

## CRISTIAN VIGNALI

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Observational astrophysicist. Interests include physics and evolution of Active Galactic Nuclei (AGN), galaxy evolution, high-redshift Universe, dual and binary AGN, AGN feedback, obscured accretion through cosmic time, changing-look AGN.

He owns the *Abilitazione scientifica nazionale* for *professori di prima fascia* 02/C1 since 29.11.2017 (valid till 29.11.2029).

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### PERSONAL DATA

Place and date of birth: Rimini, January 16<sup>th</sup>, 1972  
Nationality: Italian  
Address: Via B. Lanzarini, 10 – 40127 Bologna

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### EDUCATION

**Bologna University** — PhD in Astronomy, February 2001 (thesis on *The High-Energy Large Area Survey: probing the multiwavelength properties of the sources making the hard X-ray background*); supervisors: Prof. G.G. Palumbo, Dr. A. Comastri.

**Bologna University** — Laurea Degree in Astronomy, July 1996 (110/110 *cum laude*; thesis *On the X-ray absorption in Active Galactic Nuclei*); supervisors: Prof. G.G. Palumbo, Dr. A. Comastri.

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### APPOINTMENTS

**Dipartimento di Fisica e Astronomia “Augusto Righi”, Università degli Studi di Bologna**

Associate Professor since September 2014

Researcher, January 2005 – September 2014

**Dipartimento di Astronomia, Università di Bologna**

Post-doctoral fellow, June 2004–January 2005

**Osservatorio Astronomico di Bologna**

Post-doctoral fellow, April 2003–May 2004

**Dept. of Astronomy & Astrophysics, The Pennsylvania State University**

Post-doctoral scholar, April 2001–March 2003

**Osservatorio Astronomico di Bologna**

Post-doctoral fellow, December 2000–March 2001

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### RESEARCH AREAS (IN A NUTSHELL)

As mid April, 2026:

- 444 referred papers (24 as first author), 31 referred proceedings (4), 80 proceedings (21). Co-author of 13 papers in support of missions and two ESO Messenger articles.
- About 27534 citations, H-index=85 (selecting refereed + articles in ADS).
- Active role in many international collaborations, including those planning missions.
- 63 oral contributions (14 as invited) and a couple of concluding remarks).
- Many successful proposals as PI and co-I.
- Many accepted grant proposals (US, Italy) as PI and co-I.
- Main expertise (including multi-wavelength data reduction, analysis, and interpretation) in the following fields:
  - Properties of high-redshift AGN and their evolution across cosmic time.
  - X-ray spectral studies and characterization of local AGN and investigation of their multi-wavelength properties.
  - Search for obscured AGN through X-rays, mid-IR, and optical diagnostics, and across cosmic time. Properties of the obscuring medium.
  - Spectral energy distributions of AGN: accretion vs. star formation.
  - Multiwavelength investigations on the role of AGN feedback across cosmic time.
  - Dual and multiple AGN systems at low and high-redshift in the era of gravitational waves and multimessenger astronomy. Quest for binary AGN candidates.
  - Changing-look AGN.

### MAIN INTERNATIONAL COLLABORATIONS

Member of the *Chandra*-COSMOS Legacy collaboration; *Chandra*/XMM-COSMOS collaborations; *Chandra*/XMM Deep Field South collaboration; *Chandra* Deep Field North collaboration; XXL collaboration (member of the steering committee; Italian deputy for AGN science; co-chair of the AGN working group; member of the XXL-HSC joint working group); SUPER collaboration; X-SERVS collaboration; WISSH collaboration; HYPERION collaboration; J1030 collaboration; *NewAthena* consortium; *Euclid* consortium (and member of the WP8-9 packages); *Lynx* (NASA concept study) consortium; *SPICA* consortium; MOONS consortium; LGWA consortium; LISA consortium (since 2020); Einstein Telescope consortium; AtLAST consortium; CTAO consortium; LBT/SHARK consortium; X-EDFF (XMM-Newton Heritage in the Euclid Fornax Field) collaboration.

### PARTICIPATION IN FUTURE MISSIONS

- Member of the “High-redshift Universe” panel for the NASA mission *Constellation-X*.
- Among the co-Is of the *XEUS* proposal for the ESA Cosmic Vision (future missions).
- Among the co-Is of the *Athena+* proposal for the ESA Cosmic Vision (future missions).
- Active member of the science working groups on “Formation and early growth of black holes” and “Accretion through cosmic time” in the *Athena* consortium.
- Support member of the science working groups on *NewAthena* WG2 (“Galaxies and

supermassive black holes”) and WG5 (“Transients and multi-messenger astrophysics”).

- Active member of the *Euclid* Science work package WP9 (“Type 1 and 2 AGN”) and WP8 (“Multi-wavelength synergies”).
- Member of the *Lynx* WG on large-scale structure and High-redshift Universe.
- Member of the *SPICA* consortium (passed to the first selection of ESA M5) and *co-chair* of the TWP2 package (“Synergies with Athena”).
- Member of the MOONS consortium (WG5 on AGN).
- Member of the LISA consortium (Astrophysics WG).
- Member of the LGWA consortium (co-chair of the intermediate-mass black hole - IMBH - WG for the White Paper).
- Member of the Einstein Telescope consortium.
- Member of the AtLAST consortium (WPs on “Nearby Galaxies” and “Distant Universe”); co-author of the “Time Domain and Variability” section of the White Paper.
- Involved in the *PRIMA* (NASA IR mission under study) activities.
- Member of the SHARK@LBT science consortium.

### ORGANIZATION OF SCIENTIFIC MEETINGS AND WORKSHOPS (SOC/LOC)

- Member of the SOC and LOC for the “X-ray Astronomy 2009. Present status, multi-wavelength approach and future perspectives” (Bologna, September 2009).
- Member of the LOC for the 9<sup>th</sup> AGN conference “Black Hole and Revelation” (Ferrara, May 2010).
- Member of the LOC for the Workshop “Whereabouts, Physical State and Metallicity of the Missing Baryons in the Local Universe” (Cervia, May 2012).
- Co-organizer of “The high-redshift Universe” Workshop (Bologna, June 2012).
- Member of the SOC for the XXL 2014 consortium meeting (Sexten, June 2014).
- Member of the LOC for the *NuSTAR* meeting 2015 (Bologna, March 2015).
- Member of the SOC for the XXL 2015 consortium meeting (Mljet, June 2015).
- Member of the SOC for the XXL 2016 consortium meeting (Mykonos, June 2016).
- Member of the SOC for the international conference “Hot spots in the XMM sky: cosmology from X-ray to radio” (Mykonos, June 2016).
- Member of the SOC for the EWASS 2016 SS05 “A multi-messenger view of mergers and multiple supermassive black holes” (Athens, July 2016).
- Member of the SOC for the XXL 2017 consortium meeting (St-Jakut, October 2017).
- Co-organizer of the Workshop at the Lorenz Center “The Quest for Multiple Supermassive Black Holes: A Multi-Messenger View” (Leiden, November 2017).
- Member of the SOC for the EWASS 2019 SS7 “Dual Nuclei in Late Stage Galaxy Mergers and their Effect on Galaxy Evolution” (Lyon, June 2019).
- Co-chair of the LOC for the meeting “Views on the Interstellar Medium in galaxies in the ALMA era” (Bologna, September 2019).
- Member of the SOC for the meeting “X-ray Astronomy 2019. Current Challenges and New Frontiers in the Next Decade” (Bologna, September 2019).
- Member of the SOC for the COSPAR 2022 event E1.7 “Properties and Evolution of Active Galactic Nuclei in Galaxy Clusters” (Athens, July 2022).

- Co-organizer of the Workshop “HSC: HYPERION, WISSH & Friends” (Bologna, June 2023).
- Member of the SOC for the EAS 2023 SS17 “The Last Kiloparsecs: From Dual AGN to Massive Black Hole Binary Mergers” (Cracow, July 2023).
- Member of the SOC for the CTAO PhD School on Gamma-ray Astronomy (Bertinoro, June 2024).
- Co-chair of the LOC for the meeting “Views on the multi-phase Interstellar medium in Galaxies” (Bologna, September 2024).
- Chair of the SOC/LOC for the IFPU Focus Week Program “The quest for dual and binary supermassive black holes in the multi-messenger era” (Trieste, January 2025).
- Co-organizer of the Workshop “Quasar 2025” (Bologna, May 2025).
- Member of the SOC for the CTAO PhD School on Gamma-ray Astronomy (Bertinoro, June 2025).
- Member of the SOC and LOC of the Workshop “Mosaic telescopes Technology and Science: from tiny reflecting tiles to big astronomical mirrors. A workshop in honor of Guido Horn d’Arturo” (Bologna, January 2026).
- Co-organizer of the Workshop on “Dual and Binary AGN” (Leiden, March 2026).
- Member of the SOC for the XVI Italian AGN Conference “A Sea of Discoveries” (Brindisi, June 2026).

#### REFeree FOR PAPERS/OBSERVING PROPOSALS/RESEARCH PROJECTS/AWARDS

- Regular referee for some of the major astronomical journals (ApJ, AJ, MNRAS, A&A, New Astronomy, EXPA, Universe).
- Referee for X-ray (XMM-Newton, Chandra, and NuSTAR) proposal evaluation.
- Referee for optical (OPTICON, GTC, TNG, LBT) proposal evaluation.
- Referee for the ALMA Large-project proposals.
- Referee for ERC Advanced Grants proposals.
- Referee for CONICYT Grants proposals.
- Referee for FIRB (MIUR) proposals.
- Referee for papers submitted to VQR.
- Referee for the Flanders Research Foundation (FWO) post-doctoral fellowships.
- Referee for the Rita Levi Montalcini fellowships.
- Referee for the Premio Lorenzoni (2022).
- Co-editor of the Section “Active Galactic Nuclei in X-rays and Gamma-rays” for the Handbook of X-ray and Gamma-ray Astrophysics (Springer, 2022).

#### DATA REDUCTION AND ANALYSIS. GENERIC SKILLS

- Large experience in X-ray data reduction and analysis, and interpretation of data obtained from the main telescopes of the last 30 years (e.g., ROSAT, ASCA, BeppoSAX, Suzaku, Chandra, XMM-Newton, Swift, NuSTAR) using some of the main software packages (XSPEC, FTOOLS, XSELECT, XIMAGE, XRONOS, CIAO, SHERPA, SAS, MIDAS).
- Experience in optical photometric and spectroscopic data reduction and analysis using IRAF and MIDAS.

- Some experience in sub-mm data reduction and analysis using SURF.
- Some experience with MUSE data.
- Experience with photometric redshift packages (e.g., HYPERZ), tools for survival and partial correlation analysis.
- Experience with several spectral energy distribution codes.
- Some experience with HYPE for far-infrared data analysis.
- Large experience in programming (FORTRAN language); some basic knowledge of IDL and TCL/TK.
- Large experience in managing large catalogs and astronomical databases (e.g., using custom codes of TOPCAT).

## DIRECT OBSERVING EXPERIENCE

- Two optical photometric and spectroscopic observing runs at ESO 3.6m Telescope at La Silla (Chile). Results were published in few papers and partly in my PhD thesis.
- Two optical photometric observing runs at 1.5m Telescope at S. Pedro Martir (Mexico). Results were published mostly in my PhD thesis.
- Three photometric and spectroscopic (optical/near-IR) observing runs at the 3.5m Italian National Telescope (TNG) at La Palma (Canary Islands). Results were published in few articles.
- Observing run in the sub-millimeter band ( $850\mu\text{m}$ ) with *SCUBA* in Hawaii (observing time granted after application to international time). Results were published in a paper.

## PROPOSAL EXPERIENCE

Below is a list, likely incomplete, of accepted proposals; in some cases, the period to which the proposals refer is also indicated. The observations as PI are highlighted in black boldface. Large, Very-large, Visionary, (multi-year) Heritage, and Strategic (multi-year) programs are reported in blue boldface. As a side note: Priority A and B observations are carried out, while priority C are not guaranteed. For NOEMA/IRAM, proposals in the same year and with the same title can be present: they refer to two different calls in the same year.

## OPTICAL/NEAR-IR

### ESO accepted proposals [Cycles 113–, i.e. included in the ESO Portal]

- P117** *Cosmic Twins: Exploring the First Dual AGN Fraction*. PI: M. Scialpi. 103.7h. **Large Program.**
- P117** *ERIS GTO: The properties of the elusive population of dual AGNs with sub-arcsec separations*. PI: F. Mannucci. 24.1h.
- P116** *Cosmic Twins: Exploring the First Dual AGN Fraction with FORS2*. PI: M. Scialpi. 25.3h.
- P116** *ERIS GTO: The properties of the elusive population of dual AGNs with sub-arcsec separations*. PI: F. Mannucci. 12.7h.
- P115** *ERIS GTO: The properties of the elusive population of dual AGNs with sub-arcsec separations*. PI: F. Mannucci. 8h.
- P114** *Cosmic Duets: Decoding Gravitational Waves with Dual AGN.*. PI: M. Scialpi. 138.5h. **Large Program.**
- P114** *ERIS GTO: The properties of the elusive population of dual AGNs with sub-arcsec separations*. PI: F. Mannucci. 21.0h.

- P114** *Heavily Obscured AGN - testing the radio selection technique.* PI: G. Mazzolari. 25h.
- P114** *Nuclear feedback and SMBH growth in quasars at the Reionization Epoch.* PI: L. Zappacosta. 45.3h.
- P114** *ERIS GTO: The properties of the elusive population of dual AGNs with sub-arcsec separations.* PI: F. Mannucci. 4.5h.
- P113** *Gas-phase metallicities in  $z\sim 2$  AGN: the need for optical diagnostics of the ionized gas.* PI: A. Feltre. 9.0h.
- P113** *NTT spectroscopy of multiple AGN candidates identified with Gaia.* PI: M. Scialpi. 41.3h.
- P113** *Searching for the missing galactic outflows in low  $M^*$  galaxies with EFOSC2.* PI: J.B. Hagedorn. 77.8h.
- P113** *Tracing the structure of an assembling  $z\sim 2.8$  protocluster with FORS2.* PI: S. Marchesi. 11.7h.

