

# Dr Mattia Negrello

## CURRICULUM VITAE

### PERSONAL INFORMATION

---

NATIONALITY: ITALIAN

DATE AND PLACE OF BIRTH: 27<sup>th</sup> of January 1978, Rovigo, ITALY

HOME:

WORK: INAF – Osservatorio Astronomico di Padova  
Vicolo dell'Osservatorio 5,  
35122, Padova, ITALY

e-mail:

phone:

LANGUAGES: ITALIAN: native speaker

ENGLISH: good knowledge, written and spoken

### QUALIFICATIONS

---

**2006: PH.D. IN ASTROPHYSICS**

International School for Advanced Studies (ISAS/SISSA) of Trieste, ITALY

SUPERVISORS: Prof. De Zotti Gianfranco, Dr Magliocchetti Manuela

THESIS: "*Clustering at high redshift: the sub-millimeter and radio views*"

**2002: MASTER'S DEGREE IN PHYSICS (110/110 cum laude)**

University of Padova, ITALY

SUPERVISORS: Prof. Matarrese Sabino, Prof. Moscardini Lauro

THESIS: "*Models for the clustering of QSOs and their application to the 2dF QSO redshift catalogue*"

## ACADEMIC CAREER

---

- 2011 – 2015: RESEARCH FELLOW of the National Institute for Astrophysics (INAF)  
Astronomical Observatory of Padova, ITALY
- 2006 – 2011: POST-DOCTORAL RESEARCH ASSISTANT  
The Open University, Milton Keynes, UNITED KINGDOM
- 2002: PRE-DOCTORAL FELLOW  
Department of Astronomy of the University of Padova, ITALY

## MAIN RESEARCH INTERESTS AND EXPERTISE

---

- Galaxy formation and evolution
  - Statistical properties of galaxies: measurement and modeling of number counts, luminosity functions, clustering
  - Semi-analytic models: implementation and comparison with data
- Clustering of extragalactic sources:
  - Correlation functions (angular/spatial): measurements and modeling
  - Halo model formalism: implementation and application to both resolved and unresolved extragalactic sources
  - Power spectrum of correlated anisotropies: modeling
- Gravitational lensing
  - Lensed galaxies: selection in wide area sub-mm/mm surveys
  - Statistics of lenses: predictions and interpretation
  - Lensed images: modeling and source reconstruction

## MAJOR PROJECTS WITH LEADING ROLES OR HEAVY INVOLVEMENT

---

- 2008 – present: Head of the lensing working group within the *Herschel* Astrophysical Terahertz Large Area Survey (H-ATLAS) and member of its executive committee
- 2012 – present: Member of the *high-redshift galaxies* working group of the ESA/M5 proposal SPICA (*Space Infrared Telescope for Cosmology and Astrophysics*)
- 2011 – present: Member of the working group on *extragalactic point sources* for the *Planck* all-sky survey
- 2013 – present: Member of the *extragalactic working group* of the ESA/M4 proposal CoRE+ (Cosmic Origins Explorer)
- 2006 – present: Co-I of the AKARI Survey of the North Ecliptic Pole and of the AKARI FU-HYU (Follow-Up Hayai-Yasui-Umai) program

## RESEARCH ACTIVITY

---

I work in the field of *extragalactic astronomy*, with focus on the topic of **galaxy formation and evolution**. I study the early evolutionary phase of elliptical and lenticular galaxies, generally referred to as **early-type galaxies (ETGs)**. In fact

- ETGs are the most massive and the oldest galaxies in the Universe. These properties suggest a “top-down” scenario of galaxy formation in which massive galaxies formed first (*cosmic downsizing*), at variance with what expected from the standard bottom-up scenario of dark matter structure formation
- ETGs harbor a **supermassive black hole (SMBH)** at their center, reminiscent of a QSO phase. Tight relations between the mass of the SMBH and the properties of the ETG stellar component indicate a past mutual interaction between the black hole growth and the build up of the mass in stars.

Proto-ETGs thus represent an **excellent laboratory to test theories of galaxy formation and evolution**. By studying them I aim at understanding the mechanisms behind the *cosmic downsizing* and the interplay between black hole accretion and star formation.

Since both star formation and black hole accretion are characterized by severe dust obscuration around the peak of their cosmic evolution (at  $z \sim 1-3$ ), I investigate the formation of ETGs by means of observations at **mid-/far-infrared to millimeter wavelengths**, where the optical/UV light from stars and active galactic nuclei (AGN) is reprocessed by **dust**.

With collaborators at the Astronomical Observatory of Padova and at the International School for Advanced Studies of Trieste, we have developed a **semi-analytic model** to reproduce the available constraints on number counts, redshift distribution and angular correlation functions of proto-ETGs. The model was also used to work out predictions for planned sub-mm/mm surveys with the *Herschel* and *Planck* space observatories (Negrello et al. 2004, MNRAS, 352, 493; Negrello et al. 2005, MNRAS, 358, 869; Negrello et al. 2007, MNRAS, 377, 1557).

According to the model, the formation of ETGs is mostly controlled by self-regulated baryonic processes i.e. gas collapse and cooling within the same dark matter halo, at variance with other models, which usually invoke either *major mergers* or *cold-accretion flows* as the primary mechanism to trigger the starburst in proto-ETGs.

Although our model has already proved to be very successful in reproducing the available data (see e.g. Lapi et al. 2011, 724, 24; Cai et al. 2013, ApJ, 768, 21; Lapi et al. 2014, ApJ, 782, 69), a definitive test for galaxy formation models is provided by the study of the **spatial distribution and kinematics of the dust and gas in proto-ETGs on sub-kpc scales in a statistically significant sample of sources**. Unfortunately such studies requires high spatial resolution imaging/spectroscopy and long integration time on-sources. They are thus extremely challenging.

