

CURRICULUM VITAE

Piero Rosati

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Education

- 1992-1995 *Doctorate of Research in Astronomy*, University of Rome “La Sapienza”, Italy.
Visiting grad student at Johns Hopkins University (Baltimore). Thesis title:
X-ray selected samples of galaxy clusters: source detection algorithms, optical observations and cluster number counts (supervisors: R.Giacconi, C.Norman).
- 1982-1989 *Laurea of “Dottore in Fisica”* (equivalent to Bachelor + Master Degree in Physics), University of Rome “La Sapienza”, Italy
Thesis title: *Development of a Magneto–Optical Spectrograph for the measurement of solar velocity and magnetic fields* (supervisor: A.Cacciani)

Research Interests:

Observational Cosmology; X–ray and Optical Studies of Distant Galaxy Clusters; Galaxy Formation and Evolution; First galaxies; Gravitational Lensing and Dark Matter; High-energy astrophysics: cosmic X–ray Background/AGN evolution

Career

- Sep 2013 – present Full Professor in Astrophysics at University of Ferrara (Italy)
- Mar 2022 – present Visiting Scientist at JHU Physics and Astronomy Department
- May 99 – Sep 13 Staff Astronomer at the European Southern Observatory (ESO, Garching bei München) - Full Astronomer since July 2005
- Dec 11 – Sep 13: Instrument Scientist in the Instrument Division
- Jun 08 – Dec 10: Hubble Legacy Archive group lead in the Space Telescope European Coordinating Facility (ST-ECF)
- Nov 04 – May 08: Head of the Advanced Data Products Group in the VO System Department (Data Management&Operations Division)
- May 05 – Dec 05: Associate Astronomer (on-leave) at the Trieste Observatory (Italy)
- May 99 – May 03: Deputy of the VLT Programme Scientist
- Feb 99 – Apr 99: ESO Senior Fellow, ESO, Garching, Germany
- Feb 98 – Dec 02: Visiting Professor, Johns Hopkins University, Baltimore, USA
- Feb 97 – Jan 99: ESO Post Doctoral Fellow, ESO, Garching, Germany
- Jan 95 – Jan 97: Post Doctoral Fellow, Johns Hopkins University, Baltimore
- Sep 92 – Dec 94: Visiting Graduate Student, Johns Hopkins University, Baltimore
- Jan 92 – Dec 94: Research Doctorate Student, University of Rome “La Sapienza”, Italy

- Jan 91 – Dec 91: Research Assistant, University of Rome, Italy
- 1992: Research Fellowship “Angelo Della Riccia”, Space Telescope Science Institute, Baltimore, MD (USA)
- 1990: Research Fellowship “Angelo Della Riccia”, NASA Jet Propulsion Laboratory, Pasadena, CA (USA)

CV Abstract:

PR is primarily an observational astrophysicist working in the field of cosmology, with a broad and deep expertise in multi-wavelength surveys, as well as in imaging and spectroscopic studies in the optical-IR and X-ray bands of distant galaxy clusters, distant galaxies and Active-Galactic Nuclei. In his early carrier, primarily spent at Johns Hopkins University (Baltimore, USA), he constructed the then largest sample of distant X-ray selected galaxy clusters (the ROSAT Deep Cluster Survey, RDCS) and used these data to constrain cluster evolution and cosmological parameters. He had a co-leading role in the Chandra Deep Field South (CDF-S) project by planning the X-ray survey, carrying out a multi-wavelength program of source identification and publishing the first scientific results. He led the ESO-GOODS public survey in the context of the Great Observatories Origins Deep Survey (GOODS) project, designed to study galaxy formation and evolution over a wide range of cosmic lookback time. He led several studies of the most distant galaxy clusters – particularly with HST/ACS, Chandra and two VLT Large Programmes – investigating their galaxy populations and mass distributions with lensing and dynamical techniques. He was involved in the definition of the Euclid mission as a member of the ESA Science Study Team. He is currently engaged in a new study of the dark matter distribution in massive clusters and distant primordial galaxies exploiting strong gravitational lensing. As a staff astronomer at ESO, he was the deputy of the VLT Programme Scientist, carrying out the science verification of the first generation VLT instruments; he led the Advanced Data Products group, the Hubble Legacy Archive group in the Space Telescope European Coordinating Facility, and was Instrument Scientist of the VLT survey spectrographs. Since Sept 2013 is full professor in Astrophysics at University of Ferrara (Italy).

