

Anna Wolter

Curriculum Vitae et Studiorum

INAF-Osservatorio Astronomico di Brera
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Education and Positions Held:

Present position: **Primo Ricercatore** at INAF-Osservatorio Astronomico di Brera, Milano (Italy).

2020-present **INAF Representative** for CTA and ASTRI Outreach

2019-present **Primo Ricercatore** at INAF-Osservatorio Astronomico di Brera, Milano (Italy).

2017-present Member of the Editorial Board for the National **EduINAF** site.

2016-present Chair of the Regional board for Astronomy **Olympic Games**.

2015-present Member of the Editorial Board for the Italian **AstroEDU** site.

2015-present Point of Contact for IAU Division D for the **IAU Office of Astronomy for Development**

2013-2018 Member of the **IAU Division D Steering Committee**

27 Dec 2013 **Abilitazione Scientifica Nazionale**, i.e. National Academic Qualification as Associate Professor

2010-present **Italian Representative** of the ESO Science Outreach Network (**ESON**)

1991-2018 **Ricercatore Astronomo** at INAF-Osservatorio Astronomico di Brera, Milano (Italy). From November 1991 to August 1992 on maternity leave.

1990 **Harvard-Smithsonian Center for Astrophysics**, Cambridge, Mass. (USA). Visiting Scientist: to complete the EMSS atlas.

1990 **ESA-ESTEC**, Noordwijk. Visiting Scientist: to write scientific software for the community under ESA instructions.

1986-1990 **Harvard-Smithsonian Center for Astrophysics**. Cambridge, Mass. (USA) Physicist, High Energy Astrophysics Division. Survey of Einstein serendipitous sources. Analysis of X-ray sources. Multi-wavelength studies. BL Lacs.

1986 **Harvard-Smithsonian Center for Astrophysics**, Cambridge, Mass. (USA). Visiting Scientist, High Energy Astrophysics Division. Analysis and software preparation for serendipitous sources detection and database preparation from Einstein data.

1980-1985 **Università degli Studi**, Milano, Facoltà di Scienze, Dipartimento di Fisica. Specialized courses: Radio Astronomy, Cosmic Physics. Laurea, Doctoral Degree in Physics. Thesis on “The BL Lac Object PKS2155-304: results from EXOSAT observations”. Advisor Dr. D. Maccagni, Co-advisor Prof. L. Maraschi.

Personal data

Born in Milano, Italy, 29 April 1960. 1 daughter.
Languages: Italian, English, Spanish, German

Research Interests

After my degree in Milano, I moved to CfA where my scientific career began. I participated in constructing one of the best exploited surveys of X-ray sources, serendipitously found in the Einstein Observatory images. I dealt with all sort of X-ray emitters, from stars to clusters of galaxies, but the main interest was with the class of the highly luminous galaxy nuclei called BL Lacs, for which I studied the surface distribution and Luminosity Function in the X-ray band. More recently I moved from the point-like sources at the center of galaxies to the diffuse/unresolved emission within them. I now devote much of my time to the study of UltraLuminous X-ray sources, a puzzling class of sources in external galaxies, which probably harbour heavy black holes, intermediate between the stellar ones and the supermassive at the center of galaxies, or might represent instances of super-Eddington accretion. The basic wavelength of interest is always the X-ray band, but I believe in a multi-wavelength approach to reach insight in astronomical quests. Therefore I worked with almost every energy band accessible. I am PI of successful optical, radio and X-ray observations of various celestial sources. I have always dedicated time to teaching and mentoring students. Since 2000 I devoted a significant fraction of my time to both Didactic and Outreach activities.

I summarize here the main topics of my studies:

Extragalactic X-ray Astronomy: statistical analysis of complete samples,
X-ray source counts and XLF
Active Galactic Nuclei: observations and data analysis in X-ray and Gamma regimes
with particular emphasis on BL Lac Objects
Study of Ultra Luminous X-ray sources in external galaxies
Study of diffuse X-ray emission: in galaxies and galaxy clusters

Selected bibliography

From the ADS database (scientific paper): Total number selected: 228 (of which 118 refereed).
Total citations: 5687
See attached bibliography for a complete list of scientific works and a selected list of Outreach publications.

Recent service activity

Member of the Scientific Organizing Committee for the International Symposium “20 Years of Chandra Science Symposium”, Boston Dec 2019.

Member of the Local Organizing Committee for the National Congress of AGN, AGN 13: “The beauty and the beast”, Milano, Oct 2018.

Chair of the Selection Committee for the Regional level of the Astronomy Olympic Games, Milano, Feb 2017-2021.

Member of the Scientific Organizing Committee for the International Workshop “Exploring the X-ray Transient and Variable Sky” Pavia, 21-21 November 2016.

Member of the Local Organizing Committee for the National Finals of the Astronomy Olympic Games, Milano, May 2016.

Chair of the Local Organizing Committee for the Congress of the Italian Astronomical Society “Strutture cosmiche: dal Sistema Solare ai confini dell’Universo” Milano, 13-15 May 2014.

Member of the Scientific Organizing Committee for the Congress “Chandra’s First Decade of Discovery” Boston, 22-25 September 2009.

Member of the Local Organizing Committee for the Congress “Accretion and Ejection in Agn: a Global View”, Como, 22-26 June 2009.

Member of the Scientific Organizing Committee for the VIII National AGN congress in Torino, 17-19 May 2008.

Member of the Local Organizing Committee for the XLVIII Sait National Congress in Milano “I colori dell’universo: astronomia italiana dalla terra e dallo spazio” Milano, 19-23 April 2004.

Chair of several Time Allocation Committees for the Chandra X-ray observatory.

