



Francesco Ursini

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📍 **Work:** via della Vasca Navale 84 Dipartimento di Matematica e Fisica, Università degli Studi Roma Tre, 00146 Rome (Italy)

ABOUT ME

Research interests: X-ray astronomy -- Active galactic nuclei -- Radio galaxies -- Low-mass X-ray binaries

WORK EXPERIENCE

Ricercatore TDA a tempo pieno (Non-tenure researcher, full time)

Università degli Studi Roma Tre [1 Jul 2022 – Current]

City: Rome

Country: Italy

High-energy astrophysics, accretion onto compact objects

Assegnista di Ricerca (Postdoc)

Università degli Studi Roma Tre [28 Feb 2021 – 30 Jun 2022]

City: Rome

Country: Italy

Black hole winds and the baryon life cycle of galaxies

Assegnista di Ricerca (Postdoc)

Università degli Studi Roma Tre [29 Feb 2020 – 27 Feb 2021]

City: Rome

Country: Italy

Support activities to the *IXPE* mission

Assegnista di Ricerca (Postdoc)

INAF-Osservatorio di Astrofisica e Scienza dello spazio di Bologna [30 Apr 2017 – 27 Feb 2020]

City: Bologna

Country: Italy

X-ray spectral analysis of high-energy sources, primarily active galactic nuclei

EDUCATION AND TRAINING

Ph.D. in Physics and in Astrophysics

Université Grenoble Alpes, Università degli Studi Roma Tre [Oct 2013 – Oct 2016]

Address: Grenoble (France)

Thesis: Constraining the high-energy emission sources in the environment of supermassive black holes

Link: <https://tel.archives-ouvertes.fr/tel-01589295/>

Joint Ph.D. at Université Grenoble Alpes, France (*Doctorat en Astrophysique et milieux dilués*) and Università degli Studi Roma Tre, Italy (*Dottorato di ricerca in Fisica*) financed by a *Vinci* scholarship of the Université Franco-Italienne.

Co-supervisors: P.-O. Petrucci, G. Matt

Visiting Student

Harvard-Smithsonian Center for Astrophysics [Jun 2013 – Sep 2013]

Address: Boston (United States)

Numerical simulations of accretion disc winds in active galactic nuclei

Supervisor: M. Elvis

Laurea Magistrale in Scienze Fisiche e Astrofisiche (Master's Degree in Physics and Astrophysics)

Università degli Studi di Firenze [Sep 2009 – Dec 2012]

Address: Florence (Italy)

Final grade: 110/110 cum laude

Thesis: Variability in the X-ray band of active galactic nuclei (Supervisor: G. Risaliti)

Laurea Triennale in Fisica e Tecnologie Avanzate (Bachelor's Degree in Physics)

Università degli Studi di Siena [Sep 2006 – Oct 2009]

Address: Siena (Italy)

Final grade: 110/110 cum laude

NETWORKS AND MEMBERSHIPS

Member of the SUBWAYS (Supermassive Black Holes Winds in the X-rays) project

[2020 – Current]

Team leader: M. Brusa

Responsible of the analysis of *NuSTAR* data

Link: <https://marcellabrusa.wixsite.com/subways2019>

Member of the ISSI international team "Warm coronae in AGN: Observational evidence and physical understanding"

[2020 – Current]

Co-chair: P.-O. Petrucci (IPAG), G. Matt (Univ. Roma Tre)

1 paper published as co-author

Link: <https://sites.google.com/view/issi-warmcorona/home>

Member of the Athena Science Study Team

[2019 – Current]

Science Working Group 2.4 The close environments of supermassive black holes

Lead author of one paper to be included in the Astronomy & Astrophysics Special Issue on the *Athena* science

Link: <https://www.the-athena-x-ray-observatory.eu/community.html>

Participant to the IXPE Science Team

[2019 – Current]

Topical Working Groups:

- Accreting neutron stars (Lead author for one of the 1st year targets)
- Radio-quiet AGN and Sgr A*

Link: https://ixpe.msfc.nasa.gov/partners_sci_team.html

Member of the GRACE (Giant Radio Galaxies and their Duty Cycle) project

[2016 – Current]

1 paper published as first author, 1 as second author, 4 as co-author

Link: <https://sites.google.com/inaf.it/grace/>

Member of the NuSTAR Science Team

[2012 – Current]

1 paper published as first author, 1 as co-author

Member of the INTEGRAL/IBIS Survey Team

[2016 – 2020]

1 paper published as first author, 1 as co-author

Member of the EU FP7-Space Research Project StrongGravity

[2012 – 2017]

EU research project coordinated by the Astronomical Institute of the Czech Academy of Sciences

1 paper published as first author, 3 as co-author

Link: <http://stronggravity.eu/>

Member of the International Scientific Cooperation Project (PICS) CHEESES

[2012 – 2016]

PICS CNRS-INAF n. 181542, *CHEESES: Constraining the High Energy Emission Sources in the Environment of Supermassive black holes*

co-PIs: P.-O. Petrucci (CNRS/IPAG), A. De Rosa (INAF/IAPS)

1 paper published as second author

Link: https://adlibitum.oats.inaf.it/meetings/AGN11-Sept2014/Talks/De_Rosa_Alessandra.pdf

Participant to the ISSI international team "Deciphering AGN outflows: Multiwavelength monitoring of NGC 5548"