Publications (as of Apr 2024):

399 on refereed journal + 94 selected from non-refereed journals.
 Citations from ADS: 39,000 H-index= 106.
 4 publications in Nature, 3 in Nature Astronomy, 2 in Science

Invited Talks (as of Apr 2024, see attachment):

- 41 Invited and Review talks at International Conferences since 2001
- 25 Colloquia and Seminars in 15 scientific/academic institutes in EU and US since 1999

Teaching activity

• **Courses at University of Ferrara**

- 2018-present : “*Astrofisica*” for B.Sc. in Physics
- 2019-present : “*Astrofisica Sperimentale*” for B.Sc. in Physics
- 2014-2017 : “*Elementi di Astrofisica*” for B.Sc. in Physics
- 2014-present : “*Observational Cosmology*” for M.Sc. in Physics
- 2014-present : “*Astrophysical probes of dark matter*” for PhD in Physics
- 2013-2018 : “*Fisica I*” for B.Sc. in Chemistry

2013-2014 : “*Misure Astronomiche*” for B.Sc. in Physics

- **Supervision (co-supervision) of 15 (4) PhD Thesis** at ESO, MPE, University of Ferrara (2007-2021)
- **Invited Lectures:** 20 Lectures/Courses on Observational Cosmology and Extra-galactic Astronomy in 14 International Schools in the last 20 years (see attachment)
- Lecturer at the IRAP (International Relativistic Astrophysics Program) PhD Erasmus school
- **Outreach activity:** > 10 public seminars in Italy since 2013

Recent committees, boards, commissions of trust

- Member of the “Athena Independent Science Review” ESA Panel (2021-22)
- Member of AXIS (Advanced X-ray Imaging Satellite) mission study team
- Coordinatore Unico del Corso di Studi in Fisica (University of Ferrara) (10/2016 - 6/2017)
- Member of PhD Board (Collegio di Dottorato), University of Ferrara (since 2013)
- Member of Scientific Organizing Committees of 28 international meetings (1999-2023), Chair or co-Chair of 12 of those
- Time allocation committees of NASA Hubble Space Telescope, NASA Chandra X-ray telescope, ESA Herschel and several major ground-based telescopes
- Referee for all major astrophysical journals, ERC Advanced/Starting grants and other national funding agencies in Europe, US and Chile
- ESA mission THESEUS: Core Team, coordinator of WG “Synergies with other facilities” (2018-2021)
- Member of VLT/MAVIS (MCAO Assisted Visible Imager and Spectrograph) Science Team
- Co-founder and Science Board Member of the Sexten Center for Astrophysics (BZ, Italy)
- Adjunct Professor of the Faculty of ICRANet (International Center for Relativistic Astrophysics Network) (2010-)
- Euclid Cluster Science Working Group member (External data WP coordinator) (2013-20)
- Junior PI in the Excellence Cluster Universe - Area E (Technische Universität München, Garching) (2006-2013)
- EUCLID (ESA Dark Energy Mission) Science Study Team member (2008-2009) - Co-chair of the Cosmology and Simulations Working Groups (2009-2011)
- Member of the E-ELT (European Extremely Large Telescope) Science Working Group (2006-2012)
- Hubble Legacy Archive Board member (2007-2011)
- HST/ACS (Advanced Camera for Surveys) Science Team member (1999-2008)
- Member of the ESO Survey Team (2006-2008)
- Chair of the VLT/Sinfoni Instrument Science Team (2000-2004)
- Topical Editor of *il Nuovo Cimento B* - Area: Astrophysics (2009-2010)