Member of several Time Allocation Committees for X-ray observatories (Chandra and XMM-Newton).

Member of the Italian Time Allocation Committees for radio telescopes (Noto and Medicina).

Member of several examining commissions for competitions at CNR and INAF.

Principal Investigator and coauthor of successful proposals for High Energy Observatories (Chandra, XMM-Newton, Integral, BeppoSAX, ASCA, ROSAT), and O/IR (ESO, TNG, S.Pedro Martir, TIRGO, ISO), and radio (VLA) telescopes.

Referee for various international scientific Journals (e.g. ApJ, A&A, MNRAS).

Editor of the proceedings for XLVIII Congresso Nazionale della SAIIt, Supplemento ai Volumi delle Memorie della SAIIt, “48-esimo Congresso della Società Astronomica Italiana: I Colori dell’Universo - Astronomia Italiana dalla Terra e dallo Spazio” Eds: Anna Wolter, Gianluca Israel e Francesca Bacciotti.

Scientific coordinator at national and local level of Research Projects financed by the Italian Space Agency (ASI).

Scientific coordinator at national and local level of Research Projects financed by the Istituto Nazionale di Astrofisica (INAF).

Educational and Outreach activity in last 10 years

Roles

- 2020-present INAF Representative for the Outreach Activity of the international Cerenkov telescope array Observatory (CTA)
- 2019-present Convenor for the Outreach Activity of the Italian Cerenkov telescope array ASTRI
- 2017-present Member of the Editorial Board for the National **EduINAF** site.
- 2016-2021 Chair of the Regional Board for **Italian Astronomy Olympic Games**.
- 2015-present Member of the Editorial Board for the Italian **AstroEDU** site.
- 2010-present **Italian Representative** of the ESO Science Outreach Network (**ESON**)

Activities

- Laboratory course for Optical Observations in the context of the Astrophysics curriculum at Università degli Studi di Milano for laurea and Dottorato students: AA 2011/2012; 2012-2013; 2013-2014; 2014-2015; 2015-2016; 2016-2017, 2017-2018, 2018-2019.
- Monographic lessons in the context of the Astrophysics curriculum course at Università degli Studi di Milano-Bicocca, Facoltà di Scienze MFN: A.A. 2007/2008; 2008/2009.
- Post-laurea and Post-Doc positions tutor in the context of the Research projects for which I am Scientific Coordinator.
- Guido Consolandi 2018
 - Fabio Pintore 2013
 - Sonia Tamburri 2012
 - Fabio Pizzolato 2009
 - Elisabetta Memola 2008
 - Lea Giordano 2005
 - Francesca Panessa 2005
 - Volker Beckmann 2000-2001
- Advisor for PhD at Università di Milano Bicocca, Facoltà di Scienze MFN.
- Chiara Salvaggio 2018-
- Advisor for Laurea, Laurea Magistrale, Laurea Triennale thesis at Università degli Studi di Milano, Facoltà di Scienze MFN and Università di Milano Bicocca, Facoltà di Scienze MFN.
- Chiara Salvaggio 2017 - 2018
 - Giovanni Costantini 2015 - 2015
 - Mattia Villani 2010 - 2011 Uni Pavia
 - Diletta Pagnoni 2009 - 2010
 - Laura di Gesu 2009 - 2010
 - Stefano Rota 2-009 - 2010
 - Erika Crivellari 2006 - 2007
 - Francesco Borsa 2005
 - Davide Vasco 2005
 - Francesca Cavallotti 2003
 - Boris Sbarufatti 2001 - 2002

Edoardo Radice 1996 - 1997

More than 100 conferences and lessons for high school and middle school classes on various astrophysical topics, under the “Public Outreach and Education” program at OAB.

More than 100 conferences and lessons for the public at large under the “Public Outreach and Education” program at OAB and self-organized. In particular at Observatory itself; at the Milano Hoepli Planetarium; at Universities for the elders; lessons for Physics teachers and students.

Participation as a guest to Television and radio programs (most notably on April 2012 at the major Italian National Channel program “Uno Mattina” and on the “Focus” program on the private TV Rete 4 in 2019; on the transit of Mercury for the program *Caterpillar* and on the Gravity instrument of ESO for the program *Radio 3 Scienza*.)

Jury member and organizer for local (in Milano) and national (in Perugia) selection of FAME-LAB in Italy for 2014.

Organization of Outreach Events (Museo Nazionale di Storia Naturale; Festival della Scienza; Notte dei Ricercatori).

Advanced Education for high school teachers (Scuola di Aggiornamento per insegnanti INAF-SAIIt di Astronomia e Astrofisica “Laboratori di Astronomia e Astrofisica nelle scuole tramite risorse e servizi ICT.” 9-12 sett 2017 , Padova; Scuola di Aggiornamento per insegnanti organizzata da AIF, sezione Pavia; 25 settembre 2019 23 ottobre 2019: XXXXII Corso di aggiornamento in fisica, anno 2019)

ESO Astronomy Camp (2015-2019) at Osservatorio Astronomico della Valle d’Aosta. Various lessons on Extrasolar planets, citizen science and the Multiwavelength Universe.

Technical Expertise

Proficiency in several astronomical data reduction packages (e.g. CIAO, FTOOLS, XSPEC, SAS, AIPS, IRAF, QDP, CASA)

Extensive experience in software writing, testing and documentation

Working knowledge of operating systems and programming languages (Fortran 77, python, SM, Unix OS - Linux, Mac OS)

Experience with astronomical databases

Experience operating ground-based optical telescopes and spectrographs

Professional Associations:

American Astronomical Society (AAS)

International Astronomical Union (IAU)

Competitive Grant Awards

Financial resources for my research activity come mainly from MIUR and ASI proposals.

