

UNIVERSITÀ DEGLI STUDI DI MILANO

Procedura di valutazione per la chiamata a professore di I fascia da ricoprire ai sensi dell'art. 24, comma 6, della Legge n. 240/2010 per il settore concorsuale 02/C1, (settore scientifico-disciplinare FIS/05) presso il Dipartimento di Fisica "Aldo Pontremoli", Codice concorso 4307

## Claudio Grillo

### CURRICULUM VITAE

#### INFORMAZIONI PERSONALI (NON INSERIRE INDIRIZZO PRIVATO E TELEFONO FISSO O CELLULARE)

COGNOME	GRILLO
NOME	CLAUDIO
DATA DI NASCITA	6 NOVEMBRE 1980

#### PERSONAL INFORMATION

Claudio Grillo, born in Legnano, Italy, on the 6<sup>th</sup> of November 1980, Italian  
ORCID 0000-0002-5926-7143, Research ID E-6223-2015

##### • EDUCATION

- 2008 PhD in Physics, Astrophysics, and Applied Physics from the University of Milan.  
*Elliptical Galaxies as Strong Gravitational Lenses* (advisers G. Bertin and M. Lombardi).
- 2004 Degree in Physics from the University of Milan (marks: 110/110 *cum laude*).  
*Gravitational Lensing in Clusters of Galaxies* (advisers G. Bertin and M. Lombardi).

##### • CURRENT POSITIONS

- 2019 – Associate Professor  
Dipartimento di Fisica – Università degli Studi di Milano  
via Celoria 16 – I-20133 Milano, Italy.  
Email: claudio.grillo@unimi.it
- 2016 – (2021) Affiliated Associate Professor in Cosmology  
Niels Bohr Institute (NBI), University of Copenhagen, Denmark.

##### • PREVIOUS POSITIONS

- 2016 – 2019 Assistant Professor (three-year tenure track) – Programme "Rita Levi Montalcini"  
Dipartimento di Fisica, Università degli Studi di Milano, Italy.
- 2015 – 2016 Associate Professor at the Centre of Excellence "Dark Cosmology Centre", Niels Bohr Institute, University of Copenhagen, Denmark.
- 2012 – 2015 Research Fellow at the Centre of Excellence "Dark Cosmology Centre", Niels Bohr Institute, University of Copenhagen, Denmark.
- 2010 – 2012 Research Fellow at the Cluster of Excellence for Fundamental Physics "Origin and Structure of the Universe", Garching, Germany.
- 2008 – 2010 Post-doc at the Max-Planck Institut fuer extraterrestrische Physik, Garching, Germany.

##### • FELLOWSHIPS, AWARDS & GRANTS

- 2019 – (2022) PRIN 2017 MIUR (4 nodes involved: leader of one of them, at the University of Milan)  
602 K€ (total): funding for four two-year post-doc salaries (one already selected at the Physics Department, University of Milan) plus research grant.
- 2019 – (2021) Main-stream Programmes at INAF (CoI of two programmes)  
64 K€ (total): funding for research activities and equipment.
- 2017 – (2026) Habilitations to Associate and Full Professor positions in Astronomy and Astrophysics.

- 2016 – 2019 Programme for Young Researchers “Rita Levi Montalcini” (>110 applicants) (PI)  
209 K€: funding for own salary plus research grant at the Physics Department, University of Milan, Italy.
- 2015 – 2018 VILLUM FONDEN Young Investigator Programme (>250 applicants) (PI)  
535 K€: funding for own and a two-year post-doc salaries plus research funding at the Centre of Excellence “Dark Cosmology Centre”, NBI, Copenhagen, Denmark.
- 2012 – 2015 Research Fellowship (3 years) (>200 applicants), Centre of Excellence “Dark Cosmology Centre”, NBI, Copenhagen, Denmark.
- 2010 – 2012 Research Fellowship (2 years) (>40 applicants), Cluster of Excellence for Fundamental Physics “Origin and Structure of the Universe”, Garching, Germany.
- 2006 – 2008 Research Studentship (1.5 years), European Southern Observatory, Garching, Germany.