A way to overcome these problems is to exploit **strong gravitational lensing**. In fact, by boosting the flux density of the background sources, gravitational lensing facilitates any follow-up observation, in particular spectroscopic detections of dust-obscured galaxies. It

also allows the study of galaxy structures down to scales difficult to probe even with the largest telescopes at present.

For these reasons, in the last few years, I have been working on **gravitational lensing at sub-millimeter/millimeter wavelengths**, further motivated by few facts:

- (1) The predictions based on our galaxy evolution model suggested the possibility of easily detecting large numbers of lensed proto-ETGs in wide area surveys at those wavelengths (Negrello et al. 2007, MNRAS, 377, 1557),
- (2) The advent of instruments like the *Herschel* space observatory, the *South Pole Telescope* (SPT) and the *Planck* space observatory made it possible to map large areas of the sky in the sub-mm/mm region of the electromagnetic spectrum.

I have led the discovery of the first lensed galaxies with the *Herschel* space observatory (Negrello et al. 2010, *Science*, 330, 800) and I am currently investigating the properties of lensed proto-spheroidal galaxies identified in the *Herschel* Astrophysical Terahertz Large Area Survey (H-ATLAS; e.g. Negrello et al. 2014, 440, 1999; Dye, Negrello et al. 2014, 440, 2013).

Within the *Planck* Collaboration I am working on the identification and the study of lensed galaxies drawn from the *Planck* all sky survey (*Planck* Intermediate Results, XXVII, 2014, submitted). These objects represent the brightest lensed dusty galaxies ever discovered (Canameras et al. 2014, A&A, submitted).

For the long term, I am contributing to the ESA/M4 and ESA/M5 proposals CORe+ (*Cosmic Origins Explorer*) and SPICA (*Space Infrared Telescope for Cosmology and Astrophysics*), respectively. CORe+ will identify many thousands of lensed dusty galaxies over the whole sky (De Zotti et al. 2014, A&A submitted), while mid-infrared spectroscopic follow-up observations with SPICA of known lensed galaxies will allow us to study in detail the galaxy/black-hole co-evolution around the peak of the cosmic star formation of the Universe (Bonato, Negrello et al. 2014, MNRAS, 438, 2547; Bonato, Negrello et al. 2014, MNRAS, 444, 3446).

## KEY ACHIEVEMENTS AND AWARDS

---

- I have led the lensing science case for the *Herschel* Astrophysical Terahertz Large Area Survey (H-ATLAS), the widest area extragalactic surveys conducted with the *Herschel* Space Observatory and I am now a member of the executive committee of H-ATLAS
- I am one of the head of the working group on gravitational lensing within H-ATLAS. I coordinate the follow-up observations of candidate lensed galaxies and act as internal referee for any paper concerning lensed galaxies
- I have led the discovery of the first lensed galaxies with the *Herschel* space observatory, and the results were published in the *Science* journal (Negrello et al., 2010, *Science*, 330, 800)

- I have obtained observing time with the *Hubble Space Telescope* (HST) in cycle-18 and in cycle-19 and with the *Sub-Millimeter Array* (SMA) to produce high spatial resolution imaging of candidate lensed galaxies discovered in H-ATLAS (e.g. Negrello et al. 2014, MNRAS, 440, 1999; Dye, Negrello et al. 2014, MNRAS, 440, 2013)
- I have provided a successful theoretical framework to model the statistical properties of dusty galaxies (Negrello et al. 2007, MNRAS, 377, 1557) and of sub-mm selected lensed galaxies (Lapi, Negrello et al. 2012, ApJ, 755, 46)
- I have identified the brightest lensed galaxies in the Universe from the whole sky catalogue of point sources produced by the *Planck* space observatory (Planck intermediate results XXVII, 2014, submitted) and I was the first to argue that the Planck surveys could be used to search for high redshift proto-clusters (Negrello et al. 2005, MNRAS, 358, 869); a prediction confirmed by recent findings (Clements et al. 2014, MNRAS, 439, 1193; Planck Intermediate Results XXVII, 2014, submitted)
- Because of my experience in the field of galaxy evolution and of gravitational lensing I am a regular referee of papers submitted to the *Monthly Notices of the Royal Astronomical Society* (MNRAS), the *Astronomy & Astrophysics* (A&A) *Journal*, the *Astrophysical Journal* (ApJ) and the *Journal of Cosmology & Astroparticle Physics* (JCAP)
- For my commitment to the promotion of astronomy in my hometown and its province I became an honorary member of the local group of amateur astronomers and the scientific director of their astronomical observatory where I carry out teaching activities for students and visitors
- In 2012 I received a 10,000€ funding from the association “Fondazione Cassa di Risparmio di Padova e Rovigo” (CARIPARO) to buy new scientific instruments (a telescope, a CCD camera, teaching material etc.) for the Astronomical Observatory “Vanni Bazzan” of Rovigo (ITALY), run by the Gruppo Astrofili Polesani
- I obtained a “PRIN<sup>1</sup> INAF 2012” funding of 16,000€ for the project: “*Looking into the dust-obscured phase of galaxy formation through cosmic zoom lenses in the Herschel-ATLAS*”
- In 2011 The Open University gave me a prize of 1000€ for the merits achieved in the field of gravitational lensing in the sub-millimeter
- I was one of the few finalists (among hundreds of applicants) of the competition “FUTURO IN RICERCA 2013” by the Ministry of Education, University and Research (MIUR), with the project “*Looking into the dust-obscured phase of galaxy formation through cosmic zoom lenses in the Herschel-ATLAS*” (requested funding: 500,000 €)

---

<sup>1</sup> Progetti di Ricerca di rilevante Interesse Nazionale (research projects of relevant National interest)