- 1998 ASI “Osservazioni BeppoSAX - Blazar e galassie” EAPR400113 **Local PI**
- 1998 PRIN MIUR Studi Statistici di Campioni di Nuclei Galattici Attivi Selezionati in X
- 2000 ASI 1/R/27/00 Osservazioni SAX **Local PI**
- 2000 studi statistici di campioni di nuclei galattici attivi selezionati in X
- 2001 CNR-ASI I/R73/01 Osservazioni SAX **Local PI**
- 2001 PRIN MIUR Emissione X e Gamma da getti relativistici
- 2002 CNR-ASI I/R73/02 Osservazioni SAX **Local PI**
- 2003 PRIN MIUR La storia dell’accrescimento nell’Universo studiata nella banda X
- 2005 ASI-INAF I/023/05/0: Tracing galaxy evolution: the role of environment and AGN feedback **National PI**
- 2008 PRIN-INAF 2007-26 “Probing the Nature of Ultraluminous X-ray Sources” **Local PI**
- 2009 PRIN MIUR 2008 Studio dei getti relativistici e del fondo cosmico con i blazars
- 2012 PRIN-INAF-2011-1 “Challenging Ultraluminous X-ray sources: chasing their black holes and formation pathways” **Local PI**
- 2014 ASI - INAF I/037/12/0 “Accretion onto stellar and intermediate-mass compact objects with NuSTAR”
- 2016 ASI - INAF I/037/12/X “Accretion onto stellar and intermediate-mass compact objects with NuSTAR”
- 2017 PRIN SKA-CTA “ACDC - ASTRI/CTA Data Challenge, 2015-023- R.0 ”
- 2017 Accordo ASI-INAF “ExtraS” 2017-14-H.0
- 2019 Accordo ASI-INAF “Ultras”

A brief summary of the astronomical topics under my study

All the activity mentioned here is with reference to the list of published papers.

EMSS: I started working at the Extended Medium Sensitivity Survey (EMSS) in 1986, at the High Energy Division of the Center for Astrophysics of the Smithsonian Astrophysical Observatory (Cambridge, MASS - USA) in collaboration with Isabella Gioia, Tommaso Maccacaro and other colleagues. The aim was to construct a sizeable and statistically well defined sample of X-ray serendipitous sources, collected from the Einstein Observatory IPC images at high galactic latitude. The EMSS has been, for years, the reference point for Cosmology studies and for the statistical analysis of different properties of classes of X-ray emitters. Infact we were able to characterize all classes of astronomical sources that have X-ray detections, for the first time with a rigorous and statistically sound approach. The methodology used has been followed by a large fraction of the scientific community. My main interest in the project, beside the observations and informatic support, was on the BL Lac objects, subject of my Degree Thesis. They are active nuclei with a jet pointed at our line of sight, characterized by lack of emission lines, which I have studied further after the end of the EMSS work.

BL LACs and Blazars: I derived for the first time the surface density of BL Lacs with a statistical significant sample. Then I analyzed their cosmological evolution and luminosity function with the EMSS sample. The class now comprises also those objects with emission line that are dominated by the jet and the interaction between the jet and the accretion disk, namely the Flat Spectrum Radio Quasars (FSRQs) under the general label of Blazars. I have obtained data in the X-ray band with BeppoSAX, Chandra and XMM-Newton to study the temporal evolution of the high energy emission, and with the VLA to study the morphology of radio jets. A subsample, that of the High-Peaked BL Lacs (HBL), with the synchrotron peak in the X-ray band, allows the selection of the TeV emitters. Recently I have started addressing the very high energy production mechanisms and possibility of detection with Cerenkov Arrays of the extreme Blazars.

QSOs: The radio loud AGN from the EMSS have been studied in the framework of a sequence of radio dominance and spectral appearance that include blazars. I have investigated the two subclasses of Flat spectrum and Steep spectrum AGN finding no significant differences in their evolutionary properties. I have also addressed the issue of obscuration, which, in the context of the Unified Model of AGNs should be linked to the line of sight to the dust torus that encompasses the nucleus, thereby excluding the direct view of the Broad Line Regions (BLRs). A number of “composite” objects that blur the definition have been derived, and a few objects with different behaviour in the optical and X-ray band have been found.

Diffuse Emission: The study of galaxy cluster with the EMSS has led to the first assessment of negative cosmological evolution for the brightest sources. I have studied in detail a few single objects (e.g. RX J1821.6+6827 and NGC 4261). I have also collected data at various wavelengths for samples of local galaxies, that can be used as a testbed for cosmological surveys. We now know that the presence of hot gas in elliptical galaxies cannot be ascribed uniquely to their masses and optical luminosities, and it can range from virtually missing to being the dominant component in the energetic of the galaxy. At this time I am studying with a group of colleagues, including Ginevra Trinchieri and Roberto Rampazzo, the relation between X-ray and optical/UV properties for a sample of early type galaxies.