#### • TEACHING ACTIVITIES

- 2020 – Lecturer – *Thermodynamics* (BSc course), University of Milan, Italy.
- 2018 – Lecturer – *Astronomy laboratory* (BSc course), University of Milan, Italy.
- 2017 – Lecturer – *Advanced topics in astrophysics and plasma physics - Gravitational lensing* (PhD course) and *General Physics (classical mechanics and electromagnetism)* (BSc course), University of Milan, Italy.
- 2015 Lecturer – *Classic astrophysical papers* (MSc and PhD course), University of Copenhagen, Denmark.
- 2012 – 2015 Invited Lecturer – *Cosmology* (BSc course) on “Gravitational lensing and dark matter”, University of Copenhagen, Denmark.
- 2012 English Teacher to Adults (level B1), Muenchner Volkshochschule, Munich.
- 2011 Lecturer – *Hands-on Strong Gravitational Lensing School* (PhD School) on “Strong lensing theory”, Cluster of Excellence “Origin and Structure of the Universe”, Garching, Germany.
- 2010 Invited Lecturer – PhD School of Astrophysics “Francesco Lucchin” on “Dark matter in early-type galaxies”, Madonna di Campiglio, Italy.
- 2005 – 2006 Teaching Assistant – *General Physics (classical mechanics and electromagnetism)* (MSc course), University of Milan, Italy.

#### • SUPERVISION OF GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS

- 2018 – Main supervisor of M. Della Torre (MSc student), C. De Paoli (MSc student, ongoing), G. Granata (MSc student, ongoing), A. Bolamperti (BSc student), M. Robbiati (BSc student), M. Zaroni (BSc student), G. Ferrami (BSc student), M. Beltrame (BSc student), and D. Abriola (BSc student, ongoing) at the University of Milan.
- 2016 – Co-supervisor of U. Rescigno (PhD student), S. Torniamenti (MSc student), M. Burghesu (BSc student), C. De Paoli (BSc student), G. Granata (BSc student), C. Minarini (BSc student), R. Malandrino (BSc student), and M. Schulz (BSc student) at the University of Milan.
- 2014 – 2018 Main supervisor of M. Bonamigo (Postdoc), E. Munari (Postdoc), W. G. Parry (MSc student), M. F. Hansen (MSc student), and P. Gandhi (Yale undergrad student, summer project) at the University of Copenhagen.

#### • SCIENTIFIC VISITS & TRAVELS

- 2005 – Participation in more than 60 international scientific conferences, workshops and PhD schools, with invited and contributed oral presentations and posters.
- 2004 – 2008 European Southern Observatory (Garching, Germany): several visits (total 25 months).
- 2006 Kavli Institute for Theoretical Physics (Santa Barbara, California, USA): 1 month visit.

#### • ORGANIZATION OF SCIENTIFIC MEETINGS AND SCHOOLS

- (2020) Member of the SOC of the international conference *Zooming into dark matter and proto-galaxies with gravitational lensing*, Sexten, Italy.
- 2019 Member of the SOC of the international conference *Matera Oscura: Cosmology and Dark Matter within Galaxies and Clusters*, Matera, Italy.
- 2018 Co-chair of the international conference *The Universe as a telescope: probing the cosmos at all scales with strong lensing*, University of Milan, Italy.
- 2018 Member of the SOC of the MSc and PhD School *Hands-on multi-probe mass measurements in galaxy clusters*, University of Milan, Italy.

- 2015 Organizer of the workshop *Shedding light on dark matter in galaxy clusters*, University of Copenhagen, Denmark.
- 2011 Chair of the international PhD School *Hands-on Strong Gravitational Lensing*, Cluster of Excellence “Origin and Structure of the Universe”, Garching, Germany.

• **INSTITUTIONAL RESPONSIBILITIES**

- 2017 – Member of the PhD Faculty Committee, Physics Department, University of Milan.
- 2015 Contributor to the new Astrophysics MSc curriculum, NBI, University of Copenhagen.
- 2014 – 2017 Member of the Hiring Committee, NBI, University of Copenhagen.