## TEACHING

---

- I have been supervising the following students
  - Rosalind Hopwood, PhD student at the Department of Physical Sciences of The Open University (Milton Keynes, UK) from October 2006 to October 2010, now postdoctoral research fellow at the Imperial College (London, UK)
  - Simon Amber, 3<sup>rd</sup> year PhD student at the Department of Physical Sciences of The Open University (Milton Keynes, UK)
  - Matteo Bonato, 3<sup>rd</sup> year PhD student at the Department of Physics and Astronomy of the University of Padova (ITALY)
  - Andrea Enia, graduate student at the Department of Physics and Astronomy of the University of Padova (ITALY)
- I have been a tutor for The Open University Residential School *SXR208: “Observing the Universe”*, from September 2009 to September 2011, at the Astronomical Observatory of Mallorca (Spain). In that period I supervised groups of 7-8 students through several projects, involving both observations at the telescopes and data analysis, in situ. I guided the students through their activity and at the same time I assessed the level of knowledge and comprehension they achieved
- I proof read for the third level course book of the OU Cosmology Course S383 “Observational Cosmology”, written by Dr Stephen Serjeant
- At The Open University I gave lessons to the second and third year PhD students on the topics of Cosmology and of Gravitational Lensing. I was also the organizer of weekly meetings within the OU Cosmology community – the Cosmology Coffe Club – which give PhD students the opportunity to discuss their own work with more experienced researchers who could provide useful feedback and advice
- I regularly organize courses of astronomy for the members of the Gruppo Astrofili Polesani and teach them how to use the telescope, how to make observations with a CCD camera and how to analyze astronomical images
- I often give lessons in schools on several astronomical topics like the life and death of stars, the large scale structure of the Universe, gravitational lensing, the formation and evolution of galaxies, the infrared Universe

## OUTREACH AND PUBLIC ENGAGEMENT

---

I am an active member of Gruppo Astrofili Polesani (GAP), the group of amateur astronomers of my hometown (Rovigo), which aims at promoting astronomy in our town and its province. In particular

- I take care of the website of the group, their Facebook page (with >3000 “friends”) and their weekly newsletter (~2000 subscribers), which we use to advertise our activities, including conferences and stargazing events

- I organize each year a cycle of public conferences on Astronomy and Earth Science with professional astronomers, geologists and climatologists (mainly from the Astronomical Observatory of Padova and the Universities of Padova, Ferrara and Bologna)
- I direct the Osservatorio Astronomico “Vanni Bazzan” of Rovigo, a small astronomical observatory run by the GAP. The observatory hosts a 410mm Newtonian telescope equipped with a CCD camera Atik 383L. The observatory is open to the public every Friday evening. We entertain the visitors with a brief introduction on the night sky and constellations, and then we guide them through the observation of interesting objects at the telescope
- I regularly organize courses of astronomy for the members of the GAP and teach them how to use the telescope, how to make observations with a CCD camera and how to analyze astronomical images
- I carry out research activities on the color-magnitude diagrams of star clusters with small groups of students from the local high schools. As part of this activity I teach the students how to take images with the CCD camera and how to elaborate the data with MAXIMDL, and I also give them lessons on stellar evolution
- In 2012 I have involved three members of the GAP in a research project concerning the analysis of the *Planck* Early Release Compact Source Catalogue (ERCSC). I trained them on how to use the public software ALADIN and the NASA EXTRAGALACTIC DATABASE to identify star forming galaxies, radio sources and Galactic sources in the ERCSC. The resulting sample of star forming galaxies was used to estimate the local luminosity function of dusty galaxies (Negrello et al. 2013, MNRAS, 429, 1309) and to study their spectral energy distribution (Clemens, Negrello et al., 2013, MNRAS, 433, 695). The three members of the GAP were added as co-authors to the papers, thus giving international visibility to our group.

## TALKS

---

### 2014

- SPICA workshop, University of Oxford (UK), Sept. 16 – Sept. 18, 2014  
Title: *Investigating the co-evolution of galaxies and black holes with SPICA/SAFARI*
- SPICA workshop, SRON, Groningen (Netherlands), March 11 – March 13, 2014  
Title: *Spectroscopic extragalactic surveys with SPICA/SAFARI*
- First FISICA Workshop: “Science goals of a sub-arcsecond Far-Infrared Space Observatory”, CNR, Roma (Italy), Feb. 17 – Feb. 18, 2014  
Title: *Probing the early evolution of supermassive black holes in proto spheroids at  $z > 1.5$*
- (Invited) Workshop on an M4 ESA Microwave/Far-infrared polarized Satellite Bid, Laboratories APC, Paris (France), Feb. 10 – Feb. 11, 2014  
Title: *Dusty Galaxies*

### 2013

- Second ESA/Herschel international conference: “The Universe Explored by Herschel”, ESA-ESTEC, Noordwijk (Netherlands), Oct. 15 – Oct. 18, 2013  
Title: *The Herschel-ATLAS sample of strongly lensed galaxies*
- 2013 SPICA international conference: “From exoplanets to distant galaxies: SPICA’s new window on the cool Universe”, University of Tokyo, Tokyo (Japan), June 18 – June 21, 2013  
Title: *Predictions for SPICA/SAFARI based on a hybrid model for infrared galaxies*
- (Invited) ASTRO-PIZZA in Padova  
INAF - Osservatorio Astronomico di Padova (Italy), May 22, 2013  
Title: *ALMA zooms in on distant galaxies*
- 47<sup>th</sup> ESLAB Symposium: “The Universe as seen by Planck”, ESA/ESTEC, Noordwijk (Netherlands), April 2 – April 5, 2013  
Title: *The local luminosity function of star-forming galaxies derived from the Planck Early Release Compact Source Catalogue*
- (Invited) INAF - Osservatorio Astronomico di Arcetri, Firenze, (Italy), January 17, 2013  
Title: *Dusty galaxies under cosmic zoom lenses*

### 2012

- (Invited) Department of Physics and Astronomy of Padova (Italy), December 14, 2012  
Title: *Dusty galaxies under cosmic zoom lenses in the Herschel Astrophysical Terahertz Large Area Survey*
- (Invited) NAM2012, University of Manchester (UK), March 27-30, 2012  
Title: *H-ATLAS Lens Survey: looking for lensed galaxies in the sub-mm with the Herschel Space Observatory*
- (Invited) INAF – Osservatorio Astronomico di Roma (Italy), March 13, 2012