ULXs: This is my main interest in the last years; with Luca Zampieri we have tried to gather a small Italian team including students and Post-Docs to attack the issue both from the observational and theoretical point of view. The Ultraluminous X-ray sources, non-nuclear

sources in which the observed luminosity is in excess of the Eddington luminosity for a normal-size stellar Black Hole (BH), have been heralded as the yet unknown host of Intermediate Mass Black Holes, of a thousand to 10 thousand solar masses, the missing link between the 10-20 solar mass BHs in our Milky Way and the supermassive BHs at the core of galaxies. Consensus was reached that the most probable interpretation was a BH on the heavy side of the stellar mass distribution (i.e. 80-100 solar masses) with possibly a peculiar geometry or some other kind of super-Eddington accretion. More recent results showing that at least a few ULXs are powered by Neutron Star have shifted the attention to other emission mechanism. I have studied in depth the Cartwheel galaxy, one of the most prolific host of ULXs, which for many years has had the record luminosity for its N.10 source. I have derived the luminosity function in the Cartwheel and in the interacting spiral NGC 2276 and results confirm that ULXs are consistent with being the high luminosity end of High Mass X-ray binaries. I have studied a sample of Ring Galaxies which host a large number of ULXs and derived their X-ray Luminosity Function. I have also coordinated the efforts of a small group of international scientists to assess the requirement for ULXs in the upcoming SKA telescope. With a PhD student I am tackling the issue of variability both by looking in the available datasets and applying for new data. We are also devising strategies to identify possible NS candidates via a spectral energy plane or a variability plane. Multiwavelength data allow a precise determination of the physical conditions of the environment in which the generation of ULXs form, especially in the ring of Ring Galaxies. Using optical data, from MUSE and other ESO telescope we are also aiming at assessing the age of the population and their metallicity.

BIBLIOGRAPHY

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Papers in refereed journals

- (118) GASP XXXV: Characteristics of the diffuse ionised gas in gas-stripped galaxies Tomicic, Neven; Vulcani, Benedetta; Poggianti, Bianca M.; Werle, Ariel; Muller, Ancla; Mingozzi, Matilde; Gullieuszik, Marco; Wolter, Anna; Radovich, Mario; Moretti, Alessia; Franchetto, Andrea; Bellhouse, Callum; Fritz, Jacopo 2021, in press, arXiv:2108.12433
- (117) The rare X-ray flaring activity of the ultraluminous X-ray source NGC 4559 X7 Pintore, Fabio; Motta, S.; Pinto, C.; Bernardini, M. G.; Rodriguez-Castillo, G.; Salvaterra, R.; Israel, G. L.; Esposito, P.; Ambrosi, E.; Salvaggio, C.; Zampieri, L.; Wolter, A. 2021, MNRAS, 504, 551
- (116) GASP. XXXIII. The Ability of Spatially Resolved Data to Distinguish among the Different Physical Mechanisms Affecting Galaxies in Low-density Environments Vulcani, Benedetta; Poggianti, Bianca M.; Moretti, Alessia; Franchetto, Andrea; Bacchini, Cecilia; McGee, Sean; Jaff, Yara L.; Mingozzi, Matilde; Werle, Ariel; Tomii, Neven; Fritz, Jacopo; Bettoni, Daniela; Wolter, Anna; Gullieuszik, Marco 2021, ApJ, 914, 27
- (115) GASP XXXIV: Unfolding the Thermal Side of Ram Pressure Stripping in the Jellyfish Galaxy JO201 Campitiello, M. Giulia; Ignesti, Alessandro; Gitti, Myriam; Brighenti, Fabrizio; Radovich, Mario; Wolter, Anna; Tomii, Neven; Bellhouse, Callum; Poggianti, Bianca M.; Moretti, Alessia; Vulcani, Benedetta; Jaff, Yara L.; Paladino, Rosita; Miller, Ancla; Fritz, Jacopo; Loureno, Ana C. C.; Gullieuszik, Marco 2021, ApJ, 911, 144
- (114) Sensitivity of the Cherenkov Telescope Array for probing cosmology and fundamental physics with gamma-ray propagation Abdalla, H.; Abe, H.; Acero, F., ..., Wolter, A., ... 2021, JCAP, 02, 48
- (113) Metallicity and X-ray luminosity variations in NGC 922 Kouroumpatzakis, K.; Zezas, A.; Wolter, A.; Fruscione, A.; Anastasopoulou, K.; Prestwich, A. s 2021, MNRAS, 500, 962