• **COMMISSIONS OF TRUST**

- 2019 Invited reviewer for the funding programme *Talent Programmes Veni, Vidi and Vici* of the Dutch Research Council (NWO).
- 2010 – Journal Referee for: The Astrophysical Journal, Monthly Notices of the Royal Astronomical Society, Astronomy & Astrophysics, The European Physical Journal Plus
- 2017 Chair of the PhD evaluation committee of Anthea King (NBI, University of Copenhagen, Denmark and University of Queensland, Australia).
- 2015 Invited reviewer for the funding programme *FONDECYT Regular 2016 grant competition* of the Chilean National Science and Technology Commission (CONICYT - Chile).
- 2011 Invited reviewer for the funding programme *Excellence in Research* of the Romanian National Council for Scientific Research.

• **MEMBERSHIPS OF SCIENTIFIC SOCIETIES**

- 2018 – Member of the Italian National Institute for Astrophysics (INAF).
- 2015 – Member of the International Astronomical Union (IAU).

• **MAJOR COLLABORATIONS**

- 2019 – Team member of the Young Supernova Experiment (YSE) at the Pan-STARRS1 and Pan-STARRS2 telescopes to discover and photometrically monitor astrophysical transients.
- 2019 – PI of a Large Synoptic Survey Telescope (LSST) project on galaxy clusters funded by INAF (15 PIs in total).
- 2018 – Team member of a James Webb Space Telescope Early Release Science Program (ID 1324).
- 2012 – Euclid Consortium: Strong Lensing Science Working Group.
- 2010 – Core Team Member of the VLT/VIMOS Large Programme (225 hrs) “Dark Matter Mass Distributions of Hubble Treasury Clusters and the Foundations of LCDM Structure Formation Models” (CLASH-VLT).
- 2010 – 2014 Core Team Member of the 524-orbit Multi-Cycle HST Treasury Program “Cluster Lensing And Supernova survey with Hubble” (CLASH).

• **PUBLIC OUTREACH**

- 2018 *Using Supernova Refsdal to Measure the Hubble Constant*, AAS Nova Research highlights; *Icarus, la stella più lontana mai osservata*, University of Milan announcement.
- 2018 Supervision of D. Errico (“Collegio Rotondi” high-school student) during a two-week, full-time internship.
- 2017 *Once-in-a-lifetime event*, paper in the Italian Physical Society journal, *Il Nuovo Saggiatore* (2017, Vol. 33, No. 1-2); *Scoperta una misteriosa galassia a disco nell'Universo giovane*, University of Milan announcement.
- 2015 *MUSE Observations Enable Prediction of Once-in-a-lifetime Supernova Replay*, ESO announcement (ann15088); *Kosmiske forstørrelsesglas*, popular paper on astronomy in the KVANT journal.

• **OBSERVATIONAL EXPERIENCE**

More than 700 hours of observing time (both as PI and CoI) at the Very Large, Nordic Optical, and Hubble Space Telescopes. At these telescopes, more than 10 nights of experience as visiting astronomer.

• **FOREIGN LANGUAGES**

Italian: mother tongue • English: advanced (C1/C2). “Certificate in English Language Teaching to Adults (CELTA)”, University of Cambridge • German: intermediate (B1/B2) • Danish: pre-intermediate (A2/B1).