Title: *Looking for lensed galaxies in the sub-mm with the Herschel Space Observatory*

- (Invited) Department of Astronomy, University of Bologna (Italy), January 17, 2012  
Title: *Looking for strongly lensed galaxies in the sub-mm with the Herschel-ATLAS*

#### 2011

- (Invited) Institute for Astronomy (IfA) of the University of Edinburgh (UK), November 2, 2011  
Title: *The Herschel-ATLAS: search of lensed galaxies and implication for the nature of the sub-mm bright source counts*
- (Invited) Workshop “*Star Formation in Galaxies: The Herschel Era*”, Schloss Ringberg (Ringberg castle), Bavaria (Germany), June 19 - June 25, 2011  
Title: *Lensed Galaxies detected by Herschel: on the nature of the bright sub-mm number counts*
- (Invited) Conference “*Unveiling the Far-IR and Sub-mm Extragalactic Universe: Herschel, ALMA, CCAT, SPICA, and Beyond*”, Center for Cosmology, University of California, Irvine (USA), May 12 - 14, 2011  
Title: *Strongly Lensed Galaxies in the sub-mm: selection and sample exploitation*
- (Invited) University of Hertfordshire (UK), January 26, 2011  
Title: *Looking for Gravitational Lenses in the Sub-millimeter with the Herschel Space Observatory*

#### 2010

- (Invited) School of Physics and Astronomy, University of Nottingham (UK), November 24, 2010  
Title: *Looking for Gravitational Lenses in the sub-millimeter with the Herschel Space Observatory*
- ESLAB 2010: “*Herschel First Results Symposium*”, ESTEC, Noordwijk (Netherlands), 4 May – 7 May, 2010  
Title: *The Herschel-ATLAS: discovery and properties of the brightest 500  $\mu\text{m}$  galaxies in the Universe*

#### 2009

- (Invited) Department of Astronomy, University of Oxford (UK), June 17, 2009  
Title: *Herschel ATLAS as a way for finding gravitational lenses*
- First AKARI international conference: “*AKARI: a way to illuminate the misty Universe*”, University of Tokyo, Tokyo (Japan), Feb. 16 – Feb. 19, 2009  
Title: *Testing the efficiency of infrared features as redshift indicators in AKARI surveys*

#### 2007

- International conference on “*The origin of galaxies: exploring galaxy evolution with the new generation of infrared-millimeter facilities*”, Obergugl, Innsbruck (Austria), March 24 – March 29, 2007

Title: *Theoretical predictions for future large-scale sub-mm surveys of extragalactic sources*

**2006**

- Italian conference AGN7: “AGNs phenomenology, evolution and processes of galaxy formation”, Montagnana, Padova (Italy), May 23 – May 26, 2006  
Title: *Clues on the cosmic evolution of radio galaxies from their angular clustering*

73 refereed papers, cited more than 2,500 times, with an *H*-index of 29

2015

- *The Cosmic Infrared Background seen by ALMA*  
S. Carniani, R. Maiolino, G. De Zotti, M. Negrello, A. Marconi, M. Botwhell, P. Capak, C. Carilli, M. Castellano, S. Cristiani, A. Ferrara, A. Fontana, S. Gallerani, G. Jones, K. Ohta, K. Ota, L. Pentericci, P. Santini, K. Sheth, L. Vallini, E. Vanzella, J. Wagg, R. Williams  
Submitted to *Astron. & Astrophys.*, (arXiv:1502.00640)
- *Relationship between star formation rate and black hole accretion at  $z=2$ : The different contributions in quiescent, normal and starburst galaxies*  
G. Rodighiero, M. Brusa, E. Daddi, M. Negrello, J. Mullaney, I. Delvecchio, D. Lutz, A. Renzini, A. Franceschini, I. Baronchelli, F. Pozzi, C. Gruppioni, V. Strazzullo, A. Cimatti, J. Silverman  
*Astrophys. J. Letters* in press, (arXiv: 1501.04634)
- *Extragalactic sources in Cosmic Microwave Background maps*  
G. De Zotti, G. Castex, J. Gonzalez-Nuevo, M. Lopez-Caniego, M. Negrello, Z.-Y. Cai, M. Clemens, J. Delabrouille, D. Herranz, L. Bonavera, J.-B. Melin, M. Tucci, S. Serjeant, M. Bilicki, P. Andreani, D. Clements, L. Toffolatti, B. Roukema  
Submitted to *Journal of Cosmology & Astroparticle Physic.*, (arXiv:1501.02170)

2014

- *Exploring the relationship between black hole accretion and star formation with blind mid-/far-infrared spectroscopic surveys*  
M. Bonato, M. Negrello, Z.-Y. Cai; G. De Zotti, A. Bressan, A. Lapi, F. Pozzi, C. Gruppioni, L. Danese  
*Mon. Not. R. Astron. Soc.*, v.444, p.3446-3458 (2014)
- *Planck 2013 results. XXVIII. The Planck Catalogue of Compact Sources*  
Planck Collaboration  
*Astron. & Astrophys.*, v.571, p.28- (2014)
- *Planck 2013 results. I. Overview of products and scientific results*  
Planck Collaboration  
*Astron. & Astrophys.*, v.571, p.1- (2014)
- *Herschel-ATLAS/GAMA: SDSS cross-correlation induced by weak lensing*  
J. González-Nuevo, A. Lapi, M. Negrello, L. Danese, G. De Zotti, S. Amber, M. Baes, J. Bland-Hawthorn, N. Bourne, S. Brough, R. S. Bussmann, Z.-Y. Cai, A. Cooray, S. Driver, L. Dunne, S. Dye, S. Eales, E. Ibar, R. Ivison, J. Liske, J. Loveday, S. Maddox, M. Michalowski, A. S. G. Robotham, D. Scott, M. W. L. Smith, E. Valiante, J.-Q. Xia  
*Mon. Not. R. Astron. Soc.*, v.442, p.2680-2690 (2014)