- (112) GASP XXX. The Spatially Resolved SFR-Mass Relation in Stripping Galaxies in the Local Universe Vulcani, Benedetta; Poggianti, Bianca M.; Tonnesen, Stephanie; McGee, Sean L.; Moretti, Alessia; Fritz, Jacopo; Gullieuszik, Marco; Jaff, Yara L.; Franchetto, Andrea; Tomii, Neven; Mingozi, Matilde; Bettoni, Daniela; Wolter, Anna 2020, ApJ, 899, 98
- (111) GASP. XXI. Star Formation Rates in the Tails of Galaxies Undergoing Ram Pressure Stripping Gullieuszik, Marco; Poggianti, Bianca M.; McGee, Sean L.; Moretti, Alessia; Vulcani, Benedetta; Tonnesen, Stephanie; Roediger, Elke; Jaff, Yara L.; Fritz, Jacopo; Franchetto, Andrea; Omizzolo, Alessandro; Bettoni, Daniela; Radovich, Mario; Wolter, Anna 2020, ApJ, 899, 13
- (110) Discovery of a 2.8 s pulsar in a 2 d orbit High-Mass X-ray Binary powering the Ultraluminous X-ray source ULX-7 in M51 Rodriguez Castillo, G.A., Israel, G.L., Belfiore, A., Bernardini, F., Esposito, P., Pintore, F., De Luca, A., Papitto, A., Stella, L., Tiengo, A., Zampieri, L., Bachetti, M., Brightman, M., Casella, P., D'Agostino, D., Dall'Osso, S., Earnshaw, H.P., Frst, F., Haberl, F., Harrison, F.A., Mapelli, M., Marelli, M., Middleton, M., Pinto, C., Roberts, T.P., Salvaterra, R., Turolla, R., Walton, D.J., **Wolter, A.** 2020, ApJ, 895, 60
- (109) Te-REX: a sample of extragalactic TeV-emitting candidates Balmaverde, Barbara; Caccianiga, A.; Della Ceca, R.; Wolter, A.; Belfiore, A.; Ballo, L.; Berton, M.; Gioia, I.; Maccacaro, T.; Sbarufatti, B. 2020, MNRAS, 492, 3728
- (108) Diffuse X-ray emission around an ultraluminous X-ray pulsar Belfiore, Andrea; Esposito, Paolo; Pintore, Fabio; Novara, Giovanni; Salvaterra, Ruben; De Luca, Andrea; Tiengo, Andrea; Caraveo, Patrizia; Frst, Felix; Israel, Gian Luca; Magistrali, Danilo; Marelli, Martino; Mereghetti, Sandro; Papitto, Alessandro; Rodriguez Castillo, Guillermo A.; Salvaggio, Chiara; Stella, Luigi; Walton, Dominic J.; Wolter, Anna; Zampieri, Luca 2020, Nat. As. 4, 147
- (107) The Ultraluminous X-Ray Sources Population of the Galaxy NGC 7456 Pintore, F.; Marelli, M.; Salvaterra, R.; Israel, G. L.; Rodriguez Castillo, G. A.; Esposito, P.; Belfiore, A.; De Luca, A.; Wolter, A.; Mereghetti, S.; Stella, L.; Rigoselli, M.; Earnshaw, H. P.; Pinto, C.; Roberts, T. P.; Walton, D. J.; Bernardini, F.; Haberl, F.; Salvaggio, C.; Tiengo, A.; Zampieri, L.; Bachetti, M.; Brightman, M.; Casella, P.; D'Agostino, D.; Dall'Osso, S.; Frst, F.; Harrison, F. A.; Mapelli, M.; Papitto, A.; Middleton, M. 2020, ApJ, 890, 166
- (106) First detection of the Crab Nebula at TeV energies with a Cherenkov telescope in a dual-mirror Schwarzschild-Couder configuration: the ASTRI-Horn telescope Lombardi, S., Catalano, O., Scuderi, S., ... **Wolter, A.** 2020, A&A, 634, 22
- (105) GASP XXII. The Molecular Gas Content of the JW100 Jellyfish Galaxy at $z \approx 0.05$: Does Ram Pressure Promote Molecular Gas Formation? Moretti, Alessia; Paladino, Rosita; Poggianti, Bianca M.; Serra, Paolo; Roediger, Elke; Gullieuszik, Marco; Tomii, Neven; Radovich, Mario; Vulcani, Benedetta; Jaff, Yara L.; Fritz, Jacopo; Bettoni, Daniela; Ramatsoku, Mpati; Wolter, Anna 2020, ApJ, 889, 9

- (104) GASP XXIII: A Jellyfish Galaxy as an Astrophysical Laboratory of the Baryonic Cycle Poggianti, Bianca M.; Ignesti, Alessandro; Gitti, Myriam; Wolter, Anna; Brighenti, Fabrizio; Biviano, Andrea; George, Koshy; Vulcani, Benedetta; Gullieuszik, Marco; Moretti, Alessia; Paladino, Rosita; Bettoni, Daniela; Franchetto, Andrea; Jaff, Yara L.; Radovich, Mario; Roediger, Elke; Tomii, Neven; Tonnesen, Stephanie; Bellhouse, Callum; Fritz, Jacopo; Omizzolo, Alessandro 2019, ApJ, 887, 155
- (103) Investigating early-type galaxy evolution with a multi-wavelength approach. III. Insights from SPH simulations with chemo-photometric implementation Mazzei, P., Rampazzo, R., Marino, A., Trinchieri, G., Uslenghi, M., **Wolter, A.** 2019, ApJ, 885, 165
- (102) The two ultraluminous X-ray sources in the galaxy NGC 925 Pintore, F., Zampieri, L., Mereghetti, S., **Wolter, A.**, Rodriguez, G., Israel, G. L., Esposito, P., Paiano, S., Trinchieri, G., Ochner, P. 2018, MNRAS, 479, 4271
- (101) The X-Ray Luminosity Function of Ultra Luminous X-Ray Sources in Rings of Colliding Galaxies (**Wolter, A.**; Fruscione, A.; Mapelli, M.), 2018, ApJ, 863, 43
- (101) A new ultraluminous X-ray source in the galaxy NGC 5907 Pintore, F., Belfiore, A., Novara, G., Salvaterra, R., Marelli, M., De Luca, A., Rigoselli, M., Israel, G., Rodriguez, G., Mereghetti, S., **Wolter, A.**, Walton, D. J., Fuerst, F., Ambrosi, E., Zampieri, L., Tiengo, A., Salvaggio, C., 2018, MNRAS, 477, 90
- (100) A multi-wavelength study of the evolution of early-type galaxies in groups: the ultraviolet view Rampazzo, R., Mazzei, P., Marino, A., Bianchi, L., Plana, H., Trinchieri, G., Uslenghi, M., Wolter, A., 2018, Ap&SS, 363, 80
- (99) Investigating early-type galaxy evolution with a multiwavelength approach - II. Analysis of the far UV structure of 11 galaxies with SWIFT-UVOT (Rampazzo, R., Marino, A., Mazzei, P., Uslenghi, M., Trinchieri, G., and **Wolter, A.**), 2017, A&A, 602, 97
- (98) An accreting pulsar with extreme properties drives an ultraluminous x-ray source in NGC 5907 (Israel, G. L.; Belfiore, A.; Stella, L.; Esposito, P.; Casella, P.; De Luca, A.; Marelli, M.; Papitto, A.; Perri, M.; Puccetti, S.; Rodriguez Castillo, G. A.; Salvetti, D.; Tiengo, A.; Zampieri, L.; D'Agostino, D.; Greiner, J.; Haberl, F.; Novara, G.; Salvaterra, R.; Turolla, R.; Watson, M.; Wilms, J.; **Wolter, A.**), 2017, Science, 355, 817
- (97) Pulsator-like spectra from Ultraluminous X-ray sources and the search for more ultraluminous pulsars (Pintore, F., Zampieri, L., Stella, L., **Wolter, A.**, Mereghetti, S., Israel, G.), 2017, ApJ, 836 113
- (96) Investigating early-type galaxy evolution with a multiwavelength approach - I. X-ray properties of 12 galaxies observed with Swift and XMM-Newton (Trinchieri, G., Rampazzo, R., Mazzei, P., Marino, A., **Wolter, A.**) 2015, MNRAS, 449, 3021
- (95) Spectral variability in Swift and Chandra observations of the ultraluminous source NGC 55 ULX1 (Pintore, Fabio; Esposito, Paolo; Zampieri, Luca; Motta, Sara; **Wolter, Anna**), 2015, MNRAS, 448, 1153