- **SELECTED INVITED AND CONTRIBUTED ORAL PRESENTATIONS AT INTERNATIONAL EVENTS**

- Making progress in the understanding of the (inner) mass structure of galaxy clusters, Jul. 8 2019, “*Tracing Cosmic Evolution with Clusters of Galaxies*”, Sexten.
- Cosmological applications of time-varying sources strongly lensed by galaxy clusters, Jun. 20 2019, “*Strong gravitational lensing by galaxies and clusters*”, Skye.
- Cosmological applications of time-varying sources strongly lensed by galaxy clusters, Feb. 7 2019, “*Cosmic Beacons*”, Sexten.
- Probing the cores of galaxy clusters with strong gravitational lensing, “*Cluster IP*”, Sep. 12 2018, Naples.
- Modelling lenses and sources with HST and MUSE data in HFF MACS 1149 (and a bit more), Jul. 24 2017, “*Exploring dark matter and dark ages with lensing clusters*”, Sexten.
- Modelling lenses and sources with HST and MUSE data in HFF MACS 1149, Jun. 26 2017, “*Strong gravitational lensing by galaxies and clusters*”, Cogné.
- Advances in the understanding of the mass structure of galaxy clusters, Feb. 27 2017, “*Cluster I*”, Torino.
- MUSE observations enable the prediction of a once-in-a-lifetime lensed supernova, Jul. 7 2016, European Week of Astronomy and Space Science 2016, Athens.
- Advances in the understanding of the mass structure of galaxy clusters, Jul. 6 2016, European Week of Astronomy and Space Science 2016, Athens.
- The mass structure of galaxy clusters probed with strong gravitational lensing, May 17 2016, ESO, Garching.
- Spectroscopy as a key diagnostic tool in astrophysics, Mar. 31 2016, “*4<sup>th</sup> International Conference Frontiers in Diagnostic Technologies*”, Frascati.
- Dark matter viewed through strong lensing, Feb. 24 2016, “*Astrophysics of Dark Matter*”, Sexten.
- The Hubble Frontier Fields scrutinised by the Very Large Telescope, Aug. 3 2015, XXIX IAU General Assembly, Honolulu.
- The total mass reconstruction and the inner subhalo population of the galaxy cluster MACS J0416.1-2403, Mar. 22 2015, Kapteyn Astronomical Institute, University of Groningen.
- The total mass reconstruction and the inner subhalo population of the galaxy cluster MACS J0416.1-2403, Nov. 19 2014, “*Galaxies and Cosmology in Light of Strong Lensing*”, Kavli IPMU, Kashiwa.
- The dark-matter haloes of massive galaxies and clusters of galaxies, Nov. 11 2014, Academia Sinica Institute of Astronomy and Astrophysics, Taipei.
- Strong lensing modeling in the CLASH and Frontier Fields cluster MACS J0416.1-2403: the total mass reconstruction and the inner subhalo population, Jun. 23 2014, “*Future Directions in Galaxy Cluster Surveys*”, Paris.
- The successful synergy between HST and VLT: accurate strong lensing modeling in the CLASH and Frontier Fields cluster MACS J0416-2403, Mar. 19 2014, “*Science with the Hubble Space Telescope IV: Looking to the Future*”, Rome.
- The mass structure of massive lens galaxies, Feb. 6 2014, “*Unveiling the Formation of Massive Galaxies - Theoretical and Observational Challenges*”, Aspen.
- Revisiting MACS J0416.1-2403 using spectra and GLEE, Sep. 18 2013, Royal Astronomical Society, London.
- Disentangling dark-matter profiles in CLASH galaxy clusters, Jul. 1 2013, “*Tracing Cosmic Evolution with Clusters of Galaxies*”, Sexten.
- The inner slope(s) of dark matter haloes: ‘hidden’ baryonic and/or CDM physics?, Jun. 18 2013, “*Galaxy formation under the magnifying glass of gravitational lensing*”, Courmayeur.
- Studying dark matter in lens galaxies and galaxy clusters, Mar. 26 2013, Department of Physics, University of Trieste.
- Strong gravitational lensing at different physical scales, Dec. 7 2012, Department of Astronomy, Stockholm University.
- Dark matter measurements in CLASH clusters, Oct. 16 2012, Universidad del País Vasco/Euskal Herriko Unibertsitatea, Bilbao.
- Strong gravitational lensing from galaxies to clusters of galaxies, Jul. 13 2012, “*Workshop in honor of Giuseppe Bertin’s 60<sup>th</sup> birthday*”, Como.
- Lens magnification estimates for high-redshift galaxies, Oct. 19 2011, Internationales Wissenschaftsforum, Heidelberg.