Fellowships, Grants & Awards

————— Awardee of Visiting Programs —————

- Visitor Scientist at the Munich Institute for Astro and Particle Physics (MIAPP), Garching b. München, Jul 2023
- Stephen Murray Distinguished Visitor Program of the High Energy Division at the *Harvard-Smithsonian Astrophysical Observatory*, Cambridge, MA (USA), Sep 2017
- Visitor Scientist at the “Excellence Cluster Munich”, Garching b. München, Jul 2016
- Visitor Scientist at the “Excellence Cluster Munich”, Sternwarte München, Jun-Jul 2015
- Visitor Scientist at the *Kavli Institute of Theoretical Physics*, Santa Barbara (USA), Mar 2011
- Visitor Scientist at the *Kavli Institute of Theoretical Physics*, Santa Barbara (USA), Nov 2004
- Visiting Professor at *Johns Hopkins University*, Baltimore, USA (1998-2002)

————— Grants since at University of Ferrara (9/2013) —————

- Co-I of National grant PRIN-MIUR2020 SKSTHZ (2021– on going) (458 KEur), coordinator of University of Ferrara node – “*GRAAL: GRAVitational lensing in galaxy clusters next-generation proposAL*”
- PI of National grant PRIN-MIUR2017 WSCC32 (2019– on going) (620 KEur) – “*ZOOMING: Zoom in Observations Of Massive clusters and INFant Galaxies*”
- European Horizon 2020 project *AHEAD-2020 (Integrated Activities in the High Energy Astrophysics Domain)*, (4/2020– on going) Coordinator of University of Ferrara node (153 KEur)
- PI of ASI program “Analisi dati, Teoria e Simulazioni” (ASI-INAF n. 2017-14-H.0) (15 KEur)
- PRIN-INAF (2014–2016): “Glittering kaleidoscopes in the sky: the multifaceted nature and role of Galaxy Clusters”, Coordinator of University of Ferrara node (44 KEur)
- European Horizon 2020 project *AHEAD (Integrated Activities in the High Energy Astrophysics Domain)*, (9/2015–2/2019) Coordinator of University of Ferrara node (190 KEur)
- PI of ASI Contract (2015-2017), “*Upgrading Facility LARIX*” (110 KEur)
- Erasmus Mundus Joint Doctorates (EJMD) program, IRAP (International Relativistic Astrophysics) Ph.D. (18 KEur) (2014-2017)
- Recipient of a postdoctoral fellowship funded by CAPES (Brazil)-ICRANet program (Dr. G.B. Caminha, 2014–15)

————— Grants before 2013 —————

- Research Grants by DFG (Deutsche Forschungsgemeinschaft) Cluster of Excellence Origin and Structure of the Universe (Munich) in 2008-2012 (total 20,000 Euros)
- Junior PI in the Excellence Cluster Universe - Area E (Munich University, 2008-2012)
- 12 ESO Director General Discretionary Fund grants (1999-2012)
- ASI/INAF grant 2005, Settore Astrofisica delle Alte Energie, *Clusters of Galaxies in X-rays*, PI at Trieste Observatory (27,000 Euros)
- PI of four NASA Grants associated with 990 ksec of Chandra GO time awarded in AO1,AO2 and AO4 (2000-2002) for follow-up studies of distant galaxy clusters
- NASA Grant associated with 22 orbits of Cycle 7 HST-WFPC2 awarded in Cycle 7 (1997) (Prop.#7374, \$83,517); PI on: “*Probing low density cluster environments at moderate-to-high redshifts*”
- NASA Astrophysics Data Program grant (NAG 5-3537 \$61,742), 1996; PI on: “*Probing the X-ray and Optical Evolution of Clusters of Galaxies*”
- Research Doctorate Fellowship (ranked 1st) – University of Rome, Italy, 1992–1994
- Research National Council (CNR) Fellowship (ranked 1st), Italy, 1992
- External Research Fellowship “Angelo della Riccia”, Italy, 1991
Host institute: Space Telescope Science Institute (Baltimore, MD, USA)
- External Research Fellowship “Angelo della Riccia”, Italy, 1989
Host institute: Jet Propulsion Laboratory (Pasadena, CA, USA)