- (94) NGC2276: a remarkable galaxy with a large number of ULXs (**Wolter, A.**; Esposito, P.; Mapelli, M.; Pizzolato, F.; Ripamonti, E.) 2015, MNRAS, 448, 781
- (93) Ultraluminous X-ray sources: a deeper insight into their spectral evolution (Pintore, Fabio; Zampieri, Luca; **Wolter, Anna**; Belloni, Tomaso) 2014, MNRAS, 439, 3461
- (92) X-ray variability and energy spectra from NGC 5408 X-1 with XMM-Newton (Caballero-García, M. D.; Belloni, T. M.; **Wolter, A.**) 2013, MNRAS, 435, 2665
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- (2c) EXOSAT Observations of BL Lac Objects (B. Garilli, D. Maccagni, Anna **Wolter**), 1987, Proceedings of the 3rd Cosmic Physics National Conference, (SIF), S. Vincent, 22-25 Sep 1986, Ed. C. Castagnoli, 7, 199.
- (1c) X-ray Bursting Activity in the BL Lac object PKS 2155-304 (D. Maccagni, L. Chiappetti, L. Maraschi, D. Molteni, M. Morini, E.G. Tanzi, A. Treves, Anna **Wolter**), 1986, Proceedings of the IAU Symposium 119 on “Quasars”, Bangalore, Dec. 2-6, 1985, 267.

Outreach (papers both in English and Italian)

- (25d) Destinazione futuro: e se domani...; 2 settembre 2021; (Anna **Wolter**) intervista per EduINAF; <https://edu.inaf.it/approfondimenti/scoperte/destinazione-futuro-piero-schiavo-campo/>
- (24d) Destinazione futuro: lunga vita e prosperità; 19 agosto 2021; (Anna **Wolter** con Adamantia Paizis) intervista per EduINAF; <https://edu.inaf.it/approfondimenti/scoperte/destinazione-futuro-star-trek-italian-club/>
- (23d) Per arrivare là dove nessuno è mai arrivato prima; 17 agosto 2021 (Anna **Wolter**) biografia per EduINAF; <https://edu.inaf.it/approfondimenti/personaggi/gene-roddenberry-star-trek/>
- (22d) Un pensatore creativo: Fred Hoyle; 10 agosto 2021; (Anna **Wolter**) biografia per EduINAF; <https://edu.inaf.it/approfondimenti/personaggi/fred-hoyle-pensatore-creativo/>
- (21d) Interstellar: quando la scienza va al cinema; 5 febbraio 2021; (Anna **Wolter**) recensione per EduINAF; <https://edu.inaf.it/approfondimenti/scoperte/interstellar-kip-thorne/>
- (20d) Gianni Rodari: missione compiuta! 31 gennaio 2021 - (Anna **Wolter**) con Adamantia Paizis, Sandro Bardelli e Elena Zucca EduINAF; <https://edu.inaf.it/news/premi-e-concorsi/gianni-rodari-le-opere/>
- (19d) Joan Feynman e le aurore polari; (Anna **Wolter**) 29 dicembre 2020; EduINAF <https://edu.inaf.it/rubriche/personaggi/joan-feynman-e-le-aurore-polari/>
- (18d) Fate largo ai sognatori!; 23 ottobre 2020 - Anna Wolter, con Adamantia Paizis, Sandro Bardelli e Elena Zucca EduINAF; <https://edu.inaf.it/news/premi-e-concorsi/fate-largo-ai-sognatori/>
- (17d) Observe the Sky and draw your emotions (Giacomini, Livia ; Cutispoto, Giuseppe ; Gargano, Mauro ; Wolter, Anna) 2020, 14th Europlanet Science Congress 2020, held virtually, 21 September 2020 - 9 October, 2020. Online at <https://www.epsc2020.eu/>, id. EPSC2020-915
- (16d) Alla scienza l'ultima parola? (Anna **Wolter**) "Il Gallo", Luglio-Agosto 2020; <http://www.ilgallo46.it/luglio/>
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- (15d) Osserva e disegna: I vincitori; 30 maggio 2020 raccolta disegni e vincitori EduINAF; <https://edu.inaf.it/news/premi-e-concorsi/disegna-cielo-2020-conclusione/>
- (14d) Grazie Universo!; 3 luglio 2019 MediaINAF; <https://www.media.inaf.it/2019/07/03/il-buio>
- (13d) Poche ore alleclissi, tutto è pronto a La Silla; 2 luglio 2019 MediaINAF; <https://www.media.inaf.it/2019/07/02/poche-ore-alleclissi-tutto-e-pronto-a-la-siila/>