- Massive early-type galaxies as strong gravitational lenses, Jul. 5 2011, “*A New Generation of Galaxy Clusters Surveys*”, Sexten.
- Dark matter in strong gravitational lenses, Jun. 28 2011, “*Dark matter from globular clusters to clusters of galaxies*”, Bologna.
- The dark-matter haloes of massive early-type galaxies, Jun. 20 2011, “*Strong gravitational lensing from stars to dark matter haloes*”, Courmayeur.
- Dark matter in massive early-type galaxies, Jan. 20 2011, NASA Jet Propulsion Laboratory, Pasadena.
- Cosmology with Strong Gravitational Lensing, Jan. 11 2011, “*Essential Cosmology for the Next Generation*”, Puerto Vallarta.
- Luminous and dark-matter in early-type lens galaxies, Aug. 3 2009, XXVII IAU General Assembly, Rio de Janeiro.
- Early-type lens galaxies as strong gravitational lenses, Jun. 22 2009, “*Strong Gravitational Lensing in the Next Decade*”, Cogne.
- Mass decomposition in early-type galaxies: luminous and dark matter from lensing and photometric measurements, Sep. 29 2008, “*Dark Matter, Dark Energy and Dark Ages with Gravitational Lensing*”, Sydney.
- Cosmological parameters from strong gravitational lensing and stellar dynamics in elliptical galaxies, Aug. 30 2007, “*A Century of Cosmology. Past, Present, and Future*”, San Servolo.
- Mass estimates in a lens galaxy at high redshift, Jun. 18 2007, “*Dark Matter in Galaxies and Galaxy Clusters*”, Bologna.
- Strong lensing by a galaxy member of the distant cluster Cl J 0152.7-1357, Sep. 28 2006, Kavli Institute for Theoretical Physics, Santa Barbara.
- Strong lensing analysis of RDCS 1252.9-2927, May 30 2005, “*Luminous and Dark Matter in Galaxies and Clusters of Galaxies*”, Bologna.
- **ACCEPTED OBSERVATIONAL PROPOSALS IN THE LAST TEN YEARS**
- 186.A-0798 (CoI): “Dark Matter Mass Distributions of Hubble Treasury Clusters and the Foundations of LambdaCDM Structure Formation Models”, 225 hrs *VLT/VIMOS*.
- 386-0163 (PI): “The dark and luminous structure of two extraordinarily massive and compact early-type lens galaxies”, 10 hours *VLT/VIMOS*.
- 089.A-0222 (CoI): “Insights into a complex CASSOWARY lens”, 4 hrs *VLT/X-shooter*.
- 089.A-0408 (PI): “The physical properties of three magnified red galaxies at redshift  $z \sim 2$ ”, 4 hrs *VLT/X-shooter*.
- 46-025 (PI): “Galaxy Group as efficient Gravitational Telescope”, 8 hrs *NOT/MOSCA* + 8 hrs *NOT/NOTCam*.
- 090.B-0126 and 089.B-0123 (CoI): “The mass structure and dynamics of evolving galaxies: dissecting a unique massive early-type galaxy at intermediate redshift”, 30 hrs *VLT/VIMOS*.
- 090.A-0152 (PI): “Probing the distribution of dark matter in the central regions of the lensing cluster Abell 209”, 8 hrs *VLT/FORS2*.
- 091.A-0852 (CoI): “The nature of the most massive elliptical galaxies at intermediate redshifts acting as strong gravitational lenses”, 18.8 hrs *VLT/X-shooter*.
- 60.A-9345(A) (CoPI): “Abell S1063”, 4 hrs *VLT/MUSE*.
- 094.A-0684 (PI): “Investigating the internal structure of galaxies through strong gravitational lensing and stellar dynamics beyond the current mass frontiers”, 27.8 hrs *VLT/X-shooter*.
- 294.A-5032 (PI): “Once in a lifetime: reconstructing a cluster mass distribution with the time delays of the first multiply-imaged supernova and MUSE unique capabilities”, 5 hrs *VLT/MUSE*.
- 095.A-0653 (CoI): “A MUSE Deep Look into the Frontier Fields Cluster Abell S1063”, 4 hrs *VLT/MUSE*.
- 095.A-0840 (CoI): “Investigating the nature of the ionizing source and the Lyman continuum leakage of a  $L = 0.02 L^*$  galaxy at  $z = 3.116$  magnified by the Frontier Field galaxy cluster Abell S1063”, 5 hrs *VLT/X-shooter*.
- 096.B-0994 (CoI): “Resolving the inner structure and stellar kinematics of compact quenched  $z > 2$  galaxies”, 6.3 hrs *VLT/X-shooter*.
- 196.A-0778 (CoI): “The formation and evolution of galaxies from cosmic dawn to high-noon under a magnifying GLASS”, 140 hrs *VLT/KMOS*.