————— Observing Programs —————

- PI of two ESO Large Programmes (since 2001)
- PI of > 20 observing programs with ground-based telescopes (at NOAO and ESO, since 1996)
- ESO Project Scientist of the Great Observatory Origin Deep Survey (2003-2009)
- Co-PI and co-founder of the Chandra Deep Field Survey (2000-2010)

INVITED TALKS and REVIEWS

1. “Zooming into primordial galaxies and star-forming complexes with JWST”, Invited Review presented at “Congresso Nazionale Società Italiana di Fisica (SIF)”, Salerno (Italy), Sep 14, 2023
2. “Advances in Cluster Strong Lensing”, Invited Review presented at “IAUS 381: Strong Gravitational Lensing in the era of big data”, Otranto (Italy), Jun 19-23, 2023
3. “ESO Surveys of distant galaxies in synergy with space observatories”
Invited Talk presented at “Celebrating Catherine Cesarsky 50 years of astronomy”, on-line symposium, Jun 14-15, 2021
4. “Cosmography and tests of the Λ CDM paradigm with high-precision strong lensing modelling of galaxy clusters”
Invited Talk presented at “The Fourth Zeldovich virtual meeting - An international conference in honor of Ya. B. Zeldovich”, Sep 7-11, 2020
5. “Zooming into early sites of star-forming (and AGN) activity with massive lensing clusters”
Invited Talk presented at “The slippery slope of multimessenger cosmological black holes data”, Sesto (BZ), 10-14 Feb, 2020
6. “(Inner) Mass Reconstruction of Galaxy Clusters: recent observational progress and tests of Λ CDM paradigm”
Invited Talk presented at “Matera Oscura”, Matera, Italy, Sep 2-6, 2019
7. “From distant galaxy clusters to the Chandra Deep Field South, from JHU to ESO”
Invited Talk presented at Memorial Symposium to honour Riccardo Giacconi Washington, DC, May 29-30, 2019
8. “High-precision mass distribution of galaxy clusters from lensing and dynamics”
Colloquium presented at the Kapteyn Institute, Groningen (NL), Jan 10, 2019
9. “Towards high-precision cluster lensing models: illuminating dark matter and dark ages”
Invited Talk presented at “Shedding Light on the Dark Universe with Extremely Large Telescopes”, ICTP, Trieste (Italy), Jul 2-6, 2018
10. “Exploring dark matter and primordial star formation with massive galaxy clusters”
Stephen Murray Lecture at the Harvard-Smithsonian Astrophysical Observatory, Cambridge, MASS (USA), Sep 13, 2017
11. “Towards high-precision strong-lensing modelling”
Lunch talk at Harvard Institute of Theory and Computation, Cambridge, MASS (USA), Sep 14, 2017
12. “Deep spectroscopy of cluster cores: exploring high-precision lens models to study primordial star formation”
Invited Talk presented at “Strong gravitational lensing by galaxies and clusters”, Cogne, Aosta (Italy), Jun 26-30, 2017
13. “Exploring dark matter and primordial star formation with massive galaxy clusters”
Padova Astronomical Observatory Seminar presented in Padova (Italy), Mar 11, 2017
14. “Illuminating dark matter and dark ages with massive lensing clusters”
Invited Talk presented at “Bright&Dark Universe”, Naples (Italy), 29 Jan-2 Feb, 2017
15. “Illuminating dark matter and dark ages with massive lensing clusters”
Special Seminar presented at the Kapteyn Institute, Groningen (NL), Oct 20, 2016
16. “Illuminating dark matter and dark ages with massive clusters”
ETH Seminar presented at the Institute for Astronomy, ETH Zurich (CH) Oct 11, 2016
17. “Probing dark and luminous matter distribution in clusters with high-precision lensing and kinematics data”
Invited Talk presented at “SISGRAV 2016”, Cefalù (Italy), Sep 12-18, 2016
18. “Mass distribution of CLASH-VLT clusters with high-quality lensing and kinematic data”
Contributed Talk presented at “Celebrating a Century of Gravitational Lensing”, Leiden (NL), July 11-15, 2016