### LBT accepted proposals [2017–]

- 2024** *Probing merger-driven obscuration of a Compton-thick AGN by the X-ray source 2XMM J155039-03533.* PI: R. Serafinelli. 0.7h
- 2024** *Dual AGN with SHARK-NIR.* PI: F. Mannucci. 11h.
- 2024** *Completing the census of the galaxy population in a gas-rich  $z\sim 2.3$  protocluster with an Enormous Lya Nebula.* PI: F. Vito. 1.2h.
- 2024** *Unveiling the Compton-thick AGN population using radio emission.* PI: G. Mazzolari. 20h.
- 2023** *Disclosing type 2 dual AGN: the LBT+SOUL pioneering challenge.* **PI: C. Vignali. 6.6h.**
- 2023–24** *SQUEEzE: the Study of the QUasar Environment at Early- $z$  Epoch.* PI: F. Vito. 80h.
- Strategic program.**
- 2023** *Completing the census of the galaxy population in a gas-rich  $z\sim 2.3$  protocluster with an Enormous Lya Nebula.* PI: F. Vito. 3h.
- 2023** *Digging heavily obscured AGN at  $z>3$  using radio selection.* PI: G. Mazzolari. 16h.
- 2023** *Tracing the structure of an assembling  $z\sim 2.8$  protocluster with MODS.* PI: S. Marchesi. 12h.
- 2023** *Short-term variability of ultra-fast outflows in luminous quasars at Cosmic Noon.* PI: G. Vietri. 24h.
- 2022** *Are Dual AGN the fate of merging galaxies?* PI: P. Severgnini. 14.4h.
- 2022** *Heavily obscured AGN at high redshift: a prototypical candidate.* PI: G. Mazzolari. 3h.
- 2022** *UV spectral monitoring of ultra-fast outflows in luminous quasars at Cosmic Noon.* PI: G. Vietri. 12h.
- 2021** *Type 2 dual AGN: the LBT+SOUL pioneering challenge.* PI: P. Severgnini. 6.8h.
- 2021** *Spectroscopically confirming with MODS three candidate obscured  $z>5$  AGN in the deep J1030 Field.* PI: S. Marchesi. 8h.
- 2021** *Probing the role of nuclear winds in shaping the AGN radiation output in luminous quasars.* PI: E. Piconcelli. 5.5h.
- 2021-DDT** *Probing the extreme variability of a super-Eddington accreting QSO at the Cosmic Dawn.* PI: F. Vito. 4.2h.
- 2018** *Searching for dual double-peaked AGN with LBT.* PI: P. Severgnini. 3.2h.
- 2017** *Bringing the dual AGN search to the next level.* PI: P. Severgnini. 3.2h.
- 2017–18** *The wide-and-deep survey around the  $z\sim 6.31$  QSO SDSS J1030+0524: an INAF-LBT legacy field.* PI: R. Gilli. 52h. **Strategic program.**

### TNG accepted proposals

- AOT52/2025B** *Cosmic Twins: Exploring the First Dual AGN Fraction with DOLORES.* PI: M. Scialpi. 40h.
- AOT51/2025A** *An extremely X-ray variable QSO at Cosmic Dawn: the answer might be blowing in the wind.* PI: F. Vito. 1h.
- AOT50-2024B** *Dolores spectroscopy of dual and lensed AGN identified with Gaia.* PI: M. Scialpi. 36h.
- AOT49-2024A** *Quasi-simultaneous X-ray and rest-frame UV light-curves of a remarkably variable QSO at the Cosmic Dawn.* PI: F. Vito. 1h.
- AOT48-2023B** *Dolores spectroscopy of multiple AGN candidates identified with Gaia.* PI: M. Scialpi. 45h.

**AOT48-2023B** *Searching for the missing galactic outflows in low- $M_*$  galaxies.* PI: C. Vignali. 33h.  
**AOT47-2023A** *Spectroscopy of dual- and lensed- AGNs candidates identified with Gaia.* PI: M. Scialpi. 27h.  
**AOT47-2023A** *Quasi-simultaneous X-ray and rest-frame UV light-curves of a remarkably variable QSO at the Cosmic Dawn.* PI: F. Vito. 1h.  
**AOT47-2023A** *The TNG view of luminous quasars at the Epoch of Reionization.* PI: I. Saccheo. 14.5h.  
**AOT46/2022B** *Spectroscopy of dual- and lensed- AGN candidates identified with Gaia.* PI: F. Mannucci. 22h.  
**AOT45/2022A** *Spectroscopy of dual- and lensed- AGN candidates identified with Gaia.* PI: F. Mannucci. 9h.  
**AOT45/2022A** *The TNG view of luminous quasars at the Epoch of Reionization.* PI: L. Zappacosta. 20.5h.  
**AOT42/2020B** *Probing the most luminous QSOs in the universe by completing the NIR photometry of the WISSH sample.* PI: V. Testa. 9h.  
**AOT37/2018A** *Probing the most luminous QSOs in the universe by completing the NIR photometry of the WISSH sample.* PI: V. Testa. 13h.  
**AOT35/2017A** *Constraining the nature of a serendipitously discovered ultracompact X-ray binary.* PI: M. Cadelano. 4h.  
**AOT33/2016A** *Eddington ratios and ionized outflows in hyper-luminous quasars at  $z\sim 2-4$ .* PI: G. Vietri. 4h.  
**AOT24/2011B** *The First Direct Measure of the Complete (AGN1+AGN2) Local Black Hole Mass Function of the AGN.* PI: F. La Franca. 25h.  
**AOT23/2011A** *Spectroscopic identification of elusive, highly obscured, type 2 QSOs.* PI: F. La Franca. 8h.  
**AOT23/2011A** *Spectroscopy and photometry in the AGN nursery around the Galaxy Cluster MS 1137.5+6625.* PI: N. Cappelluti. 24h.  
**AOT22/2010B** *Observing the obscured phase of QSO evolution in the interacting galaxy pair IRAS 20210+1121.* PI: E. Piconcelli. 0.5h.  
**AOT13/2006A** *Tracing an AGN cosmic filament at  $z\sim 0.3$ .* PI: R. Gilli. 4h.

### WIRCAM accepted proposals

**2015** *A large-scale galaxy overdensity around the  $z\sim 6.28$  QSO SDSSJ1030+0524.* PI: R. Gilli. 6h.

### VST

**2026-DDT** *Chasing a  $\sim 160$ -day period SMBH binary candidate.* PI: B. Sala, 1.7h.

### SALT accepted proposals

**2020** *SALT Spectroscopic Survey of IR 12MGS Seyfert Galaxies.* PI: L. Marchetti.

**2018** *SALT Spectroscopic Survey of IR 12MGS Seyfert Galaxies.* PI: L. Marchetti.

### Loiano accepted proposals [2020-]

**2021, 2022, 2024, 2025** *The challenging case of Super-Massive Black Hole binaries.* PI: M. Dadina. Long-term monitoring of two SMBH binary candidates.

### JWST accepted proposals

**Cycle 5** *Unveiling the hidden nature of highly-ionizing objects at Cosmic Dawn.* PI: M. Castellano. 43.3h.

**Cycle 3** *MIRACLE: Mid-IR Activity of Circumnuclear Line Emission.* PI: C. Marconcini. 53.3h.

**Cycle 2** *JWST/MIRI unravels the impact of AGN feedback on star-formation at Cosmic Noon.* PI: V. Mainieri. 19.3h.

**Cycle 2** *A systematic search for warm molecular gas in AGN and star forming galaxies at  $z\sim 2$  with MIRI.* PI: D. Kakkad. 25.9h.

### HST accepted proposals

**Cycle 27** Supermassive Black Hole Winds in X-rays (SUBWAYS): Building the HST Line with FUV Spectroscopy. PI: G. Kriss. 27 orbits.

## MILLIMETER/SUB-MILLIMETER

### ALMA accepted proposals

- 2025** *The first ALMA observations of 11 high- $z$  dual active galactic nuclei.* PI: A. Jana. Priority B.
- 2024** *ISM at Cosmic Noon: star-formation and AGN activity resolved down to kpc-scales.* PI: I. Lamperti. Priority C.
- 2024** *Dust polarization in a dual AGN host galaxy undergoing powerful feedback.* PI: C. Cicone. Priority A.
- 2023** *Unveiling the effect of AGN activity on CO excitation at Cosmic Noon.* PI: C. Circosta. Priority A.
- 2023** *Illuminating the dark side of star formation at  $z > 3$ .* PI: F. Gentile. Priority C.
- 2022** *How common are extreme molecular haloes around  $z \sim 2$  quasars?* PI: V. Mainieri. Priority C.
- 2022** *Unveiling NGC 7479 torus innermost structure with ALMA.* PI: A. Pizzetti. Priority C.
- 2021** *Properties of the most extended molecular halo ever observed.* PI: C. Circosta. Priority C.
- 2021** *How common are extreme molecular haloes around  $z \sim 2$  quasars?* PI: V. Mainieri. Priority C.
- 2021** *Unveiling the AGN impact on the ISM in local Seyfert2 galaxies by tracing the dense gas at sub-kpc scale.* PI: F. Salvestrini. Priority C.
- 2021** *Forging the core of a galaxy cluster: molecular gas properties and AGN feedback of a proto-BCG at  $z \sim 1.7$ .* PI: Q. D'Amato. Priority C.
- 2019** *Detecting the molecular CGM around an AGN at  $z \sim 2$ .* PI: V. Mainieri. Priority C.
- 2019** *ALMA spectroscopic follow-up of high- $z$  low-luminosity AGN candidates in the CDF-S.* PI: F. Vito. Priority C.
- 2019** *High resolution investigation in the core of the “baby” quasar IRAS 00183-7111.* PI: I. Ruffa. Priority C.
- 2019** *Building the spatially resolved CO SLED of the most luminous QSO in the local Universe.* PI: M. Bischetti. Priority C.
- 2018** *The Making of a local galaxy cluster: star formation and AGN feedback in a proto-cluster at  $z \sim 1.69$ .* PI: R. Gilli. Priority B.
- 2018** *A SUPER spatially-resolved assessment of the impact of AGN-driven outflows.* PI: C. Harrison. Priority B.
- 2017** *The environment of early supermassive black holes: ALMA observations of a flagship field.* PI: R. Gilli. Priority C.
- 2017** *Magnified views of the molecular gas of the  $z \sim 1.51$  lensed AGN HS 0810+2554.* PI: G. Chartas. Priority C.
- 2017** *SUPER-ALMA v2: gas fractions and depletion timescales in AGN hosts at  $z \sim 2$ .* PI: V. Mainieri. Priority C.
- 2017** *AGN winds: combining insights from millimetre and X-ray observations.* PI: P. Severgnini. Priority C.
- 2016** *Communicating the energy: coupling nuclear power and molecular gas in PDS 456.* PI: E. Piconcelli. Priority A.
- 2016** *SUPER-ALMA: gas fractions and depletion timescales in AGN hosts at  $z \sim 2$ .* PI: V. Mainieri. Priority C.
- 2016** *AGN winds: combining insights from millimetre and X-ray observations.* PI: P. Severgnini. Priority B.
- 2015** *The early coevolution of galaxies and black holes.* PI: R. Gilli. Priority C.
- 2015** *Mapping the feedback effects on the gas reservoir in a  $z \sim 1.6$  QSO.* PI: M. Brusa. Priority A.
- 2013** *The early coevolution of galaxies with their black holes.* PI: R. Gilli. Priority C.
- 2011** *An ideal laboratory to study BH-galaxy co-evolution in the early Universe.* PI: R. Gilli. Priority B.
- 2011** *Witnessing a rare phase of the galaxy/AGN co-evolution at  $z \sim 2$ .* PI: F. Pozzi. Priority C.
- 2011** *Feedback and the built up of super-massive black holes.* PI: C. Feruglio. Priority C.

### NOEMA/IRAM accepted proposals

- 2026** NOEMA-traced multi-phase AGN feedback up to  $z\sim 4$ . PI: E. Bertola, G. Tozzi. Priority B.
- 2025** Chasing signatures of AGN feedback at  $z\sim 2$  with NOEMA. PI: C. Circorsta. Priority C.
- 2025** NOEMA-traced multi-phase AGN feedback up to  $z\sim 4$ . PI: E. Bertola, F. Salvestrini. Priority C.
- 2023** A NOEMA/JWST perspective on the obscured Universe at  $z\sim 6$ . PI: F. Gentile, M. Bethermin. Priority C.
- 2023** Redshift confirmation of the most distant radio source. PI: F. Gentile, M. Bethermin. Priority B.
- 2022** Redshift confirmation of the most distant radio source. PI: M. Talia, F. Gentile. Priority C.
- 2022** Obscured AGN in an assembling protocluster at Cosmic Noon. PI: R. Decarli. Priority B.
- 2022** The obscured Universe at  $z\sim 6$  on the way to JWST. PI: M. Talia, M. Bethermin. Priority B.
- 2022** Obscured AGN in an assembling protocluster at Cosmic Noon. PI: R. Decarli. Priority B.
- 2021** Obscured AGN in an assembling protocluster at Cosmic Noon. PI: R. Decarli. Priority B.
- 2021** Obscured AGN in an assembling protocluster at Cosmic Noon. PI: R. Decarli. Priority B.
- 2020** Dust, gas, and jet: NOEMA uncovers the building blocks of a central dominant galaxy at  $z\sim 1.7$ . PI: Q. D'Amato. Priority C.
- 2019** A CO survey and molecular gas scaling relations of the SUBWAYS AGN sample. PI: C. Feruglio. Priority B.
- 2019** Witnessing the formation of the first large-scale structures in the universe. PI: R. Decarli. Priority A.
- 2018** A bright sub-mm galaxy associated with an enormous Ly-alpha nebula at  $z\sim 2$ . PI: R. Decarli. Priority B.
- 2018** Molecular gas study in a pilot sample of cross-population radio galaxies. PI: E. Torresi. Priority C.
- 2018** A bright sub-mm galaxy inside an enormous Ly-alpha nebula at  $z\sim 2$ . PI: R. Decarli. Priority B.
- 2017** Molecular gas content of the most active compact group in the local Universe. PI: M.A. Perez-Torres. Priority B.
- 2017** Witnessing the formation of the first large-scale structures in the universe. PI: R. Decarli. Priority A.
- 2017** mm & submm monitoring in support of MAGIC TeV observations of the radio galaxy 3C 264. PI: R. Angioni. Priority A.
- 2017** Molecular gas content of the most active compact group in the local Universe. PI: M.A. Perez-Torres. Priority B.
- 2016** SUPER-NOEMA: gas fractions and depletion timescales in SUPER AGN hosts at  $z\sim 2$ . PI: C. Feruglio, M. Salvato. Priority C.
- 2015** First detection of high speed molecular gas at high redshift. PI: C. Feruglio. Priority B.
- 2014** PDS456: a milestone of the ULIRG-to-QSO evolutionary scenario. PI: C. Feruglio. Priority C.
- 2014** Molecular gas content of extreme starbursts at  $z\sim 1-1.5$ . PI: I. Delvecchio. Priority C.
- 2014** Gas reservoirs and SFR of the most luminous QSOs in the Universe. PI: A. Bongiorno. Priority C.
- 2014** NEXT: The NOEMA Extended Outflows Survey. PI: C. Feruglio, E. Sturm, R. Maiolino, S. Aalto. Priority C.
- 2013** Are UFO the detonator of galaxy-scale outflows?. PI: E. Piconcelli. Priority C.
- 2013** Gas reservoirs of the most luminous quasars. PI: C. Feruglio. Priority C.
- 2013** Cold Cases: molecular gas in X-ray obscured QSOs hosted in ULIRGs. PI: M. Brusa. Priority C.
- 2012** First detection of CO in a high- $z$  Compton-Thick QSO. PI: C. Feruglio. Priority B.
- 2011** Feedback caught in the act in an exceptionally bright  $z\sim 1$  DOG. PI: C. Gruppioni. Priority C.
- 2011** A direct test of the black holes - mergers connection. PI: C. Feruglio. Priority C.
- 2006** Unveiling millimeter emission from obscured, hard X-ray selected Type 2 quasars. PI: C. Gruppioni. Priority C.