- 097.B-1064 (CoI): “Resolving the inner structure and stellar kinematics of a compact quenched  $z > 2$  galaxy”, 10 hrs *VLT/X-shooter*.
  - 197.A-0717 (CoI): “A KMOS Survey to Grasp the Essential Astrophysics of High Redshift Galaxies”, 46 hrs *VLT/KMOS*.
  - 297.A-5026 (CoI): “Exploiting the extreme magnification of a caustic-crossing event. Imaging a single star at  $z = 1.49$ ”, 9 hrs *VLT/FORS2*.
  - 098.A-0182 (CoI): “State-of-the-art cosmic telescopes call for deep spectroscopy: imaging of faint ( $0.005 L^* < L < 0.2 L^*$ ) star-forming galaxies at the edge of the reionization epoch”, 15 hrs *VLT/FORS2*.
  - 098.A-0665 (CoI): “Pushing X-Shooter high-resolution spectroscopy to the faintest limits: unveiling the physical properties of  $L < 0.1 L^*$  redshift  $\gtrsim 3$  Ly $\alpha$ -emitters”, 20 hrs *VLT/X-shooter*.
  - 099.A-0804 (CoI): “Unveiling the physical and ionizing properties of newborn  $z \gtrsim 3$  sources: witnessing globular cluster formation”, 3.8 hrs *VLT/X-shooter* + 16 hrs *VLT/FORS2*.
  - 099.B-0912 (CoI): “Resolving the inner structure and stellar kinematics of a compact quenched  $z \sim 2$  galaxy”, 4 hrs *VLT/X-shooter*.
  - 0100.A-0763 (CoI): “MUSE at the focus of gravitational telescopes: the deepest view of forming star-clusters in the early Universe”, 22 hrs *VLT/MUSE*.
  - GO15253 (CoI): “The nature of ultra-massive lens galaxies”, 8 orbits *HST/WFC3*.
  - 0101.B-0619 (CoI): “The nature of ultra-massive lens galaxies”, 5.7 hrs *VLT/X-shooter*.
  - 0101.B-0262 (CoI): “A new metallicity diagnostic of high-redshift galaxies from direct abundance measurements”, 16 hrs *VLT/X-shooter*.
  - 0102.A-0266 (CoI): “MUSE, HST and gravitational lensing at full power to probe the galaxy faint luminosity function at  $z \sim 5.5$ -6.5 and the inner mass distribution of ultra-massive galaxy clusters at  $z = 0.5$ -0.9”, 18 hrs *VLT/MUSE*.
  - 0102.A-0391 (CoI): “An in-depth study with X-Shooter and MUSE of the unique Lyman continuum emitting galaxies at  $z = 3$ -4”, 5 hrs *VLT/X-shooter*.
  - 0102.A-0619 (CoI): “Nature’s largest, high-resolution, wide-field, cosmic telescope”, 15.5 hrs *VLT/HAWK-I*.