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- (11d) Riccardo Giacconi e Milano; 29 gennaio 2019 EduINAF; <https://edu.inaf.it/riccardo-giacconi-e-milano/>
- (10d) Il mistero del mondo quantistico; 25 gennaio 2019 recensione per EduINAF; <https://edu.inaf.it/rubriche/libri/il-mistero-del-mondo-quantistico/>
- (9d) Un ricordo di Riccardo Giacconi (Anna **Wolter**) EduINAF, 21 dicembre 2018; <https://edu.inaf.it/rubriche/personaggi/un-ricordo-di-riccardo-giacconi/>
- (8d) Com'è lontana, Mondovì! (Anna **Wolter**); 2018, 17 gennaio EduINAF; <http://edu.inaf.it/index.php/come-lontana-mondovi/>
- (7d) Sulla Meritocrazia oggi in Italia (Anna **Wolter**); 2016, 8 agosto; Notam Milano, n. 486; http://www.notam.it/notam/wp-content/uploads/2016/08/Nota-m-486-08_08_16.pdf
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- (5d) Io e la relatività. Ovvero: io e l'amore della scienza (Anna **Wolter**), 2015, 20 novembre; <http://www.scienzainrete.it/contenuto/articolo/anna-wolter/io-e-relativita-ovvero-io-e-lamore-della-scienza/novembre-2015>
- (4d) Il tempo della luce (Anna **Wolter**), 2015, 18 novembre; http://www.intersezioni.eu/?objselected=913&scheda=view_articolo
- (3d) Dagli spettacoli rock ai sistemi planetari (Anna **Wolter**), 2013, 1 settembre; <http://www.scienzainrete.it/contenuto/articolo/anna-wolter/dagli-spettacoli-rock-ai-sistemi-planetari/settembre-2013>
- (2d) Un po' più poveri senza di lei (Anna **Wolter**); 2013, 15 luglio; Notam Milano, n. 420; http://www.notam.it/notam/wp-content/uploads/2014/10/Notam-420-15_07_13.pdf
- (1d) Aristarco: un nuovo telescopio per un vecchio enigma (Anna **Wolter**), 2013, 13 marzo; <http://www.scienzainrete.it/contenuto/articolo/anna-wolter/aristarco-nuovo-telescopio-vecchio-enigma/marzo-2013>

- (6e) **Sulle tracce di.. Rosalind Franklin** *autumn 2020* Scientific contribution to the creative lab coordinated by Maria Eugenia DAquino, President of PACTA dei Teatri, in collaboration with CPO - Consiglio per le Pari Opportunit'a di Regione Lombardia and INAF - Osservatorio Astronomico di Brera. In the STEMIntheCity 2020 project, four classes of different institute study the life of Rosalind Franklin, the chemist that discovered the DNA double helix structure but was not recognised in her short life. <https://www.steminthecity.eu/testimonianze/pacta-per-steminthecity-2020.kl> <https://www.youtube.com/watch?v=kJcIDv7fZro&feature=youtu.be> Scuole e link ai video: Liceo Linguistico Alessandro Greppi Monticello (LC) <https://www.steminthecity.eu/video-formativi/sulle-tracce-di-rosalind-franklin-4lc-iiss-alessandro-greppi.kl> Scuola Professionale d'Arte Muraria Srl Impresa Sociale Milano <https://www.steminthecity.eu/video-formativi/sulle-tracce-di-rosalind-franklin-scuola-professionale-d-arte-muraria.kl> Liceo Classico Berchet Milano <https://www.steminthecity.eu/video-formativi/sulle-tracce-di-rosalind-franklin-liceo-classico-berchet.kl> Liceo Enrico Fermi Cantù (CO) <https://www.steminthecity.eu/video-formativi/sulle-tracce-di-rosalind-franklin-3h-liceo-enrico-fermi.kl>

- (6e) **Da zero a infinito: equazioni, formule e incognite di una rappresentazione simbolica del cosmo**

25 ottobre - 4 novembre 2018 Genova - Festival della Scienza

A cura di D. Coero-Borga, S. Sandrelli, **A. Wolter**

Una raccolta di emozionanti scatti dell'universo conosciuto messi in relazione con la matematica che ne descrive la straordinaria bellezza. Una mostra fotografica che colpisce per il modo semplice e, allo stesso tempo, potente con cui avvolge e affascina lo spettatore. Una raccolta di emozionanti scatti dell'universo conosciuto e la matematica che ne descrive la straordinaria bellezza. Dalla celebre equazione di Einstein $E = mc^2$ a quelle di Maxwell, da Pitagora a Keplero, dalla gravitazione newtoniana alla distribuzione di Boltzmann. La matematica, proprio come l'astrofisica, ha due volti: se da un lato costituisce un insieme di conoscenze a s tanti, dall'altro la sola lingua con la quale possiamo descrivere l'oceano di stelle in cui siamo immersi. Una grande equazione capace di sorprendere. Non contiene null'altro che l'essenziale. Parla in modo semplice e allo stesso tempo potente. Una formula ci dice qualcosa che prima non sapevamo ma che, se abbiamo pazienza, finiremo per osservare. Come le stelle cadenti. Come le onde gravitazionali.

La mostra è stata ripetuta in altre occasioni, al Museo del Bali, a Roma, e recentemente a Faenza.