### APEX accepted proposals [2020-]

- 2018** Does the AGN influence the host galaxy depletion time? PI: F. Salvestrini. 18.7h.

## RADIO

### VLA (VLBA) accepted proposals [2011–]

- 2026** *Radio emission and winds feedback in the SUBWAYS sample - completing the sample.* PI: E. Amenta.
- 2025** *Deciphering the puzzling nature of a sub-kpc dual AGN candidate [HSA=VLBA+phased VLA].* PI: I. Delvecchio.
- 2024** *Deciphering the puzzling nature of a sub-kpc dual AGN candidate [HSA=VLBA+phased VLA].* PI: I. Delvecchio.
- 2023** *Radio WISSH: tuning on the most luminous quasars in the Universe.* PI: G. Bruni.
- 2022** *Investigating the radio properties of the most luminous quasars in the Universe.* PI: G. Bruni.
- 2022** *Radio emission and winds feedback in the SUBWAYS sample - completing the sample.* PI: F. Panessa.
- 2022** *The radio connection to multi-phase outflows at Cosmic Noon with VLA, JWST & VLT.* PI: S. Dougherty.
- 2021** *Investigating the radio properties of the most luminous quasars in the Universe.* PI: G. Bruni.
- 2021** *Radio emission and winds feedback in the SUBWAYS sample - a continuation.* PI: F. Panessa.
- 2019** *Linking AGN radio emission and winds feedback in the SUBWAYS sample.* PI: F. Panessa.
- 2018** *A systematic study of multiple local AGN: short separation systems.* PI: R. Herrero-Illana.
- 2018** *Revealing the largest giant radio galaxy in the Universe.* PI: L. Zappacosta.
- 2018** *Key laboratory to test inter-stellar medium properties of a compact SFG at  $z \sim 2$ .* PI: M. Talia.
- 2017** *A Window on early SMBH Formation and Evolution: the  $z \sim 6.3$  J1030 QSO Legacy Field.* PI: I. Prandoni.
- 2017** *A systematic study of multiple local AGN: large separation systems.* PI: R. Herrero-Illana.
- 2016** *HI distribution and kinematics of the most active local compact group.* PI: R. Herrero-Illana.
- 2014** *A systematic study of multiple AGN systems in the local Universe.* PI: R. Herrero-Illana.
- 2011** *A direct test of the black holes - mergers connection.* PI: E. Daddi.

### MeerKAT accepted proposals

- 2023** *MeerKAT and Euclid Team up: Exploring the galaxy-halo connection at Cosmic Noon.* PI: I. Prandoni. 123h, B1 priority.

### LOFAR accepted proposals

- Cycle 12 - 2019** *Galaxy formation, ICM heating and AGN feedback: the turbulent youth of a proto-cluster at  $z \sim 1.69$ .* PI: R. Gilli. 16h.

### SRT accepted proposals

- 2025** *Unveiling SMBH Binaries: Probing Radio light curves with the SRT.* PI: P. Severgnini. 51h.

## X-RAYS

### XRISM accepted proposals

- Cycle 2** *Resolving the fine structure of the powerful UFO in the highly accreting NLS1 galaxy PG 1448+273 with XRISM.* PI: M. Laurenti. 150 ks, C priority.
- Cycle 2** *Resolving the extraordinary multi-component wind in MCG-03-58-007.* PI: V. Braitto. 250 ks, C priority.
- Cycle 2** *The XRISM unprecedented view of the outflow/inflow in NGC 7469.* PI: G. Lanzuisi. 100 ks, B priority.
- Cycle 1** *Probing the accretion (in)flow and wind (out)flow in the luminous Seyfert 1 galaxy Mrk 509.* PI: M. Cappi. 100 ks, B priority.
- Cycle 1** *The first unambiguous detection of the X-ray broad-line region.* PI: E. Kammoun. 80 ks, A priority.
- Cycle 1** *NGC 1068: a XRISM benchmark for Compton-thick Seyfert 2s.* PI: S. Bianchi. 100 ks, A priority.

## Chandra

- AO26-2024** *Ultrafast outflows and their interaction with the interstellar medium near the peak of AGN activity.* PI: G. Chartas. 120 ks.
- AO26-2024** *A joint Chandra and NuSTAR monitoring of a changing-look Compton thick AGN.* PI: S. Marchesi. 90 ks. Includes 75 ks NuSTAR.
- AO26-2024** *COSMOS-WebX: Unveiling the Connection between AGN and their Host Galaxies in the last 12.5 Years.* PI: E. Lambrides. 1.6 Ms. **Very Large Program.**
- AO25-2023** *Ultrafast outflows and their interaction with the interstellar medium near the peak of AGN activity.* PI: G. Chartas. 125 ks.
- AO25-2023** *Searching for hidden accreting supermassive black holes in the first JWST-EIGER field.* PI: S. Marchesi. 200 ks.
- AO24-2022** *Unveiling the connection between AGN and massive gas reservoirs in protoclusters.* PI: F. Vito. 710 ks. **Large Program.**
- AO24-2022** *An ultrafast outflow near the peak of AGN activity.* PI: G. Chartas. 135 ks.
- AO24-2022** *Probing energy-driven AGN winds in the brightest, non-lensed QSO at  $z>3$ .* PI: E. Bertola. 150 ks.
- AO23-2021** *Chandra observations of merging and interacting galaxy pairs.* PI: A. De Rosa. 180 ks.
- AO23-2021** *Monitoring extreme X-ray variability of the  $z\sim 6$  QSO J1641.* PI: F. Vito. 82 ks.
- AO23-2021** *Probing SMBH accretion in an extremely gas-dense and star-forming protocluster at  $z\sim 4.3$ .* PI: F. Vito. 200 ks.
- AO23-2021** *The assembly arena of a powerful obscured quasar.* PI: L. Zappacosta. 300 ks.
- AO23-2021** *The Chandra route towards the X-ray properties of the most luminous quasars in the Universe.* PI: E. Piconcelli. 221 ks.
- AO21-2019** *Hunting down the first heavily obscured QSO at  $z>6$ .* PI: F. Vito. 120 ks.
- AO20-2018** *X-raying a rare hyperluminous ultramassive black-hole at Cosmic Dawn.* PI: L. Zappacosta. 120 ks.
- AO20-2018** *Nuclear accretion in a starbursting protocluster at  $z\sim 4$ .* PI: F. Vito. 140 ks.
- AO19-2017** *A Reliable X-ray View of the First Quasars.* PI: W.N. Brandt. 429 ks. **Large Program.**
- AO19-2017** *Building a complete sample of  $z>1$  XXL galaxy clusters.* PI: B. Maughan. 152 ks.
- AO19-2017** *Do the outflow properties in the most luminous quasars correlate with X-ray radiative output and host dynamical state?* PI: L. Zappacosta. 90 ks. Includes 2 HST orbits.
- AO19-2017** *Exploratory X-ray Monitoring of  $z>4$  Radio-Quiet Quasars.* PI: O. Shemmer. 90 ks. Multi-year monitoring project.
- AO19-2017** *Heavily reddened, luminous Type 1 QSOs: a transition population emerging from the dust.* PI: E. Piconcelli. 144 ks.
- AO18-2016** *A quadruple quasar coincident with a giant Ly-alpha nebula and a protocluster at  $z\sim 2$ .* **PI: C. Vignali. 140 ks.**
- AO17-2015** *QSOs at  $z\sim 6$ : Black Hole Growth and Feedback in the Early Universe.* PI: R. Gilli. 500 ks. **Large Program.**
- AO16-2014** *The central engine of the most luminous quasars.* PI: E. Piconcelli. 214 ks.
- AO16-2014** *X-ray observations of the nuclear activity in strongly lensed star forming galaxies at redshift  $>1.5$ .* PI: M. Massardi. 80 ks.
- AO15-2013** *Probing black hole accretion in binary quasars at high redshifts.* **PI: C. Vignali. 140 ks.**
- AO15-2013** *Hot gas emission and AGN-galaxy coevolution at the dawn of cluster formation.* PI: E. Daddi. 96 ks.
- AO15-2013** *Chandra imaging of the bright Compton-thick Seyfert galaxy ESO 138-G1.* PI: E. Piconcelli. 50 ks.
- AO15-2013** *The Chandra Deep Field-South: A Peerless Ultradeep Survey for Exploring the Distant X-ray Universe.* PI: W.N. Brandt. 3 Ms. **X-ray Visionary Program.**
- AO14-2012** *The COSMOS Legacy survey.* PI: F. Civano. 2.8 Ms. **X-ray Visionary Program.**
- AO13-2011** *Exploratory X-ray Monitoring of  $z>4$  Radio-Quiet Quasars.* PI: O. Shemmer. 90 ks. Multi-year monitoring project.
- AO12-2010** *A Runaway Black Hole in COSMOS.* PI: F. Civano. 80 ks. Includes 1 HST orbit.

**AO12-2010** *Exploratory X-ray Monitoring of  $z > 4$  Radio-Quiet Quasars.* PI: O. Shemmer. 30 ks.  
**AO10-2008** *Identifying High-Redshift X-ray Jets from Radio-Loud Quasars with Chandra.* PI: W.N. Brandt. 60 ks.  
**AO10-2008** *Luminous Compton-thick QSOs at  $z \sim 1$ .* PI: R. Gilli. 80 ks.  
**AO8-2006** *The Chandra-COSMOS survey.* PI: M. Elvis. 1.8 Ms. **Very Large Program.**  
**AO8-2006** *Probing heavy obscuration in optically selected Type 2 quasar candidates.* **PI: C. Vignali. 120 ks.**  
**AO8-2006** *Are Compton-thick quasars hidden among the population of heavily obscured Spitzer-selected AGN?.* **PI: C. Vignali. 150 ks.**  
**AO7-2005** *The dark side of accretion: chasing type 2 QSOs.* PI: F. Fiore. 165 ks.  
**AO6-2004** *Studying the X-ray properties of SDSS candidate Type II quasars with exploratory Chandra observations.* **PI: C. Vignali. 50 ks.**  
**AO5-2003** *Unveiling the engine powering OH Gigamaser sources through X-rays. A well-defined Chandra survey.* **PI: C. Vignali. 27 ks.**  
**AO5-2003** *A Chandra observation of the  $z \sim 2.286$  Seyfert 2 galaxy FSC10214+4724: Constraints on AGN in typical submm galaxies.* PI: D.M. Alexander. 20 ks.  
**AO5-2003** *A Chandra survey of Extremely Red Objects.* PI: M. Brusa. 90 ks.  
**AO5-2003-GTO** *The Extended Chandra Deep Field-South Survey: A Public Chandra Legacy.* PI: W.N. Brandt. 1 Ms. **Very Large Program.**  
**AO5-2003-GTO** *A Chandra Survey of Luminous, Radio-Detected Quasars at  $z > 4$ .* PI: W.N. Brandt. 16 ks.  
**AO5-2003-GTO** *A study of quasar evolution with the aid of lensing.* PI: G. Chartas. 50 ks.  
**AO4-2002** *A Chandra survey of the most luminous quasars at  $z > 4$ .* **PI: C. Vignali. 53 ks.**  
**AO4-2002** *Chasing quasars 2.* PI: F. Fiore. 45 ks.  
**AO4-2002-GTO** *A Chandra Survey of Luminous, Radio-Detected Quasars at  $z > 4$ .* PI: G. Garmire. 35 ks.  
**AO1-1999** *The X-ray complex structure of the powerful radiogalaxy 3C 219.* PI: G. Brunetti. 20ks.

### XMM-Newton

**AO25-2025** *Quasar physics and cosmology at  $z \sim 4$ .* PI: E. Nardini. 1.172 Ms, B priority. **Large Program.**  
**AO25-2025** *The First X-ray View of a Dynamically Confirmed Super-Eddington QSO at  $z=2.3$ .* PI: A. Tortosa. 74 ks, B priority.  
**AO25-2025** *Confirming blue QSOs in the blow-out phase with XMM.* PI: E. Piconcelli. 47 ks, B priority; 221 ks C priority.  
**AO25-2025** *The Most Powerful Quasar Outflows in the Universe.* PI: G. Chartas. 54 ks, B priority.  
**AO25-2025** *Towards a golden sample of X-ray selected very high energy blazars.* PI: S. Marchesi. 186 ks, C priority.  
**AO25-2025** *Linking Quasar obscuration and Lyman alpha nebulae at Cosmic Noon.* PI: L. Zappacosta. 162 ks, C priority.  
**AO24-2024** *The Most Powerful Quasar Outflows in the Universe.* PI: G. Chartas. 61 ks, B priority; 54 ks, C priority.  
**AO24-2024** *Searching for jet-driven outflows in the monster FSRQ TON 618.* PI: R. Serafinelli. 89 ks, B priority.  
**AO23-2023** *X-EDFF.* PI: M. Pierre. 3.576 Ms, B priority. **Multi-year Heritage Program.**  
**AO23-2023** *The WISSHFUL Program: unveiling SMBH winds at Cosmic Noon.* PI: G. Lanzuisi. 2.331 Ms, B priority. **Multi-year Heritage Program.**  
**AO23-2023** *Probing the SMBH mass growth of the first QSOs.* PI: L. Zappacosta. 604 ks, A priority. **Large Program.**  
**AO23-2023** *Catching blue QSOs in the blow-out phase.* PI: E. Piconcelli. 76 ks, B priority.  
**AO23-2023** *The first X-ray observations of a fast blue optical transient at very late times.* PI: R. Margutti. 124 ks, C priority.

**AO22-2022** *The unknown giant: a backyard beacon of large-scale structure formation.* PI: Q. D’Amato. 17 ks, A priority.

**AO22-2022** *The first X-ray observations of a fast blue optical transient at very late times.* PI: R. Margutti. 123 ks, C priority.

**AO22-2022** *The origin of X-ray emission of the gamma-ray loud, young radio galaxy NGC3894.* PI: G. Migliori. 73 ks, C priority.

**AO22-2022** *X-ray spectroscopy of super-Eddington quasars at Cosmic Noon.* PI: E. Piconcelli. 99 ks, C priority.

**AO22-2022** *Re-observation of a highly flared observation of a  $z=7.5$  HYPERION quasar.* PI: L. Zappacosta. 104 ks, C priority.

**AO22-2022** *XMM-Newton study of optically selected dual AGN detected in 4XMM.* PI: A. De Rosa. 318 ks, C priority. Fulfil Program.

**AO21-2021** *Expanding the parameter space of quasar ionized outflowing absorbers.* PI: E. Piconcelli. 136 ks, C priority.

**AO21-2021** *XMM-Newton study of optically selected dual AGN detected in 4XMM.* PI: A. De Rosa. 136 ks, C priority, 318 ks, C priority. Fulfil Program.