- *Herschel-ATLAS and ALMA. HATLAS J142935.3-002836, a lensed major merger at redshift 1.027*  
 H. Messias, S. Dye, N. Nagar, G. Orellana, S. Bussmann, J. Calanog, H. Dannerbauer, H. Fu, E. Ibar, A. Inohara, R. Ivison, M. Negrello, D. Riechers, Y.-K. Sheen, J. Aguirre, S. Amber, M. Birkinshaw, N. Bourne, C. Bradford, D. Clements, A. Cooray, G. De Zotti, R. Demarco, L. Dunne, S. Eales, S. Fleuren, J. Kamenetzky, R. Lupu, S. Maddox, D. Marrone, M. Michalowski, E. Murphy, H. Nguyen, A. Omont, K. Rowlands, D. Smith, M. Smith, E. Valiante, J. Vieira  
*Astron. & Astrophys.*, v.568, p.92- (2014)
- *Lens Models of Herschel-Selected Galaxies From High-Resolution Near-IR Observations*  
 J. Calanog, H. Fu, A. Cooray, J. Wardlow, B. Ma, S. Amber, M. Baes, J. Bock, N. Bourne, S. Bussmann, C. M. Casey, S. C. Chapman, D. Clements, A. Conley, H. Dannerbauer, G. De Zotti, L. Dunne, S. Dye, S. Eales, D. Farrah, C. Furlanetto, A. Harris, R. Ivison, S. Maddox, G. Magdis, M. Michalowski, M. Negrello, J. Nightingale, J. M. O'Bryan, S. Oliver, D. Riechers, D. Scott, S. Serjeant, J. Simpson, M. Smith, N. Timmons, C. Thacker, E. Valiante, J. Vieira  
*Astrophys. J.*, in press (2014)
- *The Coevolution of Supermassive Black Holes and Massive Galaxies at High Redshift*  
 A. Lapi, S. Raimundo, R. Aversa, Z.-Y. Cai, M. Negrello, A. Celotti, G. De Zotti, L. Danese  
*Astrophys. J.*, v.782, p.69- (2014)
- *A Physical Model for the Evolving Ultraviolet Luminosity Function of High Redshift Galaxies and their Contribution to the Cosmic Reionization*  
 Z.-Y. Cai, A. Lapi, A. Bressan, G. De Zotti, M. Negrello, L. Danese  
*Astrophys. J.*, v.785, p.65- (2014)
- *Herschel-ATLAS: modeling the first strong gravitational lenses*  
 S. Dye, M. Negrello, R. Hopwood, J. W. Nightingale, R. S. Bussmann, S. Amber, N. Bourne, A. Cooray, A. Dariush, L. Dunne, S. Eales, J. Gonzalez-Nuevo, E. Ibar, R. J. Ivison, S. Maddox, E. Valiante, M. Smith  
*Mon. Not. R. Astron. Soc.*, v.440, p.2013-2025 (2014)
- *Herschel-ATLAS: deep HST/WFC3 imaging of strongly lensed sub-millimeter galaxies*  
 M. Negrello, R. Hopwood, S. Dye, E. da Cunha, S. Serjeant, S. Fleuren, R. S. Bussmann, A. Cooray, H. Dannerbauer, J. Gonzalez-Nuevo, A. Lapi, A. Omont, S. Amber, R. Auld, M. Baes, S. Buttiglione, A. Cava, L. Danese, A. Dariush, G. De Zotti, L. Dunne, S. Eales, J. Fritz, E. Ibar, R. J. Ivison, S. Kim, S. Maddox, M. J. Michalowski, E. Pascale, M. Pohlen, E. Rigby, K. Rowlands, D. J. B. Smith, W. Sutherland, P. Temi, J. Wardlow  
*Mon. Not. R. Astron. Soc.*, v.440, p.1999-2012 (2014)
- *Exploring the early dust-obscured phase of galaxy formation with blind mid-/far-IR spectroscopic surveys*  
 M. Bonato, M. Negrello, Z.-Y. Cai, G. De Zotti, A. Bressan, A. Lapi, C. Gruppioni, L. Spinoglio, L. Danese  
*Mon. Not. R. Astron. Soc.*, v.438, p.2547-2564 (2014)
- *Cosmic dichotomy in the hosts of rapidly star-forming systems at low and high redshifts*

M. Magliocchetti, A. Lapi, M. Negrello, G. De Zotti, L. Danese  
*Mon. Not. R. Astron. Soc.*, v.437, p.2263-2269 (2014)

- ***PRISM (Polarized Radiation Imaging and Spectroscopy Mission): an extended white paper***  
PRISM Collaboration  
*Journal of Cosmology & Astroparticle Physics*, v.2, p.6- (2014)
- ***The Herschel Stripe 82 Survey (HerS): Maps and Early Catalog***  
M. Viero, V. Asboth, I. Roseboom, L. Moncelsi, G. Marsden, E. Mentuch Cooper, M. Zemcov, G. Addison, A. J. Baker, A. Beelen, J. Bock, C. Bridge A. Conley, M. Devlin, O. Dore, D. Farrah, S. Finkelstein, J. E. Font-Ribera, K. Gebhardt, A. Gill, J. Glenn, A. Hajian, M. Halpern, S. Jogee, P. Kurczynski, A. Lapi, M. Negrello, S. Oliver, C. Papovich, R. Quadri, N. Ross, D. Scott, B. Schulz, R. Somerville, D. Spergel, J. Vieira, L. Wang, R. Wechsler  
*Astrophys. J. Suppl.*, v.210, p.20- (2014)