[2012 – 2016]

Team leaders: M. Cappi (INAF/IASF), J. Kaastra (SRON)

1 paper published as first author, 6 as co-author

Link: <https://www.issibern.ch/teams/ngc5548/>

TECHNICAL/OBSERVING EXPERIENCE

XMM-Newton, NuSTAR, Swift, NICER: successful proposals, reduction and analysis of data

Chandra, Suzaku, INTEGRAL: reduction and analysis of data

GRANTED OBSERVING TIME (PRINCIPAL INVESTIGATOR)

Joint X-ray polarimetry and spectroscopy of weakly magnetised neutron star X-ray binaries

[2021]

NuSTAR Cycle 8 proposal 8128 (50 ks)

Joint NICER-IXPE observation of GS 1826-238

[2021]

NICER ToO 41893 (30 ks)

Joint NICER-IXPE observation of Cygnus X-2

[2021]

NICER ToO 42807 (20 ks)

Raising the luminosity bar: broad-band view of the most luminous unobscured quasar at $z < 0.1$

[2020]

NuSTAR Cycle 7 proposal 7217 (200 ks)

Towards a census of the energetics and duty cycle of giant radio galaxies

[2018]

Swift Cycle 15 proposal 1518099 (~60 ks)

XMM observation of Fermi J1544-0649

[2017]

XMM-Newton ToO 081121 (50 ks)

Swift monitoring of the radio-weak BL Lac candidate Fermi J1544-0649

[2017]

Swift ToO 10145 (~30 ks)

The multiwavelength monitoring of the broad-line radio galaxy 3C 382

[2015]

Very Long Baseline Array DDT proposal (9.5 h)

NuSTAR/XMM monitoring of the broad-line radio galaxy 3C 382

[2014]

NuSTAR Cycle 2, proposal 2023/79060 (100 ks)

GRANTED OBSERVING TIME (CO-INVESTIGATOR)

Revealing the geometry of the hot corona in NGC 4151

[2022]

XMM-Newton Cycle 22, proposal 09211601 (100 ks)

Joint INTEGRAL-IXPE observation of Cygnus X-2

[2021]

INTEGRAL ToO 1970006 (50 ks)

PI: F. Capitanio

The geometry of the hot corona in MCG-05-23-16 and IC 4329A

[2020]

NuSTAR Cycle 7, proposal 7050 (160 ks)

PI: A. Marinucci

Hunting high-energy flares in radio-weak BL Lacs

[2020]

INTEGRAL Cycle 19, proposal 1940001 (340 ks)

PI: G. Bruni

XMM/HST monitoring of the ultra soft Narrow Line Seyfert 1RX J1355.2+5612

[2020]

XMM-Newton Cycle 21, proposal 09033701 (140 ks)

PI: S. Barnier

The first X-ray polarimetry and spectroscopy observations of transient black hole X-ray binaries

[2020]

NICER Cycle 4 proposal 5001 (240 ks)

PI: F. Capitanio

H I absorption in extended radio galaxies

[2017]

Giant Metrewave Radio Telescope Cycle 34, proposal 34_052 (16 h)

PI: L. Bassani

NuSTAR/XMM monitoring of the extreme Narrow Line Seyfert 1 Mrk 359

[2017]

NuSTAR Cycle 4, proposal 4157/83055 (250 ks)

PI: P.-O. Petrucci

The NuSTAR/XMM monitoring of the high accretion rate Seyfert 1 HE 1143-1810

[2016]

NuSTAR Cycle 3, proposal 3009/79558 (100 ks)

PI: S. Bianchi

Constraining The X-Ray Emitting Mechanism In AGN Via Simultaneous Swift/NuSTAR Observations

[2014]

NuSTAR Cycle 2, proposal 2099 (250 ks)

PI: A. Tortosa

SERVICE TO THE COMMUNITY

Member of the INTEGRAL Time Allocation Committee (AO-19, AO-20)

[2020 - 2022]

Journal referee

- The Astrophysical Journal
- Monthly Notices of the Royal Astronomical Society
- Astronomy and Astrophysics
- Astrophysics and Space Science

SUPPORT TO PHD AND MASTER STUDENTS' THESIS PROJECTS

Co-supervision

2021 - Current:

- **Andrea Gnarini**, Roma Tre University, PhD in Physics, Cycle XXXVI (supervisor: G. Matt): X-ray spectropolarimetric simulations of neutron star low-mass X-ray binaries

2021 - 2022:

- **Beatrice Vaia**, Roma Tre University, Master's Degree in Physics (supervisor: G. Matt): Broad-band view of the most luminous unobscured quasar at $z < 0.1$
- **Daniele Tagliacozzo**, Roma Tre University, Master's Degree in Physics (supervisor: G. Matt): X-ray spectropolarimetric simulations of the Seyfert galaxy IC 4329A

Scientific support and assistance

2022 - Current

- **Romana Mikusincova**, Roma Tre University, PhD in Physics, Cycle XXXV (supervisor: G. Matt): X-ray spectral analysis of neutron star low-mass X-ray binaries