19. “CLASH-VLT: Illuminating Dark Matter and Dark Ages with Massive Lensing Clusters”
Invited Talk presented at “ESO Rainbows in the Southern Sky”, Garching b. München (Germany), Oct 5-8, 2015
20. “Using massive clusters to probe the cosmological paradigm, structure formation and primordial galaxies”
 - Arcetri Seminar presented in Arcetri /CNR (Italy), Jun 19, 2014
 - IASF Seminar presented in Bologna/CNR (Italy), Mar 12, 2014
 - Milano Astron. Observatory Seminar presented in Milano (Italy), Apr 12, 2014
 - Trieste Astron. Observatory Seminar presented in Trieste (Italy), Feb 12, 2014
 - OABO/Phys.Astr.Dept. Seminar presented in Bologna (Italy), Nov 14, 2013
21. “Using massive clusters to probe structure formation and primordial galaxies”
Vienna Observatory Seminar presented in Vienna (Austria), Jun 4, 2013
22. “Using massive clusters to probe structure formation and primordial galaxies: the CLASH project”
USM Colloquium presented Munich Sternwart (Germany), Jun 26, 2013
23. “Using massive clusters to probe structure formation and primordial galaxies: the CLASH project”
ESO-MP Joint Colloquium presented at ESO, Garching (Germany), Jan 7, 2013
24. “First Results from CLASH - Cluster Lensing And Supernova survey with Hubble”
Invited Talk presented at “Galaxy Cluster Cosmology”, Ringberg (Germany), Nov 19-23, 2012
25. “Present and Future Surveys of Galaxy Clusters”
Invited Review presented at “X-ray Astronomy: Towards the Next 50 years”, Milano (Italy), Oct 1-6, 2012
26. “Probing Structure Formation and Cosmology with Galaxy Clusters”
Invited Talk presented at “Annual Danish Astrophysics Meeting 2012”, Island of Hven, May 30-31, 2012
27. “Testing the Λ CDM scenario with galaxy clusters across cosmic time”
JHU Colloquium presented at Johns Hopkins University, Baltimore (MD), May 10, 2012
28. “Testing the Λ CDM Scenario and the Nature of the Dark Matter with the Mass Distribution of Massive X-ray Clusters”
Invited Talk presented at “Second Ferrara Workshop on X-ray Astrophysics up to 511 keV”, Ferrara, (Italy), Sept 14-16, 2011
29. “Cluster Surveys and Evolution”
Invited Review presented at “Very Wide Field Surveys in the Light of Astro2010”, STScI, Baltimore, June 13-16, 2011
30. “Gravitational Lensing as a Tool to Probe the First Generation of Stars”
Invited Talk presented at “Galaxies, Near and Far: conference in honour of Bob Fosbury”, Villa Aureli, PG (Italy), May 23-25, 2011
31. “Testing the Λ CDM Paradigm with the Mass Distribution and Abundance of Massive Clusters out to $z = 1.4$ ”
Heidelberg Colloquium presented at University of Heidelberg, Apr 26, 2011
32. “Testing the Λ CDM Paradigm with the Mass Distribution of Massive Clusters out to $z = 1.4$ ”
Invited Talk presented at “Astrophysics and Cosmology with Galaxy Clusters”, KITP, Santa Barbara, Mar 14-18, 2011
33. “The Baryonic and Dark Matter Content of the Most Distant Galaxy Clusters”, Jul 2010,
Invited talk presented at the “Galaxy clusters: observations, physics and cosmology”, Garching bei München
34. “Structure Formation IXO synergies with the E-ELT and Euclid”, May 2010,
Invited talk presented at the “IXO Science Meeting”, Paris
35. “The Baryonic and Dark Matter content of Galaxy Clusters Across Cosmic Time”, May 2010,
Invited talk presented at the “Società Astronomica Italiana” meeting, Naples
36. “Resolving the Cosmic X-ray Background and Understanding Structure Formation and Evolution with a new era of X-ray Surveys”, Jul 2009,
Plenary talk presented at the “12th Marcel Grossmann Meeting”, Paris

