Galaxy Properties in X-ray Luminous AGN from  $z=0-3$ , 2022, MNRAS, 515, 82.
21. Vito, F. et al.: An X-ray fading, UV brightening QSO at  $z \sim 6$ , 2022, A&A, 663, 159.
22. Salvestrini, F. et al.: The molecular gas properties in local Seyfert 2 galaxies, 2022, A&A, 663, 28.
23. Silver, R. et al.: Chandra Follow-up Observations of Swift-BAT-selected AGNs II, 2022, ApJ, 932, 43.
24. Ito, K. et al.: COSMOS2020: Ubiquitous AGN Activity of Massive Quiescent Galaxies at  $0 < z < 5$  Revealed by X-ray and Radio Stacking, 2022, ApJ, 929, 53.
25. D'Amato, Q. et al.: Multi-Wavelength Study of a Proto-BCG at  $z = 1.7$ , 2021, Galaxies, 9, 115.
26. Torres-Albà, N., Marchesi, S. et al.: Compton-Thick AGN in the NuSTAR ERA VI: The Observed Compton-thick Fraction in the Local Universe, 2021, ApJ, 922, 252.
27. Traina, A., Marchesi, S. et al.: Compton-Thick AGN in the NuSTAR ERA VII. A joint NuSTAR, Chandra, and XMM-Newton Analysis of Two Nearby, Heavily Obscured Sources, 2021, ApJ, 922, 159.
28. Ajello, M. et al.: Gamma Rays from Fast Black-hole Winds, 2021, ApJ, 921, 144.
29. Rajagopal, M., Marchesi, S. et al.: Identifying the 3FHL Catalog. V. Results of the CTIO-COSMOS Optical Spectroscopy Campaign 2019, 2021, ApJS, 254, 26.
30. Zhao, X., Marchesi, S. et al.: The properties of the AGN torus as revealed from a set of unbiased NuSTAR observations, 2021, A&A, 650A, 57.
31. Peca, A. et al.: X-Ray Redshifts for Obscured AGN: A Case Study in the J1030 Deep Field, 2021, ApJ, 906, 90.
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