2021 - Current

- **Vittoria Elvezia Gianolli**, Université Grenoble Alpes and Roma Tre University, PhD in Physics, Cycle XXXVII (supervisors: P.-O. Petrucci, S. Bianchi): systematic study of ultra-fast outflows in active galactic nuclei
- **Maxime Parra**, Université Grenoble Alpes and Roma Tre University, PhD in Physics, Cycle XXXVII (supervisors: P.-O. Petrucci, S. Bianchi): X-ray spectral analysis of Galactic black holes winds

RESEARCH IMPACT

Publication metrics

[2013 – May 2023]

55 publications, ~1370 refereed citations, H-index=22 (source: ADS)

51 journal articles, of which:

- 12 as first author
- 3 as second author
- 36 as co-author

4 proceedings or conference papers

Link: <https://ui.adsabs.harvard.edu/search/q=orcid%3A%220000-0001-9442-7897%22>

Outreach

07 Jul 2021

Athena Nugget 55 Unveiling the Nature of the Mysterious Soft X-ray Excess in Active Galactic Nuclei (P.-O. Petrucci, F. Ursini, G. Matt)

<https://www.the-athena-x-ray-observatory.eu/resources/nuggets/54-resources/nuggets/1187-athenanuggets-55-unveiling-the-nature-of-the-mysterious-soft-x-ray-excess-in-active-galactic-nuclei,-by-francesco-ursini,-giorgio-matt-and-pierre-olivier-petrucci.html>

26 Mar 2021

NuSTAR News Release A Tale of Two Coronae: Solving the Mystery of the "Soft Excess". News release based on Ursini et al. (2020; A&A, 634, 192)

<https://www.nustar.caltech.edu/news/nustar210326>

PUBLICATIONS

[Tracking the spectral properties of ESO 511-G030 across different epochs](#)

[2023]

Astronomy & Astrophysics, Volume 672, id.A101, 17 pp.

Middei, R., Petrucci, P. -O., Bianchi, S., **Ursini, F.**, Matzeu, G. A., Vagnetti, F., Tortosa, A., Marinucci, A., Matt, G., Piconcelli, E., De Rosa, A., De Marco, B., Reeves, J., Perri, M., Guainazzi, M., Cappi, M., Done, C.

[Accretion geometry of the neutron star low mass X-ray binary Cyg X-2 from X-ray polarization measurements](#)

[2023]

Monthly Notices of the Royal Astronomical Society, Volume 519, Issue 3, pp.3681-3690

Farinelli, R., Fabiani, S., Poutanen, J., **Ursini, F.**, Ferrigno, C., Bianchi, S., Cocchi, M., Capitanio, F., De Rosa, A., Gnarini, A., Kislat, F., Matt, G., Mikusincova, R., Muleri, F., et al.

[Polarization Properties of the Weakly Magnetized Neutron Star X-Ray Binary GS 1826-238 in the High Soft State](#)

[2023]

The Astrophysical Journal, Volume 943, Issue 2, id.129, 10 pp.

Capitanio, F., Fabiani, S., Gnarini, A., **Ursini, F.**, Ferrigno, C., Matt, G., Poutanen, J., Cocchi, M., Mikusincova, R., Farinelli, R., Bianchi, S., Kajava, J. J. E., Muleri, F., Sanchez-Fernandez, C., Soffitta, P., Wu, K., et al.

[Mapping the circumnuclear regions of the Circinus galaxy with the Imaging X-ray Polarimetry Explorer](#)

[2023]

Monthly Notices of the Royal Astronomical Society, Volume 519, Issue 1, pp.50-58

Ursini, F., Marinucci, A., Matt, G., Bianchi, S., Marin, F., Marshall, H. L., Middei, R., Poutanen, J., Rogantini, D., De Rosa, A., Di Gesu, L., García, J. A., Ingram, A., Kim, D. E., Krawczynski, H., Puccetti, S., Soffitta, P., Svoboda, J., Tombesi, F., Weisskopf, M. C., Barnouin, T., Perri, M., Podgorny, J., Ratheesh, A., Zaino, A., et al.

[Supermassive Black Hole Winds in X-rays: SUBWAYS. II. HST UV spectroscopy of winds at intermediate redshifts](#)

[2023]

Astronomy & Astrophysics, Volume 670, id.A183

Mehdipour, M., Kriss, G. A., Brusa, M., Matzeu, G. A., Gaspari, M., Kraemer, S. B., Mathur, S., Behar, E., Bianchi, S., Cappi, M., Chartas, G., Costantini, E., Cresci, G., Dadina, M., De Marco, B., De Rosa, A., Dunn, J. P., Gianolli, V. E., Giustini, M., Kaastra, J. S., King, A. R., Krongold, Y., La Franca, F., Lanzuisi, G., Longinotti, A. L., Luminari, A., Middei, R., Miniutti, G., Nardini, E., Perna, M., Petrucci, P. -O., Piconcelli, E., Ponti, G., Ricci, F., Tombesi, F., **Ursini, F.**, Vignali, C., Zappacosta, L.