### 2013

- ***A polarization survey of bright extragalactic AT20G sources***  
M. Massardi, S. G. Burke-Spolaor, T. Murphy, R. Ricci, M. Lopez-Caniego, M. Negrello, R. Chhetri, G. De Zotti, R. D. Ekers, R. B. Partridge, E. M. Sadler  
*Mon. Not. R. Astron. Soc.*, v.436, p.2915-2928 (2013)
- ***Gravitational Lens Models Based on Submillimeter Array Imaging of Herschel-selected Strongly Lensed Sub-millimeter Galaxies at  $z > 1.5$***   
R. S. Bussmann, I. Perez-Fournon, S. Amber, J. Calanog, M. Gurwell, H. Dannerbauer, F. De Bernardis, H. Fu, A. Harris, M. Krips, A. Lapi, R. Maiolino, A. Omont, D. Riechers, J. Wardlow, A. Baker, M. Birkinshaw, J. Bock, N. Bourne, D. Clements, A. Cooray, G. De Zotti, L. Dunne, S. Dye, S. Eales, D. Farrah, R. Gavazzi, J. Gonzalez-Nuevo, R. Hopwood, E. Ibar, R. J. Ivison, N. Laporte, S. Maddox, P. Martinez-Navajas, M. Michalowski, M. Negrello, S. J. Oliver, I. Roseboom, D. Scott, S. Serjeant, A. J. Smith, M. Smith, A. Streblyanska, E. Valiante, P. van der Werf, A. Verma, J. D. Vieira, L. Wang, D. Wilner  
*Astrophys. J.*, v.779, p.25- (2013)
- ***Far-infrared spectroscopy of a lensed starburst: a blind redshift from Herschel***  
R. D. George, R. J. Ivison, R. Hopwood, D. A. Riechers, R. S. Bussmann, P. Cox, S. Dye, M. Krips, M. Negrello, R. Neri, S. Serjeant, I. Valtchanov, M. Baes, N. Bourne, D.~L. Clements, G. De Zotti, L. Dunne, S. Eales, E. Ibar, S. Maddox, M. W. L. Smith, Valiante, E.; van der Werf, P.  
*Mon. Not. R. Astron. Soc.*, v.436, p.99-103 (2013)
- ***Herschel-ATLAS: A Binary HyLIRG Pinpointing a Cluster of Starbursting Protoellipticals***  
R. J. Ivison, A. M. Swinbank, I. Smail, A. Harris, R. S. Bussmann, A. Cooray, P. Cox, H. Fu, A. Kovacs, M. Krips, D. Narayanan, M. Negrello + 39 coauthors  
*Astrophys. J.*, v.772, p.137- (2013)

- *Herschel-ATLAS/GAMA: the environmental density of far-infrared bright galaxies at  $z < 0.5$*   
 C. S. Burton, M. Jarvis, D. J. B. Smith, D. Bonfield, M. J. Hardcastle, J. A. Stevens, N. Bourne, M. Baes, S. Brough, A. Cava, A. Cooray, A. Dariush, G. De Zotti, L. Dunne, S. Eales, R. Hopwood, E. Ibar, R. J. Ivison, J. Liske, J. Loveday, S. Maddox, M. Negrello, M. W. L. Smith, E. Valiante  
*Mon. Not. R. Astron. Soc.*, v.433, p.771-786 (2013)
- *The rapid assembly of an elliptical galaxy of 400 billion solar masses at a redshift of 2.3*  
 H. Fu, A. Cooray, C. Feruglio, R. J. Ivison, D. A. Riechers, M. Gurwell, R. S. Busmann, A. Harris, B. Altieri, H. Aussel, A. Baker, J. Bock, M. Boylan-Kolchin, C. Bridge, J. A. Calanog, C. M. Casey, A. Cava, S. C. Chapman, D. L. Clements, A. Conley, P. Cox, D. Farrah, D. Frayer, R. Hopwood, J. Jia, G. Magdis, G. Marsden, P. Martinez-Navajas, M. Negrello, R. Neri, S. J. Oliver, A. Omont, M. J. Page, I. Perez-Fournon, B. Schulz, D. Scott, A. Smith, M. Vaccari, I. Valtchanov, J. D. Vieira, M. Viero, L. Wang, J. L. Wardlow, M. Zemcov  
*Nature*, v.498, p.338-341 (2013)
- *A hybrid model for the evolution of galaxies and active galactic nuclei in the infrared*  
 Z.-Y. Cai, A. Lapi, J.-Q. Xia, G. De Zotti, M. Negrello, C. Gruppioni, E. Rigby, G. Castex, J. Delabrouille, L. Danese  
*Astrophys. J.*, v.768, p.21-45 (2013)
- *Dust and star formation properties of a complete sample of local galaxies drawn from the Planck Early Release Compact Source Catalogue*  
 M. Clemens, M. Negrello, G. De Zotti, J. Gonzalez-Nuevo, L. Bonavera, G. Cosco, G. Guarese, L. Boaretto, P. Salucci, C. Baccigalupi, D. L. Clements, L. Danese, A. Lapi, N. Mandolesi, R. B. Partridge, F. Perrotta, S. Serjeant, D. Scott, L. Toffolatti  
*Mon. Not. R. Astron. Soc.*, v.433, p.695-711 (2013)
- *The local luminosity function of star-forming galaxies derived from the Planck Early Release Compact Source Catalogue*  
 M. Negrello, M. Clemens, J. Gonzalez-Nuevo, G. De Zotti, L. Bonavera, G. Cosco, G. Guarese, L. Boaretto, S. Serjeant, L. Toffolatti, A. Lapi, M. Bethermin, G. Castex, D. L. Clements, J. Delabrouille, H. Dole, A. Franceschini, N. Mandolesi, L. Marchetti, B. Partridge, A. Sajina  
*Mon. Not. R. Astron. Soc.*, v.429, p.1309-1323 (2013)
- *H<sub>2</sub>O emission in high-z ultra-luminous infrared galaxies*  
 A. Omont, C. Yang, P. Cox, R. Neri, A. Beelen, R. S. Busmann, R. Gavazzi, P. van der Werf, D. Riechers, D. Downes, M. Krips, S. Dye, R. Ivison, J. Vieira, A. Weiss, J. Aguirre, M. Baes, A. Baker, F. Bertoldi, A. Cooray, H. Dannerbauer, G. De Zotti, S. Eales, H. Fu, Y. Gao, M. Guelin, A. Harris, M. Jarvis, M. Lehnert, L. Leeuw, R. Lupu, K. Menten, M. Michalowski, M. Negrello + 16 coauthors  
*Astron. & Astrophys.*, v.551, p.115-126 (2013)
- *Mining the Herschel-Astrophysical Terahertz Large Area Survey: submillimetre-selected blazars in equatorial fields*  
 M. Lopez-Caniego, J. Gonzalez-Nuevo, M. Massardi, L. Bonavera, D. Herranz, M. Negrello, G. De Zotti, F. J. Carrera, L. Danese, S. Fleuren, M. Hardcastle, M. Jarvis, H.-