37. “The most distant clusters: baryons and dark matter”, May 2009,
Invited talk presented at the “CosmoCluster” Workshop, Marseille, France
38. “Formation of early-type galaxies across time and environment”, Apr 2009,
Invited talk presented at “Galaxy properties across cosmic times”, Roma, Accademia dei Lincei
39. “Formation Histories of Galaxies in the Most Distant Clusters and Field”, Jan 2008
Invited talk presented at “Science with the new Hubble Space Telescope, after Servicing Mission 4”, Bologna, Italy
40. “Structure Formation and Cosmology with X-ray Clusters”, Feb 2007,
Colloquium presented at IPP, Garching bei München
41. “Structure Formation and Cosmology with the Most Distant Clusters”, Feb 2007,
Grand Seminar presented at Saclay, Paris
42. “Clusters and σ_8 ”, Jun 2006,
Invited Talk presented at WMAP3 Workshop, MPA Garching
43. “The Most Distant Galaxy Clusters”, Jan 2006,
Invited Seminar presented at ETH, Zurich
44. “Galaxy Populations in the Most Distant Galaxy Clusters”, Oct 2005,
presented at Ringberg workshop on “Distant clusters of galaxies”, Ringberg Castle (Germany)
45. “Formation and Evolution of Galaxy Clusters”, Nov 2004,
Invited Review presented at KITP, Santa Barbara
46. “Hot and Cold Baryons in Distant Clusters”, Oct 2004,
Invited Review presented at “Baryons in Dark Matter Halos”, Novigrad, Croatia
47. “X-ray Clusters at high z ”, Jan 2003,
Invited Review presented at “Carnegie Observatories Centennial Symposium III - Clusters of Galaxies: Probes of cosmological structure and galaxy evolution”, Pasadena, USA
48. “Chandra and XMM Observations of the Most Distant Clusters”, May 2002,
Invited Review presented at the Workshop on “Cluster Evolution”, Copenhagen, Denmark
49. “Cluster Cosmology”, Sept 2001,
Invited Review presented at “A New Era in Cosmology”, Durham, UK
50. “Determining Ω_M with Distant Cluster Surveys”, April 2001,
Invited Review presented at “The Dark Universe: Matter, Energy and Gravity”, STScI Symposium, Baltimore, MD
51. “Early-type Galaxy Populations in $z > 1$ Clusters”, Oct 2000,
Invited talk presented at “Deep Fields”, ESO Symposium (Garching, Germany)
52. “The Most Distant X-ray Clusters”, Aug 2000,
Invited Review presented at “X-ray Astronomy 2000”, Mondello (Italy)
53. “High Redshift X-ray Clusters”, Sept 1999,
Invited Review presented at “Large Scale Structure in the X-ray Universe”, (Santorini, Greece)
54. ‘Deep surveys with AXAF and the VLT’, Feb 1999,
Invited Review presented at “X-ray surveys and the history of accretion in the Universe”, (Rome)
55. ‘X-ray Surveys of Distant Galaxy Clusters’, May 1998,
Invited Review presented at the 14th IAP Conference: “Wide Field Surveys in Cosmology”, (Paris)
56. “On the Evolution of Galaxy Clusters”, May 1997,
Colloquium presented at “Scuola Normale di Pisa” (Pisa, Italy)
57. “Evolution of the Cluster Abundance out to $z \sim 1$ ”, Dec 1997,
Invited Review presented at “Evolution of Galaxy Clusters” (Viña del Mar, Chile)
58. “Cosmological implications of the RDCS”, Oct 1997,
presented at “Clusters as Cosmological Probes”, Ringberg Castle (Germany)
59. “Distant X-ray Selected Galaxy Clusters”, Oct 1997,
Invited talk presented at the Workshop in honour of the 65th birthday of Riccardo Giacconi (Rome, Vatican Observatory)
60. ‘The Abundance of X-ray Clusters out to $z \simeq 0.8$ ’, Sept. 1997,
presented at the “Large Scale Structure: Tracks and Traces”, (Potsdam, Germany)