- (5e) **Il futuro è adesso - l'Italia e l'Extremely Large Telescope dell'ESO**

2 novembre 2017 Genova - Festival della Scienza

A cura di **A. Wolter**

Organizzo, in collaborazione con la direzione centrale dell'INAF, un incontro pubblico in cui il Direttore Generale dell'ESO e il Presidente dell'INAF si confrontano sui progressi tecnologici in cui coinvolto il nostro paese, 2 novembre 2017 Genova

- (4e) **Il cielo in una stanza**

29-30 settembre 2017 Milano

A cura di **A. Wolter**

Nell'ambito della manifestazione Meet me Tonight (aka La notte dei ricercatori). Nella mia qualità di referente italiana per la divulgazione dell'ESO (Osservatorio Europeo Australe) organizzo, su richiesta e in collaborazione con il progetto europeo Darklight, finanziato dall'European Research Council (ERC), e con INAF, la mostra Grandi telescopi, grande scienza. La mostra ci guida nel cuore dell'Universo e della sua straordinaria zoologia di forme e colori con gli occhi del VLT (Very Large Telescope), il telescopio all'avanguardia che ha portato a scoperte scientifiche straordinarie, come la gigantesca mappa dell'Universo creata e studiata dal progetto Darklight. Non manca uno sguardo al futuro, con immagini del progetto ELT (Extremely Large Telescope), l'enorme telescopio da 39 m di diametro in fase di costruzione da parte dell'ESO. All'interno della mostra invito il Responsabile di Progetto dell'ELT, Ing. Roberto Tamai, per una conferenza di approfondimento delle complessità tecnologiche legate alla costruzione del grande occhio del mondo rivolto verso il cielo

(3e) **Lontano lontano nel tempo - Un viaggio nell'Universo a cavallo della luce**

14 novembre - 19 novembre 2015 Milano

A cura di **A. Wolter** e A. Paizis

Riproponiamo all'Osservatorio di Brera, in occasione della settimana della luce 2016, la mostra tenuta al Museo di Storia Naturale nel 2015. Conferenze dedicate alle scuole accompagnano la mostra.

(2e) **Lontano lontano nel tempo - Un viaggio nell'Universo a cavallo della luce**

10 novembre - 9 dicembre 2015 Milano

A cura di **A. Wolter** e A. Paizis

Mostra che accosta reperti preziosi a immagini astronomiche relative allo stesso momento storico. Nell'ambito delle manifestazioni promosse in occasione dell'Anno Internazionale della Luce e delle Tecnologie basate sulla Luce, proclamato dall'Assemblea Generale delle Nazioni Unite. Al Museo Nazionale di Storia Naturale, con la collaborazione di INAF-Osservatorio Astronomico di Brera, INAF-Istituto di Astrofisica Spaziale e Fisica Cosmica di Milano e Civico Planetario "Ulrico Hoepli" di Milano. Ingresso incluso nel biglietto di visita al Museo. <http://www.comune.milano.it/dseserver/WebCity/Documenti.nsf/-d38e0f65f96d36fc0125690e00465e37/3c3aff62123a248bc1257ef2002c05be?OpenDocument>

(1e) **Sempre più lontano - Festeggiamo i 50 anni dell'ESO**

25 ottobre - 4 novembre 2012 Genova - Festival della Scienza

Mostra: Sempre più lontano **Conversazione:** Una notte a Paranal (con Elena Valenti, ESO) **Conferenza:** Lectio Magistralis *L'Europa alla scoperta dell'Universo - Cinquant'anni di astronomia europea* (con Catherine Cesarsky) e **Speed Geeking:** a contatto con il pubblico (con ricercatori e tecnici dell'industria per parlare dei telescopi dell'ESO).

A cura di **Anna Wolter**, referente italiano per il Network di Divulgazione Scientifica dell'ESO e INAF-Osservatorio Astronomico di Brera In collaborazione con Simona Cerrato - Sissa Medialab, INAF-Osservatorio Astronomico di Brera, A.D.S. International S.r.l., EIE Group, Heidenhain Italiana S.r.l., Microgate S.r.l., Parco Naturale Regionale dell'Antola, Nicolas Cretton - ESO, Paola Rebusco - ESO NB: Alla mostra sono legati i due eventi Speed geeking della scienza e della tecnologia del

cielo e Una notte a Paranal e la conferenza L'Europa alla scoperta dell'Universo.
<http://festival2012.festivalscienza.it/site/fscienza/matchevent.jsp%3Fid=2158.html>

Planetarium conferences (in Italian)

- (4p) **I primi 50 anni dei quasar**
- (3p) **I buchi neri sono tutti uguali? A caccia di buchi neri nelle galassie**
- (2p) **Un Universo pirotecnico: esplosioni nel cosmo**
- (1p) **La Radioastronomia: tutti i colori del buio**

Translations into Italian

- 2010-present About 400 press releases for ESO (<https://www.eso.org/public/italy/news/>)
- 2006 L'Atlante delle Costellazioni di Eckhard Slawick & Uwe Reichert Trad. di **A. Wolter** e C. Wolter, 42 campi celesti 143 fotografie, 2006 p. 208 [ISBN 978-8808-16994-5]
- 1986 Come usare il Symphony di E.M. Baras Trad. **A. Wolter** McGraw-Hill Libri Italia srl. Titolo originale "*The Sympony book*", 1986, p. 312 [ISBN 978-8838-60019-7]
- 1984 Progettazione di giochi d'avventura con lo ZX Spectrum di N. Williams Trad. **A. Wolter** e F. Toma McGraw-Hill Education Titolo originale "*Invent and Write Your Own Games Programs for the Zx Spectrum*", 1984, p. 216 [ISBN 978-8877-00007-1]

Chandra Outreach

- 2006 Chandra Photo Album of Cartwheel galaxy
<http://chandra.harvard.edu/photo/2006/cartwheel/>
- 2015 Chandra Press Release on NGC 2276 possible IMBH
http://chandra.harvard.edu/press/15_releases/press_022515.html
- 2018 Chandra Blog and Chandra Photo Album on AM0644-741
<http://chandra.si.edu/blog/node/689>
<http://chandra.harvard.edu/photo/2018/ring/>
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