**AO20-2020** *HYPERluminous quasars at the Epoch of ReionizatION (HYPERION).* PI: L. Zappacosta. 2.4 Ms, A priority. **Multi-year Heritage Program.**

**AO20-2020** *Magnified Views of Relativistic Outflows in high- $z$  mini-BAL Quasars.* PI: G. Chartas. 68 ks, B priority; 49 ks, C priority.

**AO20-2020** *High-redshift quasars: Cosmology and Physics.* PI: E. Lusso. 992 ks, C priority.

**AO20-2020** *Physics and Energetics of the Ultra Fast Outflow in IRAS F11119+3257.* PI: G. Lanzuisi. 113 ks, B priority. Includes 53 ks NuSTAR.

**AO20-2020** *Enlarging the parameter space of ionized outflowing absorbers in quasars.* PI: E. Piconcelli. 126 ks, C priority.

**AO20-2020** *The nuclear activity in a MIR colour selected sample of bright IR mergers.* PI: N. Loiseau. 437 ks, C priority, Fulfil Program.

**AO19-2019** *The XMM-Newton view of the super-Eddington accreting QSO J1641 at  $z=6.047$ .* PI: F. Vito. 103 ks, C priority.

**AO19-2019** *Shedding light on the X-ray weakness of the most luminous quasars.* PI: L. Zappacosta. 266 ks, C priority.

**AO18-2018** *Unveiling the nuclear properties of the most luminous quasar in the Universe.* PI: L. Zappacosta. 73 ks, B priority. Includes 1h VLT/X-SHOOTER.

**AO18-2018** *Shedding “X-ray” light on Supermassive Black Holes winds.* PI: M. Brusa. 1.582 Ms, all B priority but 213 ks C priority. **Large Program.**

**AO18-2018** *High-redshift quasars: Cosmology and Physics.* PI: E. Lusso. 68 ks, C priority (only one observation effectively carried out as a part of a Large Program in C priority).

**AO18-2018** *X-ray spectroscopic survey of highly-accreting AGN.* PI: E. Piconcelli. 206 ks, B priority; 13 ks, C priority.

**AO18-2018** *Magnified Views of Relativistic Outflows in high- $z$  mini-BAL Quasars.* PI: G. Chartas. 219 ks, C priority.

**AO17-2017** *Completing and Ensuring Major Impact from the XMM-SERVS Survey.* PI: W.N. Brandt. 3.444 Ms, A priority. **Multi-year Heritage Program.**

**AO17-2017** *Fading iron line emission in ULIRG IRAS F00183–7111?* PI: K. Iwasawa. 83 ks, C priority.

**AO17-2017** *Studying super-Eddington accretion in the  $z=2$  QSO PG 1247+267.* PI: G. Lanzuisi. 113 ks, C priority. Includes 100 ks NuSTAR.

**AO17-2017** *Magnified Views of Relativistic Outflows in  $1.4 < z < 2.6$  mini-BAL Quasars.* PI: G. Chartas. 128 ks, A priority; 29 ks, B priority; 94 ks, C priority.

**AO17-2017** *Probing ultra-fast outflows in distant QSO with the aid of gravitational lensing.* PI: M. Dadina. 118 ks, B priority.

**AO16-2016** *The brightest AGN pairs in a sample of galaxy mergers.* PI: N. Loiseau. 46 ks, B priority; 66 ks, C priority.

**AO16-2016** *Puzzling broad-line W1W2-dropout quasars.* PI: E. Piconcelli. 51 ks A priority, 57 ks, C priority.

**AO16-2016** *A link between X-ray weakness and Eddington ratio in BALQSOs?* PI: F. Vito. 64 ks, B priority; 67 ks, C priority.

**AO16-2016** *A pathfinder X-ray spectral study of outflows in the X-ray brightest QSOs at  $z \sim 2$ .* PI: M. Cappi. 444 ks, B priority. **Large Program.**

**AO16-2016** *Probing the merger-induced feedback scenario in hyper-luminous quasars.* PI: L. Zappacosta. 43 ks, B priority; 92 ks, C priority. Includes 3 HST orbits.

**AO16-2016** *Cosmology with  $z > 3$  quasars.* PI: G. Risaliti. 1.045 Ms, B priority. **Large Program.**

**AO15-2015** *Going Beyond COSMOS with the XMM-SERVS Survey of W-CDF-S, XMM-LSS, and ELAIS-S1.* PI: W.N. Brandt. 1.279 Ms, B priority. **Large Program.**

**AO15-2015** *Unveiling multiple AGN in galaxy mergers.* PI: A. De Rosa. 192 ks, B priority.

**AO15-2015** *The puzzle of broad-line W1W2-dropout quasars.* PI: E. Piconcelli. 57 ks, C priority.

**AO15-2015** *Magnified Views of Relativistic Outflows in Gravitationally Lensed mini-BALQSOs.* PI: G. Chartas. 156 ks, C priority.

**AO15-2015** *An exploratory X-ray spectral study of massive outflows in high- $z$  QSOs.* PI: M. Cappi. 233 ks, C priority.

**AO15-2015** *The brightest AGN pairs in a sample of galaxy mergers.* PI: N. Loiseau. 112 ks, C priority.

**AO15-2015** *Shedding light on hyperluminous quasars showing powerful ionized winds.* PI: L. Zappacosta. 154 ks, C priority.

**AO15-2015** *XMM-Newton observations of galaxy-wide outflows: the origin of super winds.* PI: M. Brusa. 125 ks, C priority.

**AO15-2015** *XMM-Newton and NuSTAR to study the matter flow in the  $z=3.6$  QSO B1422+231.* PI: M. Dadina. 239 ks, C priority. Includes 75 ks NuSTAR.

**AO14-2014** *The most luminous quasars at the golden epoch of AGN/galaxy evolution.* PI: L. Zappacosta. 192 ks, C priority.

**AO14-2014** *X-raying Hot Dogs.* PI: E. Piconcelli. 151 ks, B priority; 78 ks, C priority.

**AO14-2014** *Magnified Views of Relativistic Outflows in Gravitationally Lensed mini-BAL Quasars.* PI: G. Chartas. 90 ks, B priority; 156 ks, C priority.

**AO13-2013** *X-raying the most powerful quasars at the golden epoch of AGN/galaxy evolution.* PI: L. Zappacosta. 152 ks, C priority.

**AO13-2013** *Magnified Views of Relativistic Outflows in Gravitationally Lensed mini-BAL Quasars.* PI: G. Chartas. 142 ks, C priority.

**AO13-2013** *Absorption variability in Mrk 915.* PI: L. Ballo. 241 ks, B priority.

**AO13-2013** *Powerful Winds in Extreme RBS quasars (POWER).* PI: E. Piconcelli. 264 ks, B priority.

**AO13-2013** *SDSSJ1159+0112, an intriguing high  $z$ , X-ray bright BAL QSO.* PI: G. Lanzuisi. 68 ks, C priority.

**AO13-2013** *An X-ray study of distant QSO with the aid of gravitational lensing.* PI: M. Dadina. 78 ks, B priority; 78 ks, C priority.

**AO12-2012** *X-raying the most luminous galaxies of the Universe.* PI: E. Piconcelli. 43 ks, C priority.

**AO11-2011** *A close-look to the photoionisation mechanisms in the Compton-thick Seyfert 2 ESO138-G1.* PI: A. Marinucci. 123 ks, C priority.

**AO11-2011** *Tracking down the AGN in galaxies with massive molecular outflows.* PI: E. Piconcelli. 246 ks, B priority.

**AO11-2011** *XMM-Newton spectroscopy of high-redshift Dust Obscured Galaxies.* PI: G. Lanzuisi. 122 ks, C priority.

**AO11-2011** *In search of merging black holes in interacting galaxies.* PI: S. Mathur. 45 ks, C priority.

**AO10-2010** *XMM-Newton spectroscopy of high-redshift Dust Obscured Galaxies.* PI: G. Lanzuisi. 122 ks, C priority.

**AO10-2010** *In search of merging black holes.* PI: S. Mathur. 139 ks, B priority; 21 ks, C priority.

**AO10-2010** *[Ne V]-selected heavily obscured QSOs at the epoch of the X-ray background.* PI: R. Gilli. 83 ks, B priority.

**AO10-2010** *A variable energy, redshifted, iron absorption line in a recoiling black hole.* PI: F. Civano. 123 ks, B priority.

**AO9-2009** *Revealing Compton-thick luminous AGN in powerful [OIII] emitted.* PI: E. Piconcelli. 32 ks, B priority; 53 ks, C priority.

**AO8-2008** *The ultra-deep survey in the CDFS: an XMM-Newton legacy.* PI: A. Comastri. 1.566 Ms, B priority. **Large Program.**

**AO8-2008** *Compton-thick luminous AGN at the heart of bright [OIII] emitters.* PI: E. Piconcelli. 78 ks, A priority; 53 ks, C priority.

**AO8-2008** *At the edge of an AGN wind: a deep observation of PG 1126-041.* PI: M. Giustini. 130 ks, B priority.

**AO8-2008** *Probing the nature of a poorly-studied soft X-ray weak quasar: absorption or intrinsic property?* PI: L. Ballo. 69 ks, C priority.

**AO8-2008** *X-ray absorption in the most-distant radio-loud quasars: widespread or exceptional?.* PI: W.N. Brandt. 144 ks, C priority.

**AO7-2007** *The ultra-deep survey in the CDFS: an XMM-Newton legacy.* PI: A. Comastri. 1.3 Ms, B priority. **Large Program.**

**AO7-2007** *The remarkable X-ray spectrum of the luminous red QSO FTM J0830+3759.* PI: E. Piconcelli. 53 ks, B priority.

**AO7-2007** *The Fe K $\alpha$  profile of the bright Seyfert 1 galaxy Mrk 1040.* PI: G. Miniutti. 84 ks, B priority.

**AO7-2007** *Variable absorption in BAL QSOs: catching the origin of AGN winds.* PI: M. Giustini. 46 ks, B priority; 89 ks, C priority.

**AO7-2007** *Disclosing the X-ray properties of Type 2 QSOs.* PI: R. Della Ceca. 60 ks B priority, 33 ks, C priority.

**AO6-2006** *Investigating the peculiar X-ray properties of the narrow-line quasar PG 1543+489 at  $z\sim 0.40$ .* **PI: C. Vignali. 66 ks, B priority.**

**AO6-2006** *Compton-thick QSOs in the distant Universe.* PI: R. Gilli. 83 ks, C priority.

**AO5-2005** *Probing flows in and out of Mrk 509 with iron absorption lines.* PI: F. Fiore. 140 ks, B priority; 100 ks, C priority.

**AO4-2004** *Evolution of AGN in the cosmic web: the HST+VIMOS+SWIRE COSMOS Field.* PI: G. Hasinger. 600 ks, B priority. **Large Program.**

**AO4-2004** *Probing flows in and out of Mrk 509 with iron absorption lines.* PI: M. Cappi. 203.2 ks, B priority.

**AO4-2004** *Defining the X-ray properties of the most distant radio-loud quasars.* PI: W.N. Brandt. 169.5 ks, C priority.

**AO3-2003** *XMM-Newton spectroscopy of the most distant quasars.* PI: W.N. Brandt. 137 ks, A priority; 111 ks, C priority.

**AO2-2002** *Tracing the hidden AGN activity in the ERO population.* PI: A. Comastri. 53.3 ks, B priority.

**AO2-2002** *The reddest quasars.* PI: A. Comastri. 23.3 ks, C priority.

#### **NuSTAR [AO1=2014, AO12=2026]**

**AO12** *Completing the NuSTAR WISSHFUL Program: X-ray coronae and winds in quasars at Cosmic Noon.* PI: L. Borrelli. 780 ks, A priority. **Large Program.**

**AO11** *A NuSTAR WISSHFUL Program: X-ray coronae and winds in quasars at Cosmic Noon.* PI: L. Borrelli. 880 ks, A priority. **Large Program.**

**AO11** *Dissecting the torus: a golden sample of heavily obscured AGN with multi-epoch NuSTAR and XMM-Newton observation.* PI: S. Marchesi. 255 ks, B priority. Includes 126 ks XMM-Newton.

**AO11** *Illuminating IRAS 03450+0055: shedding light on an unexplored local infrared-bright AGN.* PI: C. Gilbert. 20ks, C priority.

**AO10** *A NuSTAR WISSHFUL Program: X-ray coronae and winds in quasars at Cosmic Noon.* PI: G. Lanzuisi. 750 ks, A priority. **Large Program.**

**AO10** *Hot coronae in luminous radio-quiet quasars.* PI: A. Marinucci. 460 ks, B priority. Includes 40 ks XMM-Newton.

**AO8** *2FHL J1745.1–3035: A Newly Discovered, Powerful Pulsar Wind Nebula Candidate.* PI: S. Marchesi. 100 ks, C priority.

**AO7** *Unveiling the intrinsic X-ray properties of the 12-micron Sy2 sample: towards a complete X-ray coverage.* PI: F. Salvestrini. 90 ks, B priority. Includes 40 ks XMM-Newton.

**AO7** *AGN feedback in action: the powerful wind in IRAS F05054+1718.* PI: V. Braito. 80 ks, B priority. Includes 60 ks XMM-Newton.

**AO6** *Building SUBWAYS: the NuSTAR line.* PI: S. Bianchi. 610 ks, A priority. **Large Program.**

**AO6** *Witnessing the blow-out phase in the changing look local QSO 2MASS 0918+2117.* PI: G. Lanzuisi. 60 ks, A priority. Includes 50 ks XMM-Newton.

**AO6** *Unveiling the intrinsic X-ray properties of the 12-micron Sy2 sample: towards a complete X-ray coverage.* PI: F. Salvestrini. 110 ks, B priority; 70 ks, C priority. Includes 15 ks XMM-Newton.

**AO5** *The Compton thick AGN Legacy project. A complete set of NuSTAR-observed nearby CT-AGN.* PI: S. Marchesi. 450 ks, A priority. Includes 195 ks XMM-Newton. **Large Program.**

**AO4** *The high-energy cut-off in high-z/high-L QSOs.* PI: G. Lanzuisi. 320 ks, A priority. Includes 70 ks XMM-Newton.

**AO4** *Measuring the nuclear obscuration in the luminous AGN IRAS 15480-0344.* PI: E. Piconcelli. 40 ks, C priority.

**AO3** *The high-energy cut-off in high-z QSOs: a first cut.* PI: G. Lanzuisi. 250 ks, A priority. Includes 30 ks XMM-Newton.

**AO2** *Revealing the origin of the reflection-dominated spectrum of ESO 138-G01.* PI: E. Piconcelli. 50 ks, A priority.

**AO2** *NGC 2785, a heavily Compton-thick AGN candidate in a star-forming galaxy in a backyard.* **PI: C. Vignali, 70 ks,** B priority.

**AO1** *The central engine of a hot dog.* PI: E. Piconcelli. 150 ks, B priority.

**AO1** *Fire under ice: ULIRG IRAS F00183-7111.* PI: K. Iwasawa. 100 ks, B priority.

## Swift

**2025** *Long-term X-ray monitoring of MCG+11-11-032: the first super-massive black hole binary candidate discovered by Swift.* PI: P. Severgnini. 67 ks.