R. Klockner, T. Mauch, P. Procopio, S. Righini, W. Sutherland, R. Auld, M. Baes, S. Buttiglione, C. J. Clark, A. Cooray, A. Dariush, L. Dunne, S. Dye, S. Eales, R. Hopwood, C. Hoyos, E. Ibar, R. Ivison, S. Maddox, E. Valiante  
*Mon. Not. R. Astron. Soc.*, v.430, p.1566-1577 (2013)

▪ *HerMES: Candidate Gravitationally Lensed Galaxies and Lensing Statistics at Submillimeter Wavelengths*

J. L. Wardlow, A. Cooray, F. De Bernardis, A. Amblard, V. Arumugam, H. Aussel, A. J. Baker, M. Bethermin, R. Blundell, J. Bock, A. Boselli, C. Bridge, V. Buat, D. Burgarella, S. Bussmann, A. Cabrera-Lavers, J. Calanog, J. Carpenter, C. M. Casey, N. Castro-Rodriguez, A. Cava, P. Chanial, E. Chapin, S. C. Chapman, D. L. Clements, A. Conley, P. Cox, C. D. Dowell, S. Dye, S. Eales, D. Farrah, P. Ferrero, A. Franceschini, D. T. Frayer, C. Frazer, H. Fu, R. Gavazzi, J. Glenn, E. A. Gonzalez Solares, M. Griffin, M. A. Gurwell, A. Harris, E. Hatziminaoglou, R. Hopwood, A. Hyde, E. Ibar, R. J. Ivison, S. Kim, G. Lagache, L. Levenson, L. Marchetti, G. Marsden, P. Martinez-Navajas, M. Negrello +32 coauthors  
*Astrophys. J.*, v.762, p.59- (2013)

▪ *Herschel-ATLAS: Planck sources in the phase 1 fields*

D. Herranz, J. Gonzalez-Nuevo, D. Clements, G. De Zotti, M. Lopez-Caniego, A. Lapi, G. Rodighiero, L. Danese, H. Fu, A. Cooray, M. Baes, G. Bendo, L. Bonavera, F. Carrera, H. Dole, S. Eales, R. Ivison, M. Jarvis, G. Lagache, M. Massardi, M. Michalowski, M. Negrello, E. Rigby, D. Scott, E. Valiante, I. Valtchanov, P. Van der Werf, R. Auld, S. Buttiglione, A. Dariush, L. Dunne, R. Hopwood, C. Hoyos, E. Ibar, S. Maddox  
*Astron. & Astrophys.*, v.549, p.31- (2013)

2012

▪ *A Detailed Gravitational Lens Model Based on Submillimeter Array and Keck Adaptive Optics Imaging of a Herschel-ATLAS Submillimeter Galaxy at  $z = 4.243$*

R. S. Bussmann, M. A. Gurwell, H. Fu, D. J. B. Smith, S. Dye, R. Auld, M. Baes, A. J. Baker, D. Bonfield, A. Cava, D. L. Clements, A. Cooray, K. Coppin, H. Dannerbauer, A. Dariush, G. De Zotti, L. Dunne, S. Eales, J. Fritz, R. Hopwood, E. Ibar, R. J. Ivison, M. J. Jarvis, S. Kim, L. Leeuw, S. Maddox, M. J. Michalowski, M. Negrello + 10 coauthors  
*Astrophys. J.*, v.756, p.134-144 (2012)

▪ *Effective Models for Statistical Studies of Galaxy-scale Gravitational Lensing*

A. Lapi, M. Negrello, J. Gonzalez-Nuevo, Z.-Y. Cai, G. De Zotti, L. Danese  
*Astrophys. J.*, v.755, p.46-64 (2012)

▪ *A Comprehensive View of a Strongly Lensed Planck-Associated Submillimeter Galaxy*

H. Fu, E. Jullo, A. Cooray, R. S. Bussmann, R. J. Ivison, I. Perez-Fournon, S. G. Djorgovski, N. Scoville, L. Yan, D. A. Riechers, J. Aguirre, R. Auld, M. Baes, A. J. Baker, M. Bradford, A. Cava, D.~L. Clements, H. Dannerbauer, A. Dariush, G. De Zotti, H. Dole, L. Dunne, S. Dye, S. Eales, D. Frayer, R. Gavazzi, M. Gurwell, A. I. Harris, D. Herranz, R. Hopwood, C. Hoyos, E. Ibar, M. J. Jarvis, S. Kim, L. Leeuw, R. Lupu, S. Maddox, P. Martinez-Navajas, M. J. Michalowski, M. Negrello + 11 coauthors  
*Astrophys. J.*, v.753, p.134-145 (2012)