[Supermassive Black Hole Winds in X-rays: SUBWAYS. I. Ultra-fast outflows in quasars beyond the local Universe](#)

[2023]

Astronomy & Astrophysics, Volume 670, id.A182

Matzeu, G. A., Brusa, M., Lanzuisi, G., Dadina, M., Bianchi, S., Kriss, G., Mehdipour, M., Nardini, E., Chartas, G., Middei, R., Piconcelli, E., Gianolli, V., Comastri, A., Longinotti, A. L., Krongold, Y., Ricci, F., Petrucci, P. O., Tombesi, F., Luminari, A., Zappacosta, L., Miniutti, G., Gaspari, M., Behar, E., Bischetti, M., Mathur, S., Perna, M., Giustini, M., Grandi, P., Torresi, E., Vignali, C., Bruni, G., Cappi, M., Costantini, E., Cresci, G., De Marco, B., De Rosa, A., Gilli, R., Guainazzi, M., Kaastra, J., Kraemer, S., La Franca, F., Marconi, A., Panessa, F., Ponti, G., Proga, D., **Ursini, F.**, Baldini, P., Fiore, F., King, A. R., Maiolino, R., Matt, G., Merloni, A.

[Polarization constraints on the X-ray corona in Seyfert Galaxies: MCG-05-23-16](#)

[2022]

Monthly Notices of the Royal Astronomical Society, 516, 4, 5907–5913

Marinucci, A., Muleri, F., Dovciak, M., Bianchi, S., Marin, F., Matt, G., **Ursini, F.**, Middei, R., Marshall, H. L. et al.

[Polarization properties of weakly magnetized neutron stars in low-mass X-ray binaries](#)

[2022]

Monthly Notices of the Royal Astronomical Society, Volume 514, Issue 2, pp.2561-2567

Gnarini, A., **Ursini, F.**, Matt, G., Bianchi, S., Capitanio, F., Cocchi, M., Farinelli, R., Zhang, W.

[Investigating the X-ray polarization of lamp-post coronae in BHXRB](#)

[2022]

Monthly Notices of the Royal Astronomical Society, Volume 515, Issue 2, pp.2882-2889

Zhang W., Dovciak M., Bursa M., Karas V., Matt G., **Ursini F.**

[Prospects for differentiating extended coronal geometries in AGNs with the IXPE mission](#)

[2022]

Monthly Notices of the Royal Astronomical Society, Volume 510, Issue 3.

Ursini, F.; Matt, G. ; Bianchi, S.; Marinucci, A.; Dovčiak, M.; Zhang, W.

[REXCOR: A Model of the X-ray Spectrum of Active Galactic Nuclei that Combines Ionized Reflection and a Warm Corona](#)

[2022]

Monthly Notices of the Royal Astronomical Society, Volume 515, Issue 1, pp.353-368

Xiang, X., Ballantyne, D. R., Bianchi, S., De Rosa, A., Matt, G., Middei, R., Petrucci, P. -O., Rózańska, A., **Ursini, F.**

[Transient obscuration event captured in NGC 3227: I. Continuum model for the broadband spectral energy distribution](#)

[2021]

Astronomy and Astrophysics, 652, art. no. A150

Mehdipour, M., Kriss, G.A., Kaastra, J.S., Wang, Y., Mao, J., Costantini, E., Arav, N., Behar, E., Bianchi, S., Branduardi-Raymont, G., Brotherton, M., Cappi, M., De Marco, B., Di Gesu, L., Ebrero, J., Grafton-Waters, S., Kaspi, S., Matt, G., Paltani, S., Petrucci, P.-O., Pinto, C., Ponti, G., **Ursini, F.**, Walton, D.J.

[Hard X-ray selected giant radio galaxies - III. The LOFAR view](#)

[2021]

Monthly Notices of the Royal Astronomical Society, 503 (4), pp. 4681-4699

Bruni, G., Brienza, M., Panessa, F., Bassani, L., Dallacasa, D., Venturi, T., Baldi, R.D., Botteon, A., Drabent, A., Malizia, A., Massaro, F., Röttgering, H.J.A., Ubertini, P., **Ursini, F.**, Van Weeren, R.J.

[Soft gamma-ray selected giant radio galaxies: An update](#)

[2021]

Monthly Notices of the Royal Astronomical Society, 500 (3), pp. 3111-3122

Bassani, L., **Ursini, F.**, Malizia, A., Bruni, G., Panessa, F., Masetti, N., Saviane, I., Monaco, L., Venturi, T., Dallacasa, D., Bazzano, A., Ubertini, P.

[Estimating the size of X-ray lamppost coronae in active galactic nuclei](#)

[2020]

Astronomy and Astrophysics, 644, art. no. A132

Ursini, F., Dovčiak, M., Zhang, W., Matt, G., Petrucci, P.-O., Done, C.

[The soft excess of the NLS1 galaxy Mrk 359 studied with an XMM-Newton-NuSTAR monitoring campaign](#)

[2020]

Astronomy and Astrophysics, 640, art. no. A99

Middei, R., Petrucci, P.-O., Bianchi, S., **Ursini, F.**, Cappi, M., Clavel, M., De Rosa, A., Marinucci, A., Matt, G., Tortosa, A.

[Hard X-ray selected giant radio galaxies - II. Morphological evidence of restarted radio activity](#)

[2020]

Monthly Notices of the Royal Astronomical Society, 494 (1), pp. 902-914

Bruni, G., Panessa, F., Bassani, L., Dallacasa, D., Venturi, T., Saripalli, L., Brienza, M., Hernández-García, L., Chiaraluce, E., **Ursini, F.**, Bazzano, A., Malizia, A., Ubertini, P.