**2024** *Long-term X-ray monitoring of MCG+11-11-032: the first super-massive black hole binary candidate discovered by Swift.* PI: P. Severgnini. 80 ks.

**2023-ToO** *SDSS J131011.60+460124.4.* PI: R. Middei. 14 ks.

**2023** *Long-term X-ray monitoring of MCG+11-11-032: the first super-massive black hole binary candidate discovered by Swift.* PI: P. Severgnini. 100 ks.

**2022** *Long-term X-ray monitoring of MCG+11-11-032: the first super-massive black hole binary candidate discovered by Swift.* PI: P. Severgnini. 100 ks.

**2022** *Monitoring the X-ray weakness in high-Eddington quasars.* PI: E. Piconcelli. 40 ks.

**2021** *Long-term X-ray monitoring of MCG+11-11-032: the first super-massive black hole binary candidate discovered by Swift.* PI: P. Severgnini. 100 ks.

**2021** *Exploring the awakenings of the X-ray corona in high-Eddington quasars.* PI: E. Piconcelli. 40 ks.

**2020** *Swift observations of merging and interacting galaxy pairs.* PI: A. De Rosa. 120 ks.

**2020** *ToO observations on SDSS J143132.84+435807.20.* PI: P. Severgnini. 5 ks.

**2020** *Searching for the awakening of the X-ray corona in high-Eddington quasars.* PI: E. Piconcelli. 40 ks.

**2020** *Swift observations of merging and interacting galaxy pairs.* PI: A. De Rosa. 120 ks.

**2019** *Swift observations of merging and interacting galaxy pairs.* PI: A. De Rosa. 120 ks.

**2018** *NGC 2936: The most extreme example of feedback in the local Universe.* PI: R. Serafinelli. 30 ks.

**2018** *X-ray observations of sub-parsec supermassive black hole binary candidates.* PI: A. De Rosa. 15 ks.

**2016-ToO** *Following accretion flows in the high redshift QSO PG 1247+267.* PI: G. Lanzuisi. 60 ks.

**2015** *Variability in CGCG 031-072 and MCG+11-11-032.* PI: P. Severgnini. 100 ks.

**2013** *Absorption variability in Mrk 915 and SW J050819+172147.* PI: P. Severgnini. 90 ks.

**2013** *ToO observations on Mrk 915.* PI: P. Severgnini. 30 ks.

## Suzaku

**2009** *Suzaku observations of Compton-thick candidates*. PI: P. Severgnini. 100 ks.

**2008** *Suzaku observations of Compton-thick candidates*. PI: P. Severgnini. 100 ks.

**2007** *Suzaku observations of hard X-ray selected Seyfert 2 galaxies*. PI: R. Gilli. 90 ks.

**2006** *Suzaku observations of hard X-ray selected Seyfert 2 galaxies*. PI: A. Comastri. 120 ks.

**2005** *Suzaku observations of hard X-ray selected Seyfert 2 galaxies*. PI: A. Comastri. 80 ks.

## RESEARCH GRANTS

In the following, I will list the awarded grants in which I was either PI (highlighted in boldface) or actively involved co-I.

- INAF 2025: Grant for scientific research and basic technology proposals under the Basic Space Research Program (PRORIS) – Topic: Space Astrophysics and basic research finalized to Space Economy: “A new era for cosmology: exploiting the JWST revolution”. National PI: Dr. A. Fontana; **PI Unibo Research Unit: C. Vignali**.
- INAF 2024 (“Schede”) Grants of the following proposals:
  - *The Quest for dual and binary massive black holes in the gravitational wave era* (GO Large Grant, PI: A. De Rosa; 0.2 FTE/yr assigned on my side).
  - *The DEepest study of LUMinous QSOs in X-ray at z=2-7 (DELUX): SMBH feeding and feedback from Cosmic Dawn to Cosmic Noon* (GO Large Grant, PI: G. Lanzuisi; 0.1 FTE/yr assigned on my side).
  - *SQUEEzE: the Study of the QUasar Environment at Early-z Epoch* (GO Large, PI: M. Mignoli).
- INAF 2023 (“Schede”) Grants of the following proposals:
  - *Unveiling the connection between AGN and massive gas reservoirs in protoclusters* (GO-GTO Large Grant, PI: F. Vito; 0.2 FTE/yr assigned on my side).
  - *The XRISM-to-XIFU (X2X) Agreement and Beyond: entering a new Era of High-Resolution X-Ray Spectroscopy* (Large Grant, PI: F. Nicastro; 0.2 FTE/yr assigned on my side).
  - *WST: the Wide-field Spectroscopic Telescope* (Large Grant, PI: P. Schipani; team member).
  - *Quasars in public archives: a treasure 35 trove in plain sight* (Data Analysis Grant, PI: E. Nardini; team member).
- INAF 2022 (“Schede”) Grants of the following proposals:
  - *Dual and binary supermassive black holes in the multi-messenger era: from galaxy mergers to gravitational waves* (Large Grant, PI: P. Severgnini; 0.2 FTE/yr assigned on my side);
  - *Toward an holistic view of the Titans: multi-band observations of z>6 QSOs powered by greedy supermassive black-holes* (Large Grant, PI: L. Zappacosta; 0.2 FTE/yr assigned on my side);
  - *Face-to-Face with the Local Universe: ISM’s Empowerment (LOCAL)* (mini-grant, PI: V. Casasola; 0.2 FTE/yr assigned on my side);

- *UFOs in AGNs with EmulatoRs - UAGNER* (mini-grant, PI: M. Dadina; 0.1 FTE/yr assigned on my side);
- *Piercing through the clouds: a multiwavelength study of obscured accretion in nearby supermassive black holes* (mini-grant, PI: S. Marchesi; team member);
- *MeerKAT and LOFAR Team Up: A Unique Radio Window on Galaxy/AGN co-Evolution* (Large Grant, PI: I. Prandoni; team member);
- PRIN INAF 2019: *Piercing through the clouds: a multiwavelength study of obscured accretion in nearby supermassive black holes.*
- PRIN MIUR 2017: *Black hole winds and the baryon life cycle of galaxies: the stone-guest at the galaxy evolution supper.*
- ASI grant “Studi di Astrofisica delle Alte Energie e di Fisica Astroparticellare”. Bando Analisi Dati, Teoria e Simulazioni (Accordo Attuativo ASI-INAF n. 2017-14-H.0). *Supermassive Black Hole Winds in X-rays.*
- ASI grant “Studi di Astrofisica delle Alte Energie e di Fisica Astroparticellare”. Bando Analisi Dati, Teoria e Simulazioni (Accordo Attuativo ASI-INAF n. 2017-14-H.0). *Looking for Super Massive Black Hole Binary systems.*
- Finanziamento ASI per partecipazione italiana allo studio di fase A della missione *SPICA* in selezione M5.
- NASA grant of 26,800 USD for Cycle 18 *Chandra* accepted proposal (**PI: C. Vignali**); the grant was used to finance my US collaborators.
- ASI-NARO18 (*NuSTAR*): *Constraining the disk-corona and nuclear absorption properties in AGN with NuSTAR.*
- ASI grant “Studi di Astrofisica delle Alte Energie e di Fisica Astroparticellare”, Bando “Future Missioni” *STAR-X: the next generation of X-ray imaging surveys.*
- ASI grant “Studi di Astrofisica delle Alte Energie e di Fisica Astroparticellare. Bando 2017”. Bando Analisi Dati, Teoria e Simulazioni. *Probing AGN feedback in the most luminous QSOs at cosmic noon ( $z \sim 2 - 3$ ).*
- ASI grant “Studi di Astrofisica delle Alte Energie e di Fisica Astroparticellare. Bando 2017”: *Quasars at High-Redshift: Physics and Cosmology.*
- Bando SKA-CTA 2016: *Probing particle acceleration and  $\gamma$ -ray propagation with CTA and its precursors.*
- Bando SKA-CTA 2016: *FORMATION and Evolution of Cosmic Structures (FORE-CaST) with Future Radio Surveys.*
- ASI-NARO16 (*NuSTAR*): *An unprecedented look at AGN by NuSTAR broad-band X-ray spectroscopy.*
- ASI-NARO15 (*NuSTAR*): *Fire under ice: the central engine of the most luminous, dust-obscured AGN.*
- PRIN INAF 2014: *Windy black holes probing galaxy evolution.*
- ASI: *Probing the X-ray absorber structure in Mrk 915 through fast spectral variability*
- NASA grant of 35,000 USD for Cycle 15 *Chandra* accepted proposal (**PI: C. Vignali**); the grant was used to finance my US collaborators.
- FARB 2012 (studi di fattibilità): *Osservazioni radio Bologna-Tokyo per lo studio dei buchi neri supermassicci nei nuclei delle galassie attive.*

- PRIN 2010-11: *The dark Universe and the cosmic evolution of baryons: from current surveys to Euclid.*
- PRIN-INAF 2011: *Black hole growth and AGN feedback through cosmic time.*
- ASI: *IXO in the Cosmic Vision - supporto scientifico all'assessment study.*
- ASI-INAF I/009/10/0: *Physics and morphology of Active Galactic Nuclei (C. Vignali: unit coordinator).*
- ASI-INAF I/088/06/0: *Accretion processes in nearby and distant radio-quiet AGNs and QSOs (C. Vignali: unit coordinator).*
- ASI-INAF I/23/05/0: *Accretion and ejection in AGNs (C. Vignali: unit coordinator).*
- ASI-INAF COFIS: *Analisi dati nel contesto dello studio di cosmologia di strutture formate.*
- PRIN 2006: *L'evoluzione cosmologica, le proprietà fisiche e la demografia dei buchi neri supermassicci.*
- PRIN 2003: *La storia dell'accrescimento nell'Universo studiata nella banda X.*
- NASA financial support of  $\approx 70,000$  USD and  $\approx 36,000$  USD for two *Chandra* approved projects during my period in US as fellow.
- PRIN 2000: *Oscureamento e riprocessamento nella storia cosmica dei nuclei galattici attivi.*

#### ATTENDANCE TO CONFERENCES: ORAL PRESENTATIONS AND POSTERS

Presentations include 63 talks (14 of which invited, three as review; in addition, two concluding remarks at a conference). Attended conferences without any contribution are also included.

- II Italian National Meeting on AGNs (Riccione, Italy, 1996) – Posters (4).
- AAS High Energy Astrophysics Division Meeting (Estes Park, USA, 1997) – Poster.
- III Italian National Meeting on AGNs (Roma, Italy, 1998) – Oral contribution.
- III INTEGRAL Workshop “The Extreme Universe” (Taormina, Italy, 1998).
- XIX Texas Symposium on Relativistic Astrophysics (Paris, France, 1998).
- Workshop “X-ray surveys and the history of accretion in the Universe” (Roma, Italy, 1999).
- Symposium “X-ray Astronomy 1999: Stellar Endpoints, AGN, and the X-ray Background” (Bologna, Italy, 1999) – Poster.
- Workshop “Large scale structure in the X-ray Universe” (Santorini, Greece, 1999) – Oral contribution.
- IV Italian National Meeting on AGNs (Trieste, Italy, 2000) – Oral + poster contribution.
- Workshop “Two Years of Science with *Chandra*” (Washington, USA, 2001) – Poster.
- V Italian National Meeting on AGNs (Como, Italy, 2002) – Oral + poster contribution.
- International Workshop on “X-ray Surveys, in the light of the new observatories” (Santander, Spain, 2002) – Poster.
- Symposium on “The restless high-energy Universe” (Amsterdam, The Netherlands, 2003) – Poster.

- Tenth Marcel Grossmann Meeting (Rio-de-Janeiro, Brazil, 2003) – Oral contribution.
- Symposium on “AGN Physics with the SDSS” (Princeton, USA, 2003) – Oral contribution.
- Conference on “Multiwavelength AGN Surveys” (Cozumel, Mexico, 2003) – Oral contribution.
- VI Italian National Meeting on AGNs (Volterra, Italy, 2004) – Oral contribution.
- Conference on “Growing black holes” (Garching, Germany, 2004) – Poster.
- COSPAR Meeting (Paris, France, 2004) – Two oral contributions.
- Conference on “Superunification of Active Galactic Nuclei: Black Hole Mass, Spin and Accretion Rate (Elba Island, Italy, 2005) – Oral contribution.
- Conference on “Galaxies and Structures through Cosmic Times” (Venice, Italy, 2006) – Poster.
- VII Italian National Meeting on AGNs (Montagnana, Italy, 2006) – Oral contribution.
- International Astronomy Meeting “The multicolored landscape of compact objects and their explosive progenitors” (Cefalù, Italy, 2006) – Oral contribution.
- Conference on “At the Edge of the Universe. Latest results from the deepest astronomical surveys” (Sintra, Portugal, 2006) – Oral contribution.
- Conference on “The central engine of Active Galactic Nuclei” (Xi’an, China, 2006) – Poster.
- A *Chandra* Science Workshop “Extragalactic surveys” (Cambridge – Boston, US, 2006) – Oral contribution.
- Conference “The extreme Universe in the *Suzaku* era” (Kyoto, Japan, 2006).
- Conference “XEUS: Visions of the Extreme Universe” (London, UK, 2007).
- Workshop “CNOC2” (Chiemsee, Germany, 2007) – Invited oral contribution.
- Conference “Obscured AGN across Cosmic Time” (Seeon, Germany, 2007) – Two short oral contributions.
- Workshop “La scienza di *Herschel*” (Rome, Italy, 2008).
- Workshop “An XXL extragalactic survey: prospects for the XMM-*Newton* next decade” (Paris, France, 2008).
- Conference “The X-ray Universe 2008” (Granada, Spain, 2008) – Poster.
- COSPAR Meeting (Montreal, Canada, 2008) – Oral contribution.
- Workshop “Exploring the Hot Universe with *IXO*” (Garching, Germany, 2008).
- Workshop on “Multi-wavelength Astronomy & Virtual Observatory” (Madrid, Spain, 2008) – Invited oral contribution.
- Symposium “*Symbol-X*: focusing on the hard X-ray Universe” (Paris, France, 2008) – Oral contribution.
- Meeting on “*Safari Science*” (Saclay, France, 2009).
- Conference on “Accretion and ejection in AGN: a global view” (Como, Italy, 2009).
- Conference on “The energetic cosmos: from *Suzaku* to *ASTRO-H*” (Otaru, Japan, 2009).
- Workshop on “Wide Field X-ray Telescope” (Sexten, Italy, 2009) – Oral contribution.
- Conference “X-ray Astronomy 2009. Present status, multi-wavelength approach and future perspectives” (Bologna, Italy, 2009).