  - 0102.A-0640 (CoI): “Probing the nature of a giant gravitational telescope and the lensed primordial galaxies with MUSE”, 12 hrs *VLT/MUSE*.
  - 0102.A-0642 (PI): “Venturing into the cosmos with MUSE: first estimates of the expansion rate and the geometry of the Universe with a quasar multiply lensed by a galaxy cluster”, 5 hrs *VLT/MUSE*.
  - 0103.A-0688 (CoI): “The Rosetta Stone of stellar ionization: an exceptionally bright gravitationally lensed Lyman continuum emitter at  $z = 2.4$ ”, 2.5 hrs *VLT/X-shooter* + 2.6 hrs *VLT/MUSE*.
  - 0103.A-0554 (PI): “MUSE unique capabilities for accurate new measurements of the cosmic expansion rate and geometry through time delays in a rare lens galaxy cluster”, 5 hrs *VLT/MUSE*.
  - 0104.A-0254 (CoI): “Measuring the Hubble constant to within 2% with four quasar lenses and MUSE-WFM”, 18 hrs *VLT/MUSE*.
  - 0104.A-0830 (CoI): “A unique lens galaxy group with a central ultra-massive elliptical galaxy: probing its mass distribution using the outstanding capabilities of MUSE”, 5 hrs *VLT/MUSE*.
  - 0105.A-0272 (CoI): “Refining the measurement of  $H_0$  with SN Refsdal and determining the intrinsic physical properties of a  $z = 9.1$  proto-galaxy”, 5 hrs *VLT/MUSE*.
  - 0105.A-0387 (CoI): “The Rosetta Stone of stellar ionization: an exceptionally bright gravitationally lensed Lyman continuum emitter at  $z = 2.4$ ”, 9 hrs *VLT/KMOS*.
- **PUBLICATION LIST (only refereed papers, published or in press)**
1. **Grillo, C., Gobat, R., Rosati, P., and Lombardi, M.** 2008: “*Stellar mass estimates in early-type galaxies from lensing+dynamical and photometric measurements*”, *A&A*, 477, 25.  
(<https://arxiv.org/abs/0712.0680>)
  2. **Grillo, C., Lombardi, M., and Bertin, G.** 2008: “*Cosmological parameters from strong gravitational lensing and stellar dynamics in elliptical galaxies*”, *A&A*, 477, 397.  
(<https://arxiv.org/abs/0711.0882>)
  3. **Grillo, C., Lombardi, M., Rosati, P., Bertin, G., Gobat, R., Demarco, R., Lidman, C., Motta, V., and Nonino, M.** 2008: “*A twelve-image gravitational lens system in the  $z \sim 0.84$  cluster Cl J0152.7-1357*”, *A&A*, 486, 45.  
(<https://arxiv.org/abs/0805.2381>)