[A broadband X-ray view of the NLSy1 1E 0754.6+3928](#)

[2020]

Astronomy and Astrophysics, 635, art. no. A18

Middei, R., Tombesi, F., Vagnetti, F., Serafinelli, R., Bianchi, S., Miniutti, G., Marinucci, A., Matzeu, G.A., Petrucci, P.-O., **Ursini, F.**, Zaino, A.

[**NuSTAR / XMM-Newton monitoring of the Seyfert 1 galaxy HE 1143-1810: Testing the two-corona scenario**](#)

[2020]

Astronomy and Astrophysics, 634, art. no. A92

Ursini, F., Petrucci, P.-O., Bianchi, S., Matt, G., Middei, R., Marcel, G., Ferreira, J., Cappi, M., De Marco, B., De Rosa, A., Malzac, J., Marinucci, A., Ponti, G., Tortosa, A.

[**Radiation spectra of warm and optically thick coronae in AGNs**](#)

[2020]

Astronomy and Astrophysics, 634, art. no. A85

Petrucci, P.-O., Gronkiewicz, D., Rozanska, A., Belmont, R., Bianchi, S., Czerny, B., Matt, G., Malzac, J., Middei, R., De Rosa, A., **Ursini, F.**, Cappi, M.

[**The coronal temperature of NGC 4388 and NGC 2110 measured with INTEGRAL**](#)

[2019]

Astronomy and Astrophysics, 629, art. no. A54

Ursini, F., Bassani, L., Malizia, A., Bazzano, A., Bird, A.J., Stephen, J.B., Ubertini, P.

[**A Discovery of Young Radio Sources in the Cores of Giant Radio Galaxies Selected at Hard X-Rays**](#)

[2019]

Astrophysical Journal, 875 (2), art. no. 88

Bruni, G., Panessa, F., Bassani, L., Chiaraluca, E., Kraus, A., Dallacasa, D., Bazzano, A., Hernández-García, L., Malizia, A., Ubertini, P., **Ursini, F.**, Venturi, T.

[**Swift/XRT-NuSTAR spectra of type 1 AGN: Confirming INTEGRAL results on the high-energy cut-off**](#)

[2019]

Monthly Notices of the Royal Astronomical Society, 484 (2), pp. 2735-2746

Molina, M., Malizia, A., Bassani, L., **Ursini, F.**, Bazzano, A., Ubertini, P.

[**High-energy monitoring of NGC 4593 II. Broad-band spectral analysis: Testing the two-corona model**](#)

[2019]

Monthly Notices of the Royal Astronomical Society, 483 (4), pp. 4695-4705

Middei, R., Bianchi, S., Petrucci, P.-O., **Ursini, F.**, Cappi, M., De Marco, B., De Rosa, A., Malzac, J., Marinucci, A., Matt, G., Ponti, G., Tortosa, A.

[**An XMM-Newton look at the strongly variable radio-weak BL Lac Fermi J1544-0639**](#)

[2019]

Astronomy and Astrophysics, 622, art. no. A116

Ursini, F., Bassani, L., Panessa, F., Pian, E., Bruni, G., Bazzano, A., Masetti, N., Sokolovsky, K., Ubertini, P.

[**A young and obscured AGN embedded in the giant radio galaxy Mrk 1498**](#)

[2019]

Monthly Notices of the Royal Astronomical Society, 489 (3), pp. 4049-4062

Hernández-García, L., Panessa, F., Bassani, L., Bruni, G., **Ursini, F.**, Chavushyan, V., González-Martín, O., Cazzoli, S., Jiménez-Andrade, E.F., Arévalo, P., Díaz, Y., Bazzano, A., Ubertini, P.

[HST/COS observations of the newly discovered obscuring outflow in NGC 3783](#)

[2019]

Astronomy and Astrophysics, 621, art. no. A12

Kriss, G.A., Mehdipour, M., Kaastra, J.S., Rau, A., Bodensteiner, J., Plesha, R., Arav, N., Behar, E., Bianchi, S., Branduardi-Raymont, G., Cappi, M., Costantini, E., De Marco, B., Di Gesu, L., Ebrero, J., Kaspi, S., Mao, J., Middei, R., Miller, T., Paltani, S., Peretz, U., Peterson, B.M., Petrucci, P.-O., Ponti, G., **Ursini, F.**, Walton, D.J., Xu, X.

[Hard X-ray-selected giant radio galaxies - I. The X-ray properties and radio connection](#)

[2019]

Monthly Notices of the Royal Astronomical Society, 481 (3), pp. 4250-4260

Ursini, F., Bassani, L., Panessa, F., Bird, A.J., Bruni, G., Focchi, M., Malizia, A., Saripalli, L., Ubertini, P.

[NuSTAR view of the Seyfert galaxy HE 0436-4717](#)

[2018]

Astronomy and Astrophysics, 618, art. no. A167

Middei, R., Vagnetti, F., Tombesi, F., Bianchi, S., Marinucci, A., **Ursini, F.**, Tortosa, A.

[Radio/X-ray monitoring of the broad-line radio galaxy 3C 382. High-energy view with XMM-Newton and NuSTAR](#)

[2018]

Monthly Notices of the Royal Astronomical Society, 478 (2), pp. 2663-2675

Ursini, F., Petrucci, P.-O., Matt, G., Bianchi, S., Cappi, M., Dadina, M., Grandi, P., Torresi, E., Ballantyne, D.R., De Marco, B., De Rosa, A., Giroletti, M., Malzac, J., Marinucci, A., Middei, R., Ponti, G., Tortosa, A.