- IX Italian National Meeting on AGNs “Black Holes and Revelations” (Ferrara, Italy, 2010) – Concluding remarks.
- Workshop “Infrared/X-ray Connection in Galaxy Evolution” (MSSL, UK, 2010) – Oral contribution.
- Workshop “What drives the Growth of Black Holes?” (Durham, UK, 2010) – Oral contribution.
- Conference “Accretion and Outflow in Black Hole Systems” (Kathmandu, Nepal, 2010) – Invited oral contribution.
- Conference “*IXO* Science Meeting: Present status and future prospects in X-ray astronomy” (Roma, Italy, 2011).
- Workshop “Bridging electromagnetic astrophysics and cosmology with gravitational waves” (Milano, Italy, 2011) – Invited oral contribution.
- Conference “From dust to galaxies” (Parigi, France, 2011) – Oral contribution.
- Conference “New Horizons for High Redshifts” (Cambridge, UK, 2011) – Poster.
- Conference “The starburst-AGN connection under the multiwavelength limelight” (Madrid, Spain, 2011) – Oral contribution.
- X Italian National Meeting on AGNs “Dall’orizzonte degli eventi all’orizzonte cosmologico” (Roma, Italy, 2012).
- Conference “Half a century of X-ray Astronomy” (Mykonos, Greece, 2012) – Oral contribution.
- Conference “X-ray Astronomy: towards next 50 years!” (Milano, Italy, 2012).
- Conference “A Panchromatic View of Galaxy Evolution 30 years after IRAS” (Paphos, Cyprus, 2013) – Oral contribution.
- ENIGMA (Exploring the Nature of the Inter- and Circum-galactic Media) Workshop (Heidelberg, Germany, 2013) – Invited Oral contribution.
- IAU Symposium 304: “Multiwavelength AGN Surveys and Studies” (Yerevan, Armenia, 2013) – Invited review contribution.
- First EU-FP7 FISICA Workshop: Science Goals of sub-arcsecond Far-Infrared Space Observatory (Rome, Italy, 2014).
- XXL-AGN Meeting (Athens, Greece, 2014) – Oral contribution.
- High Energy Processes around Compact Objects (Florence, Italy, 2014) – Oral contribution.
- The X-ray Universe 2014 (Dublin, Ireland, 2014) – Oral contribution and poster.
- XXL Meeting (Sexten, Italy, 2014) – Oral contribution.
- The first billion years of galaxies and black holes (Sexten, Italy, 2014).
- AGN versus star formation: the fate of the gas in galaxies (Durham, UK, 2014). – Poster.
- XI Italian National Meeting on AGN “Where Black Holes and Galaxies Meet” (Trieste, Italy, 2014). – Invited review contribution.
- ISSI Meeting on “Unveiling multiple AGN activity in galaxy mergers” (Bern, Switzerland, 2014). – Oral contribution.
- *NuSTAR* Science Team Meeting (Bologna, 2015).
- XXL Meeting (Mljet, Croatia, 2015) – Oral contribution.

- Demography and environment of AGN from multi-wavelength surveys (Chania, Crete, 2015). – Oral contribution.
- XXL Cosmology workshop (Florence, 2016). – Oral contribution.
- Italian *SPICA* Workshop 2016 (Rome, 2016) – Oral contribution.
- XXL Meeting (Mykonos, Greece, 2016) - Oral contribution.
- Hot spots in the XMM sky: Cosmology from X-ray to Radio (Mykonos, Greece, 2016). – Oral contribution.
- Illuminating the Dark Ages: Quasars and galaxies in the Reionization Epoch (Heidelberg, Germany, 2016) - poster.
- EWASS Symposium (Athens, Greece, 2016). – Oral contribution + Short oral contribution.
- The X-ray Universe 2017 Meeting (Rome, Italy, 2017). – Oral contribution + poster.
- XXL Meeting (St Jacut, France, 2017) - Oral contribution.
- Meeting on “Multiphase AGN feeding and feedback. Linking the micro to macro scales in galaxies, groups, and clusters” (Sesto, Italy, 2018) - Invited oral contribution.
- XXL-AGN Meeting (Durham, UK, 2018) - Oral contribution.
- Meeting on “X-ray Surveys of the Hot and Energetic Universe” (Harbin, China, 2019) – Oral contribution.
- Meeting on “Supermassive Black Holes: Environment and Evolution” (Corfú, Greece, 2019) – Oral contribution.
- EWASS Symposium (Lyon, France, 2019). – Two oral contributions.
- ASTROBLACK Workshop (Milan, 2019). – Invited oral contribution.
- Meeting “Views on the Interstellar Medium in galaxies in the ALMA era” (Bologna, September 2019).
- Meeting “X-ray Astronomy 2019. Current Challenges and New Frontiers in the Next Decade” (Bologna, September 2019).
- Euclid AGN WG Workshop (Pisa, 2020). – Oral contribution.
- *SPICA* Collaboration meeting (Leiden, 2020). - Oral contribution, remotely.
- Italian Space Agency workshop “Tematiche e obiettivi per futuri programmi scientifici spaziali” (April 2022, remotely).
- Active Galactic Nuclei XIV: “The Renaissance of Black Holes and Galaxies” (Florence, May 2022)”.
- Conference “Multiphase AGN feeding and feedback. II” (Sexten, June 2022). – Invited oral contribution.
- Barcelona High-Redshift Quasar Workshop (Barcelona, May 2023). – Invited oral contribution.
- EWASS Symposium (Krakow, July 2023). - Chair of the open discussion at the end of EAS 2017 SS17 meeting, and concluding remarks.
- Meeting on protoclusters (Bologna, November 2023). Oral contribution.
- MOONS Meeting (Lisbon, January 2024).
- Galaxies & AGN with the first Euclid data and beyond (Bologna, February 2024).
- CTAO Symposium (Bologna, April 2024).

- Vulcano Workshop 2024. “Frontier objects in AstroPhysics and Particle Physics” (Ischia, May 2024). Invited oral contribution.
- EWASS Symposium (Padova, July 2024, online attendance).
- Workshop on “Galaxies and diffuse gas in large-scale overdense environments at high redshift” (Sexten, July 2024). Invited oral contribution.
- Meeting “Views on the multi-phase Interstellar medium in Galaxies” (Bologna, September 2024).
- LGWA Workshop (Castel Gandolfo, October 2024, online attendance).
- LISA Astrophysics Working Group Meeting (Garching, November 2024).
- Workshop “Dual and Binary AGN” (ESTEC, March 2026). Invited review contribution.
  
- MOONS Science Team Meeting (Nice, May 2026, online attendance).

### SEMINARS (not at conferences)

- Osservatorio Astronomico di Brera (2006): *What are the X-ray observations of optically selected Type 2 quasars telling us?*
- Osservatorio Astronomico di Merate (2009): *The quest for luminous, obscured quasars through X-ray, infrared, and optical observations.*
- Gent University (2011): *Obscured quasars.*
- Osservatorio Astronomico di Roma (2014): *Obscured accretion and star formation at  $z \approx 1$ .*
- Institut Astrophysique de Paris (2015): *The search for heavily obscured AGN.*
- INAF – IAPS (Roma, 2018): *The realm of the first AGN in the Universe.*
- University of Barcelona (Barcelona, October 2019): *The (endless) quest for obscured AGN.*
- University of Oslo (Oslo, June 2022): *The (endless) quest for obscured AGN: a biased (Bologna-based) view.*
- Athens Observatory (remotely, June 2022): *The Chandra view of the Jackpot nebula at  $z=2$ : a high incidence of AGN coupled with the detection of extended emission.*
- INAF – Osservatorio Astronomico di Monte Porzio (Roma, February 2023): *Connecting AGN and massive gas reservoirs in protoclusters: the Chandra view of the Jackpot nebula at  $z=2$ .*

### PUBLIC OUTREACH

- Specola seminar (May 2011): *L’Universo violento visto ai raggi X.*
- Seminar at the Physics and Astronomy Department (March 2016): *Evidenze astrofisiche di corpi collassati: Pulsar e Buchi Neri.*
- DIFA & OAS seminar for Leiden master students (May 2024): *The violent X-ray Universe.*

## ACADEMIC ACTIVITIES

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### ACADEMIC RESPONSABILITIES AND TUTOSHIPS (IN A NUTSHELL)

As mid-March, 2026:

- Former Director of the Bachelor in Astronomy and Master in Astrophysics and Cosmology.
- Former member of the *Giunta* of the Physics and Astronomy Department.
- Current member of the PhD and Master thesis committees; former member of the Bachelor thesis committee (many years).
- Teaching and assistance activities in more than 10 courses.
- Supervisor/co-supervisor of 20 PhD students in Bologna.
- Supervisor/co-supervisor of 70 Master students.
- Supervisor/co-supervisor of 6 Bachelor students.
- Participation in many evaluations committees (PhD, tenure-track positions, etc.)

### INSTITUTIONAL RESPONSABILITIES

- Member of the Quality Assurance (AQ) of the Bachelor in Astronomy and Master in Astrophysics and Cosmology (November 2025 – current).
- Director of the Degree Programs (Bachelor in Astronomy and Master in Astrophysics and Cosmology; November 2022 – 2025).
- Member of the committee for the evaluation of the admissions of students to the *Laurea Magistrale* in Astrophysics and Cosmology (2021–2025).
- Member of the Didactic Commission at DIFA (2022 – 2025).
- Member of the Internship committee for the students of the Bachelor in Astronomy and Master in Astrophysics and Cosmology; November 2022 – current).
- Member of the PhD Council in Astrophysics (2005 – current).
- Member of the Master Defense Committee in Astrophysics and Cosmology (2017 – current).
- Member of the Bachelor Defense Committee in Astronomy (2005–2016).
- Member of the committee for the evaluation of the Erasmus student traineeship program (2018–current).
- Member of the *Giunta* of the Physics and Astronomy Department (2015–2017).
- Member of the committee for the definition of the regulations for the newly born Physics and Astronomy Department at the University of Bologna in 2012.
- Member of the committee for the library of the Physics and Astronomy Department (2014 – current).
- Member of the School of Science at the University of Bologna (2022–2024; the School has then ceased activities).
- Responsible for the activities related to the Specola within the funded CTA+/PNRR project (WP 1620-2: “Exhibition on segmented mirrors at La Specola Musuem”). Technical contact for the operative project (2023 – 2026).

### ACADEMIC SUPERVISION ROLE

- **PhD students in Astrophysics and Cosmology at the University of Bologna:**
  - Supervisor of 7 PhD students.
  - Co-supervisor of 11 PhD students.
- **PhD students in Astrophysics outside the University of Bologna:**
  - Co-supervisor of 2 PhD students (INAF-IAPS Rome, in collaboration with University of Roma Tre and Tor Vergata).
- **Master (2nd Cycle Degree) students in Astrophysics and Cosmology at the University of Bologna:**
  - Supervisor of 61 Master students.
  - Co-supervisor of 9 Master students.
- **Master (2nd Cycle Degree) students in Physics outside the University of Bologna:**
  - Co-supervisor of one Master student at the University of Pisa (2020).
  - Co-supervisor of one Master student at the Tubingen University (2023).
- **Bachelor (1st Cycle Degree) students in Astronomy and in Physics at the University of Bologna:**
  - Supervisor of two Bachelor student (Physics).
  - Co-supervisor of 4 Bachelor students (3 in Astronomy, 1 in Physics).
- Supervisor of three post-doctoral fellows at the University of Bologna, and co-supervisor of one post-doctoral fellow at INAF-Brera Observatory.
- Supervisor of two Erasmus internship students and two visiting student.
- Supervisor of the “Semester project” of two students from India (remotely, 2023 and 2024).
- Training activities for two fellow researchers in the field of X-rays analysis of AGN within the AHEAD (European) activities.

#### EVALUATION COMMITTEES

- Member of the committee for the evaluation of the 1st Cycle degree (Laurea) in Astronomia (2005–2015).
- Member of the committee for the evaluation of the 2nd Cycle degree (Laurea Magistrale) in Astrophysics and Cosmology (2017–current).
- Member of the committee for the evaluation of the Erasmus student traineeship program (2018–current).
- Member of the committee for the evaluation of admission of students for the Laurea Magistrale in Astrophysics and Cosmology (2021–2025).
- Member of the DIFA committee for the evaluation for the PNRR - Mission 4 “Education and Research”: evaluation of projects presented by young researchers.
- Member of the DIFA committee for evaluation of the projects of visiting professors.
- Member of the committee for the evaluation of PhD candidates in Astrophysics in Bologna (twice).
- Member of the committee for the evaluation of PhD candidates in Physics at Ferrara (once).
- Member of the committee for the final evaluation of PhD students at the University

of Bologna (twice).

- Member of the committee for the final evaluation of PhD students at the University of Milano-Bicocca (three times).
- Member of the committee for the final evaluation of PhD students at the University of Florence (once).
- Member of the committee for the final evaluation of a PhD student at the Universitat de Barcelona (once).
- Member of the committee for the final evaluation of a Master student at the University of Oslo (once).
- Member of the committee for the final evaluation of PhD students at the University of Insubria (once).
- Member of the committee for the final evaluation of a PhD student at the Universität Potsdam & external referee (once).
- External referee for PhD thesis for the Rome Tre University (three times).
- External referee for PhD thesis for the University of Florence (once).
- External referee for PhD thesis for Roma Tor Vergata University (three times).
- External referee for PhD thesis for the University of Insubria (once).
- Member of the committee for a tenure-track position at Roma Tre University (2017).
- Member of the committee for a tenure-track position at the University of Ferrara (2020).
- Member of the committee for a tenure-track position at University of Napoli “Federico II” (2021).
- Member of the committee for a tenure-track position at University of Bologna (2022).

#### ORGANIZATION OF SEMINARS, LESSONS, AND SCHOOLS

- Co-organizer of official “Thursday” seminars at the Observatory/Astronomy Department (2009–2016).
- Co-organizer of internal cycles of seminars for PhD students:
  - ◊ “Physical properties of AGN”, 2010;
  - ◊ “Missing baryons”, 2011;
  - ◊ “Accretion onto compact objects and its role in shaping galaxies”, 2013;
  - ◊ “The high-redshift Universe, and the role of galaxies and AGN to cosmic reionization”, 2015;
  - ◊ “A multi-wavelength view of the Galactic Center, 2017”.
- Member of the LOC for the PhD School of Astrophysics “Francesco Lucchin” held in Bertinoro, 18–23 September, 2016 (topics: *The Hot and Energetic Universe through high-resolution spectroscopy; Techniques and strategies to search for signs of Life in the Solar System: new results from Rosetta*).
- Co-organizer (and teacher) at the Winter school on X-ray data analysis at Fudan University (Shanghai, China, January 2018).
- Co-organizer of the Chandra/CIAO school in Bologna (September 2019).
- Co-organizer of the event for the thirty years from the death of Giuseppe Occhialini in Fossombrone (May 2023).

- Co-organizer of the Summer School “Remote Sensing and Processing” in Bologna (V edition, July 2023).
- Co-organizer of the CTAO school (and member of the SOC) in Bertinoro (June 2024).
- Co-organizer of the CTAO school (and member of the SOC) in Bertinoro (June 2025).
- Co-organizer of the Summer School “Remote Sensing and Processing” in Bologna – Physics for a Better Planet (VII edition, July 2025).

## TEACHING AND ASSISTANCE TO LABORATORY ACTIVITIES

(in blue those still “active” in AA2025-26). Chronological order.