4. **Grillo, C.**, Gobat, R., Lombardi, M., and Rosati, P. 2009: “*Photometric mass and mass decomposition in early-type lens galaxies*”, *A&A*, 501, 461.  
(<https://arxiv.org/abs/0904.3282>)
5. **Grillo, C.**, Eichner, T., Seitz, S., Bender, R., Lombardi, M., Gobat, R., and Bauer, A. 2010: “*Golden gravitational lensing systems from the Sloan Lens ACS Survey. I. SDSS J1538+5817: one lens for two sources*”, *ApJ*, 710, 372.  
(<https://arxiv.org/abs/0912.0744>)
6. **Grillo, C.** and Gobat, R. 2010: “*On the Initial Mass Function and tilt of the Fundamental Plane of massive early-type galaxies*”, *MNRAS*, 402, 67.  
(<https://arxiv.org/abs/0912.4051>)
7. **Grillo, C.** 2010: “*Projected Central Dark Matter Fractions and Densities in Massive Early-type Galaxies from the Sloan Digital Sky Survey*”, *ApJ*, 722, 779.  
(<https://arxiv.org/abs/1009.2183>)
8. **Grillo, C.** and Christensen, L. 2011: “*Dark matter-rich early-type galaxies in the CASSOWARY 5 strong lensing system*”, *MNRAS*, 418, 929.  
(<https://arxiv.org/abs/1108.0678>)
9. Zitrin, A., Moustakas, J., Bradley, L., Coe, D., Moustakas, L. A., Postman, M., Shu, X., Zheng, W., Benítez, N., Bouwens, R., et al. 2012: “*CLASH: Discovery of a Bright  $z \sim 6.2$  Dwarf Galaxy Quadruply Lensed by MACS J0329.6-0211*”, *ApJ*, 747, 9.  
(<https://arxiv.org/abs/1111.5006>)
10. **Grillo, C.** 2012: “*On the Average Density Profile of Dark-matter Halos in the Inner Regions of Massive Early-type Galaxies*”, *ApJ*, 747, 15.  
(<https://arxiv.org/abs/1202.3791>)
11. Zitrin, A., Rosati, P., Nonino, M., **Grillo, C.**, Postman, M., Coe, D., Seitz, S., Eichner, T., Broadhurst, T., Jouvel, S., et al. 2012: “*CLASH: New Multiple Images Constraining the Inner Mass Profile of MACS J1206.2-0847*”, *ApJ*, 749, 97.  
(<https://arxiv.org/abs/1107.2649>)
12. Toft, S., Gallazzi, A., Zirm, A., Wold, M., Zibetti, S., **Grillo, C.**, and Man, A. 2012: “*Deep Absorption Line Studies of Quiescent Galaxies at  $z \sim 2$ : The Dynamical-mass–Size Relation and First Constraints on the Fundamental Plane*”, *ApJ*, 754, 3.  
(<https://arxiv.org/abs/1204.3099>)
13. Vanzella, E., Nonino, M., Cristiani, S., Rosati, P., Zitrin, A., Bartelmann, M., Grazian, A., Broadhurst, T., Meneghetti, M., and **Grillo, C.** 2012: “*Probing ionizing radiation of  $L \lesssim 0.1 L^*$  star-forming galaxies at  $z \gtrsim 3$  with strong lensing*”, *MNRAS*, 424, 54.  
(<https://arxiv.org/abs/1205.4028>)
14. Umetsu, K., Medezinski, E., Nonino, M., Merten, J., Zitrin, A., Molino, A., **Grillo, C.**, Carrasco, M., Donahue, M., Mahdavi, A., et al. 2012: “*CLASH: Mass Distribution in and around MACS J1206.2-0847 from a Full Cluster Lensing Analysis*”, *ApJ*, 755, 56.  
(<https://arxiv.org/abs/1204.3630>)
15. Postman, M., Lauer, T. R., Donahue, M., Graves, G., Coe, D., Moustakas, J., Koekemoer, A., Bradley, L., Ford, H. C., **Grillo, C.**, et al. 2012: “*A Brightest Cluster Galaxy with an Extremely Large Flat Core*”, *ApJ*, 756, 159.  
(<https://arxiv.org/abs/1205.3839>)
16. Coe, D., Umetsu, K., Zitrin, A., Donahue, M., Medezinski, E., Postman, M., Carrasco, M., Anguita, T., Geller, M. J., Rines, K. J., et al. 2012: “*CLASH: Precise New Constraints on the Mass Profile of Abell 2261*”, *ApJ*, 757, 22.  
(<https://arxiv.org/abs/1201.1616>)
17. Zheng, W., Postman, M., Zitrin, A., Moustakas, J., Shu, X., Jouvel, S., Host, O., Molino, A., Bradley, L., Coe, D., et al. 2012: “*A highly magnified candidate for a young galaxy seen when the Universe was 500 Myrs*”, *Nature*, 489, 406.  
(<https://arxiv.org/abs/1204.2305>)
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#### • BIBLIOMETRIC INDICATORS

From SAO/NASA ADS (as of 04/2020):

Academic age (i.e., years of research activity since my first peer-reviewed publication): 12.3.

Total number of refereed publications: 97 (of which 15 as first - 2 as single - and 11 as second author)

2 publications in *Nature* + 2 publications in *Nature Astronomy*

Total number of citations: 4066 – H-index = 38

Number of citations as first author: 480 – H-index as first author: 11.

Data

20 aprile 2020

Luogo

Milano