[Where are Compton-thick radio galaxies? A hard X-ray view of three candidates](#)

[2018]

Monthly Notices of the Royal Astronomical Society, 474 (4), pp. 5684-5693

Ursini, F., Bassani, L., Panessa, F., Bazzano, A., Bird, A.J., Malizia, A., Ubertini, P.

[Testing warm Comptonization models for the origin of the soft X-ray excess in AGNs](#)

[2018]

Astronomy and Astrophysics, 611, art. no. A59

Petrucci, P.-O., **Ursini, F.**, De Rosa, A., Bianchi, S., Cappi, M., Matt, G., Dadina, M., Malzac, J.

[Multi-wavelength campaign on NCG 7469 IV. The broad-band X-ray spectrum](#)

[2018]

Astronomy and Astrophysics, 615, art. no. A163

Middei, R., Bianchi, S., Cappi, M., Petrucci, P.-O., **Ursini, F.**, Arav, N., Behar, E., Branduardi-Raymont, G., Costantini, E., De Marco, B., Di Gesu, L., Ebrero, J., Kaastra, J., Kaspi, S., Kriss, G.A., Mao, J., Mehdipour, M., Paltani, S., Peretz, U., Ponti, G.

[Multi-wavelength campaign on NGC 7469: III. Spectral energy distribution and the AGN wind photoionisation modelling, plus detection of diffuse X-rays from the starburst with Chandra HETGS](#)

[2018]

Astronomy and Astrophysics, 615, art. no. A72

Mehdipour, M., Kaastra, J.S., Costantini, E., Behar, E., Kriss, G.A., Bianchi, S., Branduardi-Raymont, G., Cappi, M., Ebrero, J., Di Gesu, L., Kaspi, S., Mao, J., De Marco, B., Middei, R., Peretz, U., Petrucci, P.-O., Ponti, G., **Ursini, F.**

[NuSTAR spectral analysis of two bright Seyfert 1 galaxies: MCG +8-11-11 and NGC 6814](#)

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[2017]

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Monthly Notices of the Royal Astronomical Society, 463 (1), pp. 382-392

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[Anatomy of the AGN in NGC 5548: VIII. XMM-Newton 's EPIC detailed view of an unexpected variable multilayer absorber](#)

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Cappi, M., De Marco, B., Ponti, G., **Ursini, F.**, Petrucci, P.-O., Bianchi, S., Kaastra, J.S., Kriss, G.A., Mehdipour, M., Whewell, M., Arav, N., Behar, E., Boissay, R., Branduardi-Raymont, G., Costantini, E., Ebrero, J., Di Gesu, L., Harrison, F.A., Kaspi, S., Matt, G., Paltani, S., Peterson, B.M., Steenbrugge, K.C., Walton, D.J.

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Astronomy and Astrophysics, 588, art. no. A139

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[Anatomy of the AGN in NGC 5548: IV. the short-term variability of the outflows](#)

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Astronomy and Astrophysics, 579, art. no. A42

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[Anatomy of the AGN in NGC 5548: II. the spatial, temporal, and physical nature of the outflow from HST/COS Observations](#)

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Astronomy and Astrophysics, 577, art. no. A37

Arav, N., Chamberlain, C., Kriss, G.A., Kaastra, J.S., Cappi, M., Mehdipour, M., Petrucci, P.-O., Steenbrugge, K.C., Behar, E., Bianchi, S., Boissay, R., Branduardi-Raymont, G., Costantini, E., Ely, J.C., Ebrero, J., Di Gesu, L., Harrison, F.A., Kaspi, S., Malzac, J., De Marco, B., Matt, G., Nandra, K.P., Paltani, S., Peterson, B.M., Pinto, C., Ponti, G., Pozo Nuñez, F., De Rosa, A., Seta, H., **Ursini, F.**, De Vries, C.P., Walton, D.J., Whewell, M.

[Anatomy of the AGN in NGC 5548: III. the high-energy view with NuSTAR and INTEGRAL](#)

[2015]

Astronomy and Astrophysics, 577, art. no. A38

Ursini, F., Boissay, R., Petrucci, P.-O., Matt, G., Cappi, M., Bianchi, S., Kaastra, J., Harrison, F., Walton, D.J., Di Gesu, L., Costantini, E., De Marco, B., Kriss, G.A., Mehdipour, M., Paltani, S., Peterson, B.M., Ponti, G., Steenbrugge, K.C.

[Anatomy of the AGN in NGC 5548: I. A global model for the broadband spectral energy distribution](#)

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Astronomy and Astrophysics, 575, art. no. A22

Mehdipour, M., Kaastra, J.S., Kriss, G.A., Cappi, M., Petrucci, P.-O., Steenbrugge, K.C., Arav, N., Behar, E., Bianchi, S., Boissay, R., Branduardi-Raymont, G., Costantini, E., Ebrero, J., Di Gesu, L., Harrison, F.A., Kaspi, S., De Marco, B., Matt, G., Paltani, S., Peterson, B.M., Ponti, G., Nuñez, F.P., De Rosa, A., **Ursini, F.**, De Vries, C.P., Walton, D.J., Whewell, M.