### ▶ **Esperimentazioni di Fisica II**

Assistance in lab. — AA2004-05 till AA2009-10.

### ▶ **Multiwavelength Astrophysics Laboratory (former: Laboratorio di Astrofisica)**

Teaching course + assistance in lab. — AA2005-06 – current (excluding AA2010-11).

### ▶ **Elementi di Informatica – Elementi di Programmazione I**

Assistance in lab. – AA2006-07 + AA2008-09.

### ▶ **Elementi di Programmazione III**

Assistance in lab. — AA2007-08.

### ▶ **Calcolo per l’Astronomia**

Assistance in lab. – AA2009-10.

### ▶ **Astrofisica delle Alte Energie – High-energy Astrophysics**

Teaching course — AA2009-10 till AA2019-20 (excluding AA2010-11).

### ▶ **Esperimentazioni di Fisica I**

Assistance in lab. — AA2011-12.

### ▶ **Attività professionalizzante – Professional skills**

Evaluation of presentations made by students on research topics in Astrophysics and Cosmology: discussion on the physical basis of a problem, the state-of-the-art of the research in that sector, the novelty of the results, their impact on that specific problem, and the possible weaknesses – AA2011-12 till AA2014-15 + AA2020-21 – current.

### ▶ **Fisica per Biologia**

Assistance in lab. — AA2014-15 till AA2019-20.

### ▶ **Active Galactic Nuclei and Supermassive Black Holes (former: Galassie Attive)**

Teaching course — AA2020-21 – current.

### ▶ **Internship**

Support to activities carried out by students (data analysis, acquisition of new competences in observational/numerical/theoretical astrophysics, participation in schools, workshops, and meetings, public-outreach events, scientific communication) — AA2022-23 – current.

► **SPICES, II level master, Space mission science, design and applications (Bologna University, DIFA)**

Ten-hour lessons on “Analysis of astrophysical data. Properties and strength of X-rays”, 2021, 2022, 2023. Eight-hour lessons on “Analysis of astrophysical data. Properties and strength of X-rays”, 2024, 2025, 2026. Reference tutor for the internship project of Srivastava Smiriti (2022), Paolo Calabretto (2023), Massimiliano Zago (2024), Federica Sibani (2026).

**SCHOOLS:**

► **Winter school on X-ray data analysis at Fudan University (Shanghai, China)**

Two weeks of lessons and X-ray data reduction, analysis and interpretation of AGN – January 2018.

► **“Remote Sensing and Processing” Summer School (Bologna)**

Lesson on *X-ray Astronomy: data collection and analysis* – July 2020.

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## LIST OF PUBLICATIONS

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My publication list includes 444 accepted publications on refereed journals (as end of December, 2025, 24 as first author) plus 31 works published as refereed contributions to astronomical meetings (four as first author), 80 as unrefereed proceedings (21 as first author), 13 supporting papers (for the *Athena+* mission, *LOFT*, Decadal Survey, *AtLAST*, *PRIMA*, *LISA*, *SKAO*), two ESO Expanding Horizons White Papers, and two ESO Messengers articles.

### JOURNAL ARTICLES

#### 1997

**R1.** Cappi M., Matsuoka M., Comastri A., Brinkmann W., Elvis M., Palumbo G.G.C., **Vignali C.**  
*ASCA and ROSAT X-ray Spectra of High-Redshift Radio-Loud Quasars*  
1997, ApJ 478, 492

#### 1998

**R2.** Comastri A., **Vignali C.**, Cappi M., Matt G., Audano R., Awaki H., Ueno S.  
*On the nature of the X-ray absorption in the Seyfert 2 galaxy NGC 4507*  
1998, MNRAS 295, 443

**R3.** **Vignali C.**, Comastri A., Stirpe G.M., Cappi M., Palumbo G.G.C., Matsuoka M., Malaguti G., Bassani L.  
*ASCA detection of the Fe K edge in the spectrum of the Seyfert 2 galaxy IRAS 04575–7537: a sign of a complex absorber*  
1998, A&A 333, 411

#### 1999

**R4.** **Vignali C.**, Comastri A., Cappi M., Palumbo G.G.C., Matsuoka M., Kubo H.  
*Probing the hard X-ray properties of high-redshift Radio-Quiet Quasars with ASCA*  
1999, ApJ 516, 582

#### 2000

**R5.** **Vignali C.**, Mignoli M., Comastri A., Maiolino R., Fiore F.  
*Optical, near-infrared and hard X-ray observations of SAXJ1353.9+1820: a red quasar*  
2000, MNRAS 314, L11

**R6.** Maiolino R., Salvati M., Antonelli L.A., Comastri A., Fiore F., Ghinassi F., Gilli R., La Franca F., Mannucci F., Risaliti G., Thompson D., **Vignali C.**  
*Optically dim counterparts of hard X-ray selected AGNs*  
2000, A&A 355, L47

**R7.** Fiore F., La Franca F., **Vignali C.**, Comastri A., Perola G.C., Cappi M., Elvis M., Nicastro F.  
*Spectroscopic identification of ten faint hard X-ray sources discovered by Chandra*  
2000, New Astronomy 5, 143

**R8.** Severgnini P., Maiolino R., Salvati M., Axon D., Cimatti A., Fiore F., Gilli R., La Franca F., Marconi M., Matt G., Risaliti G., **Vignali C.**  
*Sub-mm and X-ray background: two unrelated phenomena ?*  
2000, A&A 360, 457

**R9. Vignali C.**, Comastri A., Nicastro F., Matt G., Fiore F., Palumbo G.G.C.  
*On the peculiar X-ray properties of the bright nearby radio-quiet quasar PDS 456*  
2000, A&A 362, 69

**R10.** Costantini E., Nicastro F., Fruscione A., Mathur S., Comastri A., Elvis M., Fiore F., Salvini C., Stirpe G.M., **Vignali C.**, Wilkes B., O'Brien P.T., Goad M.R.  
*The complex X-ray absorbers of NGC 3516 observed by BeppoSAX*  
2000, ApJ 544, 283

## 2001

**R11.** Comastri A., Stirpe G.M., **Vignali C.**, Brandt W.N., Leighly K.M., Fiore F., Guainazzi M., Matt G., Nicastro F., Puchnarewicz E.M., Siemiginowska A.  
*BeppoSAX observations of Narrow-line Seyfert 1 galaxies: II. Ionized iron features in Arakelian 564*  
2001, A&A 365, 400

**R12. Vignali C.**, Comastri A., Fiore F., La Franca F.  
*The BeppoSAX High Energy Large Area Survey – IV. On the soft X-ray properties of the hard X-ray-selected HELLAS sources*  
2001, A&A 370, 900

**R13.** Fiore F., Giommi P., **Vignali C.**, Comastri A., Matt G., Perola G.C., La Franca F., Molendi S., Tamburelli F., Antonelli A.  
*The BeppoSAX High Energy Large Area Survey HELLAS – II: Number counts and X-ray spectral properties*  
2001, MNRAS 327, 771

**R14.** Comastri A., Fiore F., **Vignali C.**, Matt G., La Franca F., Perola G.C.,  
*The BeppoSAX High Energy Large Area Survey – III: testing synthesis models for the X-ray background*  
2001, MNRAS 327, 781

**R15.** Brandt W.N., Hornschemeier A.E., Schneider D.P., Alexander D.M., Bauer F.E., Garmire G.P., **Vignali C.**  
*The Chandra Deep Field-North Survey. VII. X-ray emission from Lyman break galaxies*  
2001, ApJ 558, L5

**R16. Vignali C.**, Brandt W.N., Fan X., Gunn J.E., Kaspi S., Schneider D.P., Strauss M.A.  
*Exploratory Chandra observations of the highest-redshift quasars: X-rays from the dawn of the modern Universe*  
2001, AJ 122, 2143

## 2002

**R17.** Baldi A., Molendi S., Comastri A., Fiore F., Matt G., **Vignali C.**  
*The HELLAS2XMM survey: I. The X-ray data and the Log(N)-Log(S)*  
2002, ApJ 564, 190

**R18. Vignali C.**, A. Comastri  
*Disclosing the true nature of the Seyfert 2 galaxy NGC 3281: one more Compton-thick source*  
2002, A&A 381, 834

**R19.** Alexander D.M., **Vignali C.**, Bauer F.E., Brandt W.N., Hornschemeier A.E., Garmire G.P., Schneider D.P.  
*The Chandra Deep Field-North Survey. X. X-ray emission from very red objects*  
2002, AJ 123, 1149

**R20.** La Franca F., Fiore F., **Vignali C.**, Antonelli A., Comastri A., Giommi P., Matt G., Molendi S., Perola G.C., Pompilio F.  
*The BeppoSAX High Energy Large Area Survey – V. The nature of the hard X-ray source populations and its evolution*

2002, ApJ 570, 100

**R21.** Comastri A., Mignoli M., Ciliegi P., Severgnini P., Maiolino R., Brusa M., Fiore F., Baldi A., Molendi S., Morganti R., **Vignali C.**, La Franca F., Matt G., Perola G.C.

*The HELLAS2XMM survey: II. Multiwavelength observations of P3: an X-ray bright, optically inactive galaxy*

2002, ApJ 571, 771

**R22.** Alexander D.M., Aussel H., Bauer F.E., Brandt W.N., Hornschemeier A.E., **Vignali C.**, Garmire G.P., Schneider D.P.

*The Chandra Deep Field-North Survey. XI. X-ray emission from luminous infrared starburst galaxies*

2002, ApJ 568, L85

**R23.** Bauer F.E., Alexander D.M., Brandt W.N., Hornschemeier A.E., **Vignali C.**, Garmire G.P., Schneider D.P.

*The Chandra Deep Field-North Survey. XII. The link between faint X-ray and radio source populations*

2002, AJ 124, 2351

**R24.** Malizia A., Malaguti G., Bassani L., Cappi M., Comastri A., Di Cocco G., Palazzi E., **Vignali C.**

*BeppoSAX/PDS identification of the true component of the Piccinotti source H 0914–074*

2002, A&A 394, 801

**R25.** **Vignali C.**, Bauer F.E., Alexander D.M., Brandt W.N., Hornschemeier A.E., Schneider D.P., Garmire G.P.

*The Chandra Deep Field-North Survey. XVI. The X-ray properties of moderate-luminosity Active Galaxies at  $z > 4$*

2002, ApJ 580, L105

## 2003

**R26.** Alexander D.M., Bauer F.E., Brandt W.N., Hornschemeier A.E., **Vignali C.**, Garmire G.P., Schneider D.P., Chartas G., Gallagher S.C.

*The Chandra Deep Field-North Survey. XIV. X-ray detected obscured AGNs and starburst galaxies in the bright submm source population*

2003, AJ 125, 383

**R27.** **Vignali C.**, Brandt W.N., Schneider D.P., Garmire G.P., Kaspi S.

*X-ray lighthouses of the high-redshift Universe. Probing the most luminous  $z > 4$  Palomar Digital Sky Survey Quasars with Chandra*

2003, AJ 125, 418

**R28.** **Vignali C.**, Brandt W.N., Schneider D.P.

*X-ray Emission from Radio-Quiet Quasars in the SDSS Early Data Release. The  $\alpha_{\text{ox}}$  dependence upon UV luminosity*

2003, AJ 125, 433

**R29.** Pellegrini S., Venturi T., Comastri A., Fabbiano G., Fiore F., **Vignali C.**, Morganti R., Trinchieri G.

*The nuclear accretion in the FR I radio galaxy IC 4296 from Chandra and VLBA observations*

2003, ApJ 585, 677

**R30.** **Vignali C.**, Brandt W.N., Schneider D.P., Anderson S.F., Fan X., Gunn J.E., Kaspi S., Richards G.T., Strauss M.A.

*Chandra and XMM-Newton observations of the first quasars: X-rays from the age of cosmic enlightenment*

2003, AJ 125, 2876

**R31.** Ciliegi P., **Vignali C.**, Comastri A., Fiore F., La Franca F., Perola G.C.

*The BeppoSAX High Energy Large Area Survey (HELLAS)-VI. The radio properties*

2003, MNRAS 342, 575

**R32.** Immler S., Brandt W.N., **Vignali C.**, Bauer F.E., Crenshaw D.M., Feldmeier J.J., Kraemer S.B.  
*Probing the complex and variable X-ray absorption of Markarian 6 with XMM-Newton*  
2003, AJ 126, 153

**R33.** Alexander D.M., Bauer F.E., Brandt W.N., Schneider D.P., Hornschemeier A.E., **Vignali C.**,  
Barger A.J., Broos P.S., Cowie L.L., Garmire G.P., Townsley L.K., Bautz M.W., Chartas G., Feigelson  
E.D., Sargent W.L.W.  
*The Chandra Deep Field-North Survey. XIII. 2 Ms point-source catalogs*  
2003, AJ 126, 539

**R34.** Fiore F., Brusa M., Cocchia F., Baldi A., Carangelo N., Ciliegi P., Comastri A., La Franca F.,  
Maiolino R., Matt G., Molendi S., Mignoli M., Perola G.C., Severgnini P., **Vignali C.**  
*The HELLAS2XMM survey. IV. Optical identifications and the evolution of the accretion luminosity in  
the Universe*  
2003, A&A 409, 79

**R35.** Brusa M., Comastri A., Ciliegi P., Mignoli M., **Vignali C.**, Severgnini P., Fiore F., Cocchia F.,  
La Franca F., Matt G., Perola G.C., Maiolino R., Baldi A., Molendi S.  
*The HELLAS2XMM survey. III. Multiwavelength observations of hard X-ray sources in the PKS 0312–77  
field*  
2003, A&A 409, 65

## 2004

**R36.** **Vignali C.**, Brandt W.N., Boller Th., Fabian A.C., Vaughan S.  
*Arakelian 564: An XMM-Newton view*  
2004, MNRAS 347, 854

**R37.** Mignoli M., Pozzetti L., Brusa M., Comastri A., Ciliegi P., Cocchia F., Fiore F., La Franca F.,  
Maiolino R., Matt G., Molendi S., Perola G.C., Puccetti S., Severgnini P., **Vignali C.**  
*The HELLAS2XMM Survey. V. Near-Infrared observations of X-ray sources with extreme X/O ratios*  
2004, A&A 418, 827

**R38.** Perola G.C., Puccetti S., Fiore F., Sacchi N., Brusa M., Cocchia F., Baldi A., Carangelo N.,  
Ciliegi P., Comastri A., La Franca F., Maiolino R., Matt G., Mignoli M., Molendi S., **Vignali C.**  
*The HELLAS2XMM Survey. VI. X-ray absorption in the 1df AGN sample through a spectral analysis*  
2004, A&A 421, 491

**R39.** Bassett L.C., Brandt W.N., Schneider D.P., **Vignali C.**, Garmire G.P.  
*Chandra observations of radio-loud quasars at  $z > 4$ : X-raying the radio beacons of the early Universe*  
2004, AJ 128, 523

**R40.** **Vignali C.**, Alexander D.M., Comastri A.  
*Evidence for X-ray obscuration in Type II quasar candidates from the Sloan Digital Sky Survey*  
2004, MNRAS 354, 720