Invited Lectures

- Apr 2020 Lectures at Scuola Normale Superiore (Pisa) PhD program, “Cosmological surveys with gravitational lensing”, Pisa, Apr 20-21, 2020
- Jun 2018 Lecture at Summer School at University of Milano, “Hands-on multi-probe mass measurements in galaxy clusters”, Ferrara, Jun 18-21, 2018
- Sep 2016 Lecture at PhD School in Astrophysics at University of Ferrara, “Astrophysical probes of Dark Matter”, Ferrara, Sep 5-9, 2017
- Sep 2015 Lecture at PhD School in Astrophysics at University of Ferrara, “Astrophysical investigations of Dark Matter”, Ferrara, Sep 7-11, 2015
- May 2015 Lecture at the Niccolò Cabeo PhD School, “Illuminating Dark Matter and Dark Ages with Massive Lensing Clusters”, IUSS (Istituto Universitario di Studi Superiori), Ferrara, May 27, 2015
- Dec 2014 International School of Astrophysics “Francesco Lucchin” (co-Chair) “Using galaxy clusters to probe dark matter and primordial galaxies”, Teramo, Italy (Dec 9–13, 2014)
- Sep 2014 Lectures at University of Nice for the International Relativistic Astrophysics Ph. D. (IRAP) “Illuminating dark matter and the dark ages with massive galaxy clusters”, Nice, France (Sep 17, 2014)
- May 2014 Lecture at the Niccolò Cabeo PhD School, “Using massive clusters to test the cosmological paradigm and unveil the first light in the Universe”, IUSS (Istituto Universitario di Studi Superiori), Ferrara, May 23, 2014
- Feb 2014 Lectures at University of Nice for the International Relativistic Astrophysics Ph. D. (IRAP) “Probing the nature of dark matter with galaxy clusters”, Nice, France (Feb 25, 2014)
- Nov 2012 Series of Lectures at XVI IAG/USP Advanced School on *Astrophysics Radio-astronomy, Galaxies and Clusters at high-z*: “Structure Formation and Cosmology with High-z Clusters”, Itatiba/SP, Brazil (Nov 4-9, 2012)
- Sep 2010 Series of Lectures at University of Nice for the International Relativistic Astrophysics Ph. D. (IRAP) “Structure Formation and Cosmology with Galaxy Clusters”, Nice, France (Sep 28-30, 2010)
- Feb 2010 Series of Lectures at University of Nice for the International Relativistic Astrophysics Ph. D. (IRAP) “Baryons and Dark Matter in Galaxy Clusters”, Nice, France (Feb 15-17, 2010)
- Jul 2008 Series of Lectures at the E.Fermi School “Astrophysics of Galaxy Clusters”, Varenna, Italy (July 15-25, 2008)
- Oct 2006 Series of Lectures at “International School Baryons and Dark Matter” on “Observational Properties of Galaxy Clusters” (SISSA, Trieste, Italy)
- Sep 2005 Series of Lectures at the “Novi-cosmo Summer School” on “Formation and Evolution of Galaxy Clusters”, Novigrad, Croatia (Sep 5-17, 2005)
- May 2005 Series of Lectures at “Chinese Summer School Series in Extragalactic Astronomy” Second School—Galaxy Clusters, Tianjin, China (May 15-24, 2005)
- May 2004 Series of Lectures at “Scuola Nazionale di Astrofisica” on “Observational Aspects of Gravitational Lensing” (Bertinoro, Italy)
- Dec 2003 Series of Lectures on “Clusters and Cosmology” at Scuola Normale (Pisa)

- Mar 2000 Series of Lectures at the International Como School on “Relativistic Cosmology: Theory and Observations” on “Observational Cosmology” (Como, Italy).
- Sep 1999 Series of Lectures at the school “Nordic-Baltic Research Course in Applied Astrophysical Photometry” (Moletai Observatory, Lithuania) on “Observational cosmology projects with the VLT”
- 1995-1997 Taught occasional graduate-level lectures at Johns Hopkins University (topics: Clusters in X-ray, Gravitational Lensing)