[A fast and long-lived outflow from the supermassive black hole in NGC 5548](#)

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Science, Volume 345, Issue 6192, pp. 64-68

Kaastra, J.S., Kriss, G.A., Cappi, M., Mehdipour, M., Petrucci, P.-O., Steenbrugge, K.C., Arav, N., Behar, E., Bianchi, S., Boissay, R., Branduardi-Raymont, G., Chamberlain, C., Costantini, E., Ely, J.C., Ebrero, J., Di Gesu, L., Harrison, F.A., Kaspi, S., Malzac, J., De Marco, B., Matt, G., Nandra, K., Paltani, S., Person, R., Peterson, B.M., Pinto, C., Ponti, G., Pozo Nuñez, F., De Rosa, A., Seta, H., **Ursini, F.**, De Vries, C.P., Walton, D.J., Whewell, M.

[Probing restarting activity in hard X-ray selected giant radio galaxies](#)

[2018]

Proceedings of the International Astronomical Union, 14 (A30), pp. 66-69

Bruni, G., **Ursini, F.**, Panessa, F., Bassani, L., Bazzano, A., Bird, A.J., Chiaraluce, E., Dallacasa, D., Focchi, M., Giroletti, M., Hernández-García, L., Malizia, A., Molina, M., Saripalli, L., Ubertini, P., Venturi, T.

[High-energy monitoring of Seyfert galaxies: The case of NGC 4593](#)

[2016]

Astronomische Nachrichten, 337 (4-5), pp. 552-556

Ursini, F., Petrucci, P.-O., Matt, G., Bianchi, S., Cappi, M., De Marco, B., De Rosa, A., Malzac, J., Ponti, G.

Proceeding of *The Extremes of Black Hole Accretion* (Madrid, 2015)

[XIPE: The X-ray imaging polarimetry explorer](#)

[2016]

Proceedings of SPIE - The International Society for Optical Engineering, 9905, art. no. 990515

Soffitta, P. et al.

[Probing the physics of compact extragalactic sources over multiple scales](#)

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Memorie della Società Astronomica Italiana, Vol. 93, No. 2-3, 2022, p. 88

Pian, E., Anghinolfi, M., Ciroi, S., Panessa, F., Raiteri, C. M., Vercellone, S., Bassani, L., Bazzano, A., Berton, M., Bodo, G., Bruni, G., Calcidese, P., Capetti, A., Carnerero, M. I., Christille, J. M., Gardini, A., Ghisellini, G., Kulikovskiy, V., Malizia, A., Molina, M., Palazzi, E., Rafanelli, P., Righi, C., Rossi, P., Sanguineti, M., Tavecchio, F., Ubertini, P., **Ursini, F.**, Villata, M., Zanni, C.

CONFERENCES AND SEMINARS

TORUS 2022 Workshop

[Leiden, 13 Dec 2022 – 15 Dec 2022]

Contributed talk: *IXPE measurement of the X-ray polarization of the torus in the Circinus Galaxy*

Link: <https://www.torus2022.nl/program.html>

31st Texas Symposium on Relativistic Astrophysics

[Prague, Czechia, 12 Sep 2022 – 16 Sep 2022]

Contributed talk: *Constraining X-ray coronae with spectropolarimetry*

Link: <https://texas2021.org/contributions>

44th COSPAR Scientific Assembly - COSPAR 2022

[Athens, Greece, 15 Jul 2022 – 23 Jul 2022]

Invited talk: *X-ray spectroscopy of AGN: the soft excess and implications for warm coronae*

Contributed talk: *Neutron star low-mass X-ray binaries in the IXPE era*

Links: https://www.cospar-assembly.org/admin/session_cospar.php?session=1065 | https://www.cospar-assembly.org/admin/session_cospar.php?session=1071

From the Dolomites to the event horizon

[Sesto Val Pusteria, Italy, 3 Jul 2022 – 7 Jul 2022]

Invited talk: *Warm coronae: Theory and Observations*

Link: <http://www.sekten-cfa.eu/event/dolomites-2022/>

NuSTAR Science Meeting 2022: Ten Years of the High Energy Universe in Focus

[Cagliari, Italy, 20 Jun 2022 – 22 Jun 2022]

Contributed talk: *Constraining X-ray coronae with spectropolarimetry: NuSTAR with IXPE*

Link: <https://nustar.github.io/nustar2022/program.html>

Active Galactic Nuclei 14 - The Renaissance of Black Holes and Galaxies

[Florence, Italy, 23 May 2022 – 27 May 2022]

Contributed talk: *Constraining AGN coronae with spectropolarimetry*

Link: <https://indico.ict.inaf.it/event/949/contributions/6537/>

1st Mondragone Frontiers of Astronomy Series

[Monte Porzio Catone, Italy, 18 May 2022 – 20 May 2022]

Contributed talk: *Warm corona model for the soft X-ray excess of AGN: observational and theoretical constraints*

Link: <https://astrodragon.web.roma2.infn.it/schedule/>

FERO 10 - Finding Extreme Relativistic Objects

[Toulouse, France, 29 Mar 2022 – 31 Mar 2022]

Contributed talk: *Estimating the size of X-ray lamp-post coronae in active galactic nuclei*

Link: <https://fero10.sciencesconf.org/program>

AGN and Polarimetry Conference

[Strasbourg (online), 30 Nov 2020 – 10 Dec 2020]