## 2005

**R41.** Brusa M., Comastri A., Daddi E., Pozzetti L., Zamorani G., **Vignali C.**, Cimatti A., Fiore F.,  
Mignoli M., Ciliegi P., Röttgering H.J.A.  
*XMM-Newton observations of extremely red objects and the link with luminous, X-ray obscured quasars*  
2005, A&A 432, 69

**R42.** Alexander D.M., Chartas G., Bauer F.E., Brandt W.N., **Vignali C.**  
*A Chandra observation of the  $z = 2.285$  galaxy FSC 10214+4724: Evidence for a Compton-thick quasar?*  
2005, MNRAS 357, L16

**R43.** **Vignali C.**, Brandt W.N., Schneider D.P., Kaspi S.

*X-ray Lighthouses of the High-Redshift Universe. II. Further Snapshot Observations of the Most Luminous  $z \gtrsim 4$  Quasars with Chandra*  
2005, AJ 129, 2519

**R44.** Strateva I., Brandt W.N., Schneider D.P., Vanden Berk D.G., **Vignali C.**  
*Soft X-ray and ultraviolet emission relations in optically selected AGN samples*  
2005, AJ 130, 387

**R45.** Shemmer O., Brandt W.N., **Vignali C.**, Schneider D.P., Fan X., Richards G.T., Strauss M.  
*The X-ray spectral properties and variability of luminous high-redshift Active Galactic Nuclei*  
2005, ApJ 630, 729

**R46.** Lehmer D.B., Brandt W.N., Alexander D.M., Bauer F.E., Schneider D.P., Tozzi P., Bergeron J., Garmire G.P., Giacconi R., Gilli R., Hasinger G., Hornschemeier A.E., Koekemoer A.M., Mainieri V., Miyaji T., Nonino M., Rosati P., Silverman J.D., Szokoly G., **Vignali C.**  
*The Extended Chandra Deep Field-South Survey. Chandra Point-Source Catalogs*  
2005, ApJ Suppl. 161, 21

**R47.** **Vignali C.**, Brandt W.N., Comastri A., Darling J.  
*On the X-ray properties of OH megamaser sources: Chandra snapshot observations*  
2005, MNRAS 364, 99

**R48.** La Franca F., Fiore F., Comastri A., Perola G.C., Sacchi N., Brusa M., Cocchia F., Feruglio C., Matt G., **Vignali C.**, Carangelo N., Ciliegi P., Lamastra A., Maiolino R., Mignoli M., Molendi S., Puccetti S.  
*The HELLAS2XMM survey. VII. The hard X-ray luminosity function of AGN up to  $z = 4$ : more absorbed AGNs at low luminosities and high redshifts*  
2005, ApJ 635, 864

**R49.** Shemmer O., Brandt W.N., Gallagher S.C., **Vignali C.**, Boller Th., Chartas G., Comastri A.  
*XMM-Newton spectroscopy of highly polarized and luminous broad absorption line quasar CSO 755*  
2005, AJ 130, 2522

## 2006

**R50.** Maiolino R., Mignoli M., Pozzetti L., Severgnini P., Brusa M., **Vignali C.**, Puccetti S., Ciliegi P., Cocchia F., Comastri A., Fiore F., La Franca F., Matt G., Molendi S., Perola G.C.,  
*The HELLAS2XMM survey. IX. Spectroscopic identification of super-EROs hosting AGNs*  
2006, A&A 445, 457

**R51.** Lopez L.A., Brandt W.N., Schneider D.P., **Vignali C.**, Chartas G., Garmire G.P.  
*A Chandra snapshot survey of representative high-redshift radio-loud quasars from the Parkes-MIT-NRAO sample*  
2006, AJ 131, 1914

**R52.** Steffen A.T., Strateva I., Brandt W.N., Alexander D.M., Koekemoer A.M., Lehmer B.D., Schneider D.P., **Vignali C.**  
*The  $\alpha_{\text{ox}}$  Properties of Optically-Selected Active Galaxies Over Wide Luminosity and Redshift Ranges*  
2006, AJ 131, 2826

**R53.** Puccetti S., Fiore F., D'Elia V., Pillitteri I., Feruglio C., Grazian A., Brusa M., Ciliegi P., Comastri A., Gruppioni C., Mignoli M., **Vignali C.**, Zamorani G., La Franca F., Sacchi N., Franceschini A., Berta S., Buttery H., Dias J.E.  
*The XMM-Newton survey of the ELAIS-S1 field: I. Number counts, angular correlation function and X-ray spectral properties*  
2006, A&A 457, 501

**R54.** **Vignali C.**, Alexander D.M., Comastri A.  
*The quest for Type 2 quasars: Chandra observations of luminous obscured quasars in the Sloan Digital Sky Survey*

## 2007

**R55.** Rodighiero G., Gruppioni C., Civano F., Comastri A., Franceschini A., Mignoli M., Fritz J., **Vignali C.**, Treu T.

*Hidden activity in high-redshift spheroidal galaxies from mid-infrared and X-ray observations in the GOODS-North Field*

2007, MNRAS 376, 416

**R56.** Cocchia F., Fiore F., **Vignali C.**, Mignoli M., Brusa M., Comastri A., Feruglio C., Baldi A., Carangelo N., Ciliegi P., D'Elia V., La Franca F., Maiolino R., Matt G., Molendi S., Perola G.C., Puccetti S.

*The HELLAS2XMM survey: VIII. Optical identifications of the extended sample*

2007, A&A 466, 31

**R57.** Pozzi F., **Vignali C.**, Comastri A., Pozzetti L., Mignoli M., Gruppioni C., Zamorani G., Lari C., Civano F., Brusa M., Fiore F., Maiolino R., La Franca F.

*The HELLAS2XMM survey. X. The bolometric output of luminous obscured quasars: The Spitzer perspective*

2007, A&A 468, 603

**R58.** Brusa M., Zamorani G., Comastri A., Hasinger G., Cappelluti N., Civano F., Finoguenov A., Mainieri V., Salvato M., **Vignali C.**, et al.

*The XMM-Newton wide-field survey in the COSMOS field. III. Optical identification and multiwavelength properties of a large sample of X-ray selected sources*

2007, ApJ Suppl. 172, 353

**R59.** Mainieri V., Hasinger G., Cappelluti N., Brusa M., Brunner H., Civano F., Comastri A., Finoguenov A., Fiore F., Gilli R., Lehmann I., Silverman J., Tasca L., **Vignali C.**, et al.

*The XMM-Newton wide-field survey in the COSMOS field. IV. X-ray spectral properties of Active Galactic Nuclei*

2007, ApJ Suppl. 172, 368

**R60.** Civano F., Mignoli M., Comastri A., **Vignali C.**, Fiore F., Pozzetti L., Brusa M., La Franca F., Matt G., Puccetti S., Cocchia F.

*The HELLAS2XMM Survey: XI. Unveiling the nature of XBONGs*

2007, A&A 476, 1223

## 2008

**R61.** Fiore F., Grazian A., Santini P., Puccetti S., Brusa M., Feruglio C., Fontana A., Giallongo E., Comastri A., Gruppioni C., Pozzi F., Zamorani G., **Vignali C.**

*Unveiling obscured accretion in the Chandra Deep Field-South*

2008, ApJ 672, 94

**R62.** Silverman J.D., Mainieri V., Lehmer B.D., Alexander D.A., Bauer F.E., Bergeron J., Brandt W.N., Gilli R., Hasinger G., Schneider D.P., Tozzi P., **Vignali C.**, Koekemoer A.M., Miyaji T., Popesso P., Rosati P., Szokoly G.

*The Evolution of AGN Host Galaxies: From Blue to Red and the the Influence of Large-Scale Structures*

2008, ApJ 675, 1025

**R63.** Ballo L., Giustini M., Schartel N., Cappi M., Jimenez-Bailon E., Piconcelli E., Santos-Lleo M., **Vignali C.**

*X-ray spectral variability in PG 1535+547: the changing-look "soft X-ray weak" AGN*

2008, A&A 483, 137

**R64.** Gruppioni C., Pozzi F., Polletta M., Zamorani G., La Franca F., Sacchi N., Comastri A., Pozzetti L., **Vignali C.**, Lonsdale C., Rowan-Robinson M., Surace J., Shupe D., Fang F., Matute I., Berta S.

*The contribution of AGN and star-forming galaxies to the mid-infrared as revealed by their spectral energy distributions*

2008, ApJ 684, 136 (Erratum in 2009, ApJ 701, 850)

**R65.** Vignali C., Piconcelli E., Bianchi S., Miniutti G.

*On the peculiar properties of the narrow-line quasar PG 1543+489*

2008, MNRAS 388, 761

**R66.** Feruglio C., Fiore F., La Franca F., Sacchi N., Puccetti S., Comastri A., Berta S., Brusa M., Franceschini F., Gruppioni C., Mathur S., Matute I., Mignoli M., Pozzi F., **Vignali C.**, Zamorani G.

*The XMM-Newton survey of the ELAIS-S1 field II: optical identifications and multiwavelength catalogue of X-ray sources*

2008, A&A 488, 417

**R67.** Luo B., Bauer F.E., Brandt W.N., Alexander D.M., Lehmer B.D., Schneider D.P., Brusa M., Comastri A., Fabian A.C., Finoguenov A., Gilli R., Hasinger G., Hornschemeier A.E., Koekemoer A., Mainieri V., Paolillo M., Rosati P., Shemmer O., Silverman J.D., Smail I., Steffen A.T., **Vignali C.**

*The Chandra Deep Field-South Survey: 2 Ms source catalogs*

2008, ApJ Suppl. 179, 19

**R68.** Fedorova E.V., Zhdanov V.I., **Vignali C.**, Palumbo G.G.C.

*Q2237+0305 in X-rays: spectra and variability with XMM-Newton*

2008, A&A 490, 989

**R69.** Giustini M., Cappi M., **Vignali C.**

*On the absorption of X-ray bright Broad Absorption Line Quasars*

2008, A&A 491, 425

## 2009

**R70.** Arnaud M., Barcons X., Barret D., [...], **Vignali C.**, [...]

*XEUS: the physics of the hot evolving Universe*

2009, Experimental Astronomy 23, 139

**R71.** Fiore F., Puccetti S., Brusa M., [...], **Vignali C.**, [...]

*Chasing highly obscured QSOs in the COSMOS field*

2009, ApJ 693, 447

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2022, A&A, 657, A57

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- R342.** Costanzo D., Dadina M., **Vignali C.**, De Marco B., Cappi M., Petrucci P.O., Bianchi S., Kriss G.A., Kaastra J.S., Mehdipour M., Behar O., Matzeu G.A.  
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- R343.** Esposito F., Vallini L., Pozzi F., Casasola V., Mingozzi M., **Vignali C.**, Gruppioni C., Salvestrini F.  
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- R345.** Salvestrini F., Gruppioni C., Hatziminaoglou E., Pozzi F., **Vignali C.**, Casasola V., Paladino R., Aalto S., Andreani P., Marchesi S., Stanke T.  
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- R346.** Bertola E., **Vignali C.**, Lanzuisi G., Dadina M., Cappi M., Gilli R., Matzeu G.A., Chartas G., Piconcelli E., Comastri A.  
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- R347.** Sacchi A., Risaliti G., Signorini M., Lusso E., Nardini E., Bargiacchi G., Bisogni S., Civano F., Elvis M., Fabbiano G., Gilli R., Trefoloni B., **Vignali C.**  
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- R350.** Vito F., Mignoli M., Gilli R., Brandt W.N., Shemmer O., Bauer F.E., Bisogni S., Luo B., Marchesi S., Nanni R., Zamorani G., Comastri A., Cusano F., Gallerani S., **Vignali C.**, Lanzuisi F.  
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2022, ApJ, 935, 114

**R353.** Marinucci A., Vietri G., Piconcelli E., Bianchi S., Guainazzi M., Lanzuisi G., Stern D., **Vignali C.**

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2023, A&A, 670, 182

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2023, A&A, 670, 183

**R358.** Saccheo I., Bongiorno A., Piconcelli E., Testa V., Bischetti M., Bisogni S., Bruni G., Cresci G., Feruglio C., Fiore F., Grazian A., Luminari A., Lusso E., Mainieri V., Maiolino R., Marconi A., Ricci F., Tombesi F., Travascio A., Vietri G., **Vignali C.**, Zappacosta L., La Franca F.

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2023, A&A, 673, A92

- R361.** Kakkad K., Mainieri V., Vietri G., Lamperti I., Carniani S., Cresci G., Harrison C.M., Marconi A., Bischetti M., Cicone C., Circosta C., Husemann B., Man A., Mannucci F., Netzer H., Padovani P., Perna M., Puglisi A., Scholtz J., Tozzi G., **Vignali C.**, L. Zappacosta  
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- R363.** Ciurlo A., Mannucci F., Yeh S., Amiri A., Carniani S., Cicone C., Cresci G., Khatun R., Lusso E., Marasco A., Marconcini C., Marconi A., Nardini E., Pancino E., Rosati P., Severgnini P., Scialpi M., Tozzi G., Venturi G., **Vignali**, Volonteri M.  
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- R364.** Bonanomi F., Cicone C., Severgnini P., Braitto V., **Vignali C.**, Reeves J.N., Sirressi M., Montoya Arroyave I., Della Ceca R., Ballo L., Dotti M.  
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- R380.** Slaus B., Smolcic V., Izevic Z., Fotopoulou S., Willott C.J., Pendo P., **Vignali C.**, Chiappetti L., Pierre M.  
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- R382.** Torbaniuk O., Paolillo M., D'Abrusco R., **Vignali C.**, Georgakakis A., Carrera F., Civano F.  
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- R383.** Marchesi S., Eagle J., Ajello M., Castro D., Dominguez A., Mori K., Tibaldo L., Tomsick J., Traina A., **Vignali C.**, Zanin R.  
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- R384.** Pouliaxis E., Ruiz A., Georgantopoulos I., Vito F., Gilli R., **Vignali C.**, Ueda Y., Koulouridis E., Akiyama M., Marchesi S., Laloux B., Nagao T., Paltani S., Pierre M., Toba Y., Habouzit M., Vijarnwannaluk B., Gerrel C.  
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2024, *A&A*, 686, A250
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- R395.** Lanzuisi G., Matzeu G., Baldini P., Bertola E., Comastri A., Tombesi F., Luminari A., Braitto V., Reeves J., Chartas G., Bianchi S., Brusa M., Nardini E., Piconcelli E., Zappacosta L., Serafinelli R., Gaspari M., Gilli R., Cappi M., Dadina M., Perna M., **Vignali C.**, Veilleux S.  
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- R397.** Elias-Chavez M., Longinotti A.L., Krongold Y., Rosa-Gonzalez D., **Vignali C.**, Mathur S., Miyaji T., Mayya Y.D., Nicastro F.  
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**R399.** Laurenti M., Tombesi F., Vagnetti F., Piconcelli E., Guainazzi M., **Vignali C.**, Paolillo M., Middei R., Bongiorno A., Zappacosta L.

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