PUBLICATIONS

Refereed

405. L. Bazzanini et al. (12 coauthors including **P. Rosati**) 2024
Long gamma-ray burst light curves as the result of a common stochastic pulse-avalanche process, arXiv:2403.18754, submitted to A&A
404. M. Castellano et al. (31 coauthors including **P. Rosati**) 2024
JWST NIRSpec Spectroscopy of the Remarkable Bright Galaxy GHZ2/GLASS-z12 at Redshift 12.34, arXiv:2403.10238, submitted to ApJ
403. G. Roberts-Borsani et al. (9 coauthors including **P. Rosati**) 2024
Between the Extremes: A JWST Spectroscopic Benchmark for High Redshift Galaxies Using 500 Confirmed Sources at $z \geq 5$, arXiv:2403.07103, submitted to ApJ
402. V. Mainieri et al. (217 coauthors including **P. Rosati**) 2024
The Wide-field Spectroscopic Telescope (WST) Science White Paper, arXiv:2403.05398, Instrumentation and Methods for Astrophysics
401. T. Morishita et al. (13 coauthors including **P. Rosati**) 2024
Diverse Oxygen Abundance in Early Galaxies Unveiled by Auroral Line Analysis with JWST, arXiv:2402.14084, submitted to ApJ
400. M. Scalco et al. (11 coauthors including **P. Rosati**) 2024
The HST Large Programme on NGC 6752 – V. Differences in Luminosity and Mass Functions among Multiple Stellar Populations, arXiv:2403.03262, AN, in press
399. Grillo, C., Pagano, L., **Rosati, P.**, S.H Suyu et al. 2024
Cosmography with supernova Refsdal through time-delay cluster lensing: Independent measurements of the Hubble constant and geometry of the Universe, A&A, 684, L23
398. D. Abriola et al. (7 coauthors including **P. Rosati**) 2024
An improved Magellan weak lensing analysis of the galaxy cluster Abell 2744, A&A, 684, A193
397. P. Bergamini et al. (12 coauthors including **P. Rosati**) 2024
Augmenting the power of time-delay cosmography in lens galaxy clusters by probing their member galaxies II. Cosmic chronometers, A&A, 682, L2
396. M. Lepore et al. (18 coauthors including **P. Rosati**) 2024
Feeding and feedback processes in the Spiderweb proto-intracluster medium, A&A, 682, A186
395. L. Leuzzi et al. (218 coauthors including **P. Rosati**) 2024
Euclid preparation. XXXIII. Characterization of convolutional neural networks for the identification of galaxy-galaxy strong-lensing events, A&A, 681, A68
394. L. Ferro et al. (12 coauthors including **P. Rosati**) 2024
Recent developments in Laue lens manufacturing and their impact on imaging performance, JATIS, 10, 014002
393. A. Acebron et al. (12 coauthors including **P. Rosati**) 2023
Augmenting the power of time-delay cosmography in lens galaxy clusters by probing their member galaxies I. Type Ia supernovae, A&A, 680, L9
392. A. Bolamperti et al. (14 coauthors including **P. Rosati**) 2023
UV-continuum β slopes of individual $z = 2 - 6$ clumps and their evolution, MNRAS, 526, 5263
391. M. Stiavelli et al. (8 coauthors including **P. Rosati**) 2023
The puzzling properties of the MACS1149-JD1 galaxy at $z = 9.11$, ApL, 957, L18
390. E. Vanzella et al. (34 coauthors including **P. Rosati**) 2023
An extremely metal poor star complex in the reionization era: Approaching Population III stars with JWST, A&A, 678, A173
389. M. Meneghetti et al. (21 coauthors including **P. Rosati**) 2023
A persistent excess of galaxy-galaxy strong lensing observed in galaxy clusters, A&A, 678, L2
388. A. Biviano et al. (10 coauthors including **P. Rosati**) 2023
The puzzling properties of the MACS1149-JD1 galaxy at $z = 9.11$, ApJ, 958, 148
387. Caminha, G.B., Grillo, C., **Rosati, P.**, Liu, A. et al. 2023
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