Contributed talk: *Constraining AGN coronae with X-ray polarimetry*

Link: <https://polagn.astro.unistra.fr/Program.html>

X-ray Astronomy 2019

[Bologna, Italy, 7 Sep 2019 – 12 Sep 2019]

Poster: *Restarting activity in hard X-ray selected giant radio galaxies*

Link: https://indico.ict.inaf.it/event/720/attachments/1383/4726/POSTERS_LISTS_FINAL.pdf

12th INTEGRAL Conference

[Geneve, Switzerland, 10 Feb 2019 – 14 Feb 2019]

Contributed talk: *High-energy view of hard X-ray selected radio galaxies*

Link: <https://www.astro.unige.ch/integral2019/conference-program>

Active Galactic Nuclei 13 - Beauty and the Beast

[Milan, Italy, 8 Oct 2018 – 11 Oct 2018]

Contributed talk: *The high-energy view of Seyfert galaxies through broad-band monitoring campaigns*

Poster: *Soft gamma-ray selected radio galaxies: a high-energy view of jetted AGNs*

Links: https://indico.ict.inaf.it/event/524/attachments/1018/2801/Scientific_Programme.pdf | <https://ui.adsabs.harvard.edu/#abs/2018agn..confE..31U/abstract> | <https://ui.adsabs.harvard.edu/#abs/2018agn..confE..32U/abstract>

IAU Focus Meeting FM3 - Radio Galaxies: Resolving the AGN phenomenon

[Vienna, Austria, 21 Aug 2018 – 22 Aug 2018]

Poster: *Soft gamma-ray selected radio galaxies: a high-energy view of jetted AGNs*

Link: <https://astronomy2018.univie.ac.at/PosterAbstracts/posterFM03>

The radio and X-ray connection in accreting objects

[Monopoli, Italy, 20 May 2018 – 24 May 2018]

Contributed talk: *Restarting activity in hard X-ray selected giant radio galaxies?*

Link: https://docs.wixstatic.com/ugd/f57b67_cdf9cee42c4e464588add1d2390458b6.pdf

INTEGRAL Symposium 2017

[Venice, Italy, 14 Oct 2017 – 19 Oct 2017]

Contributed talk: *Where are Compton-thick radio galaxies?*

Link: <http://www.iaps.inaf.it/sz/integral2017/programme.html>

From the Dolomites to the event horizon

[Sesto Val Pusteria, Italy, 9 Jul 2017 – 13 Jul 2017]

Contributed talk: *X-ray monitoring of Seyfert galaxies: NGC 4593 and 3C 382*

Link: <https://docs.google.com/file/d/1Dy-HskJfITrJ8ECVFnUXBKgL2ijuroBo/view>

Active Galactic Nuclei 12 - A Multi-Messenger perspective

[Naples, Italy, 25 Sep 2016 – 28 Sep 2016]

Contributed talk: *High-energy monitoring of NGC 4593 with XMM-Newton and NuSTAR*

Links: http://astrofisica.fisica.unina.it/AGN12/AGN12/Scientific_program.html | <https://ui.adsabs.harvard.edu/#abs/2016agnt.confE..46U/abstract>

From the Dolomites to the event horizon

[Sesto Val Pusteria, Italy, 12 Jul 2015 – 16 Jul 2015]

Contributed talk: *High-energy monitoring of Seyfert galaxies: the case of NGC 5548 and NGC 4593*

Link: https://docs.google.com/file/d/1jr3QSE8gLWDH0o825XouZdhJ_R1hjWIE/view

The Extremes of Black Hole Accretion

[Madrid, Spain, 7 Jun 2015 – 9 Jun 2015]

Contributed talk: *High-energy monitoring of Seyfert galaxies: The case of NGC 4593*

Links: <https://www.cosmos.esa.int/documents/332006/514955/programme.pdf> | <https://ui.adsabs.harvard.edu/#abs/2016AN....337..552U/abstract>

NuSTAR Science Team Meeting

[Bologna, Italy, 23 Mar 2015 – 25 Mar 2015]

Contributed talk (AGN splinter session): *The NuSTAR spectrum of NGC 7213*

Link: <https://sites.google.com/site/nustarteammeeting/program>

Active Galactic Nuclei 11 - Where Black Holes and Galaxies Meet

[Trieste, Italy, 22 Sep 2014 – 25 Sep 2014]

Contributed talk: *Anatomy of the AGN in NGC 5548*

Link: <http://adlibitum.oats.inaf.it/meetings/AGN11-Sept2014/program.html>

The X-ray Universe 2014

[Dublin, Ireland, 15 Jun 2014 – 18 Jun 2014]

Contributed talk: *Anatomy of the AGN in NGC 5548: the XMM/NuSTAR/INTEGRAL view*

Links: <https://www.cosmos.esa.int/documents/332006/744603/programme.pdf> | <https://ui.adsabs.harvard.edu/#abs/2014xru..confE.199U/abstract>

Active Galactic Nuclei 10 - Dall'orizzonte degli eventi all'orizzonte cosmologico

[Rome, Italy, 9 Sep 2012 – 11 Sep 2012]

Contributed talk: *Obscuration in Seyfert Galaxies by Broad Line Region clouds*

Link: <http://webusers.fis.uniroma3.it/~agn10/programma.php>