- *Blind Detections of CO J = 1-0 in 11 H-ATLAS Galaxies at z = 2.1-3.5 with the GBT/Zspectrometer*  
 A. I. Harris, A. J., Baker, D. T. Frayer, I. Smail, A. M. Swinbank, D. A. Riechers, P. P. van der Werf, R. Auld, M. Baes, R.~S. Bussmann, S. Buttiglione, A. Cava, D. L. Clements, A. Cooray, H. Dannerbauer, A. Dariush, G. De Zotti, L. Dunne, S. Dye, S. Eales, J. Fritz, J. Gonzalez-Nuevo, R. Hopwood, E. Ibar, R. J. Ivison, M. J. Jarvis, S. Maddox, M. Negrello, E. Rigby, D. J. B. Smith, P. Temi, J. Wardlow  
*Astrophys. J.*, v.752, p.152-165 (2012)
- *Clustering of submillimetre galaxies in a self-regulated baryon collapse model*  
 J.-Q. Xia, M. Negrello, A. Lapi, G. De Zotti, G. Danese, M. Viel  
*Mon. Not. R. Astron. Soc.*, v.422, p.1324-1331 (2012)
- *Herschel-ATLAS: Toward a Sample of ~1000 Strongly Lensed Galaxies*  
 J. Gonzalez-Nuevo, A. Lapi, S. Fleuren, S. Bressan, L. Danese, G. De Zotti, M. Negrello  
 +35 coauthors  
*Astrophys. J.*, v.749, p.65-76 (2012)
- *Measurements of CO Redshifts with Z-Spec for Lensed Submillimeter Galaxies Discovered in the H-ATLAS Survey*  
 R. E. Lupu, K. S. Scott, J. E. Aguirre, I. Aretxaga, R. Auld, E. Barton, A. Beelen, F. Bertoldi, J. J. Bock, D. Bonfield, C. M. Bradford, S. Buttiglione, A. Cava, D. L. Clements, J. Cooke, A. Cooray, H. Dannerbauer, A. Dariush, G. De Zotti, L. Dunne, S. Dye, S. Eales, D. Frayer, J. Fritz, J. Glenn, D. H. Hughes, E. Ibar, R. J. Ivison, M. J. Jarvis, J. Kamenetzky, S. Kim, G. Lagache, L. Leeuw, S. Maddox, P. R. Maloney, H. Matsuhara, E. J. Murphy, B. J. Naylor, M. Negrello + 14 coauthors  
*Astrophys. J.*, v.757, p.135-163 (2012)
- *Herschel-ATLAS: VISTA VIKING near-infrared counterparts in the Phase-1 GAMA 9-h data*  
 S. Fleuren, W. Sutherland, L. Dunne, D. J. B. Smith, S. Maddox, J. Gonzalez-Nuevo, J. Findlay, R. Auld, M. Baes, N. A. Bond, D. G. Bonfield, N. Bourne, A. Cooray, S. Buttiglione, A. Cava, A. Dariush, G. De Zotti, S. Driver, S. Dye, S. Eales, J. Fritz, M. L. P. Gunawardhana, R. Hopwood, E. Ibar, R. J. Ivison, M. J. Jarvis, L. Kelvin, A. Lapi, J. Liske, M. J. Michalowski, M. Negrello + 10 coauthors  
*Mon. Not. R. Astron. Soc.*, v.423, p.2407-2424 (2012)

## 2011

- *Herschel-Astrophysical Terahertz Large Area Survey: detection of a far-infrared population around galaxy clusters*  
 K. E. K. Coppin, J. E. Geach, I. Smail, L. Dunne, A. C. Edge, R. J. Ivison, S. Maddox, R. Auld, M. Baes, S. Buttiglione, A. Cava, D. L. Clements, A. Cooray, A. Dariush, G. de Zotti, S. Dye, S. Eales, J. Fritz, R. Hopwood, E. Ibar, M. Jarvis, M. Michalowski, D. N. A. Murphy, M. Negrello +9 coauthors  
*Mon. Not. R. Astron. Soc.*, v.416, p.680-688 (2011)
- *Herschel-ATLAS Galaxy Counts and High Redshift Luminosity Functions: The Formation of Massive Early Type Galaxies*



- A. Lapi, J. Gonzalez-Nuevo, L. Fan, A. Bressan, G. De Zotti, L. Danese, M. Negrello +31 coauthors  
*Astrophys. J.*, v.724, p.24-44 (2011)
- ***Gas and dust in a submillimeter galaxy at  $z = 4.24$  from the Herschel ATLAS***  
 P. Cox P., M. Krips, R. Neri, A. Omont, R. Gusten, K. M. Menten, F. Wyrowski, A. Weiss, A. Beelen, M. Gurwell, H. Dannerbauer, R. Ivison, M. Negrello +29 coauthors  
*Astrophys. J.*, v.740, p.63-72 (2011)
  - ***Physical conditions of the interstellar medium of high-redshift, strongly lensed submillimetre galaxies from the Herschel-ATLAS***  
 I. Valtchanov, J. Virdee, R. J. Ivison, B. Swinyard, P. van der Werf, D. Rigopoulou, E. da Cunha, R. Lupu, D. J. Benford, D. Riechers, I. Smail, M. Jarvis, C. Pearson, H. Gomez, R. Hopwood, B. Altieri, M. Birkinshaw, D. Coia, L. Conversi, A. Cooray, G. de Zotti, L. Dunne, D. Frayer, L. Leeuw, A. Marston, M. Negrello +28 coauthors  
*Mon. Not. R. Astron. Soc.*, v.415, p.3473-3484 (2011)
  - ***Herschel-ATLAS: first data release of the Science Demonstration Phase source catalogues***  
 E. E. Rigby, S. J. Maddox, L. Dunne, M. Negrello +27 coauthors  
*Mon. Not. R. Astron. Soc.*, v.415, p.2336-2348 (2011)
  - ***Observation of  $H_2O$  in a strongly lensed Herschel-ATLAS source at  $z = 2.3$***   
 A. Omont, R. Neri, P. Cox, R. Lupu, M. Guelin, P. van der Werf, A. Weiss, R. Ivison, M. Negrello +48 coauthors  
*Astron. & Astrophys. Letter*, v.530, L3+ (2011)
  - ***Spitzer Imaging of Herschel-ATLAS Gravitationally Lensed Submillimeter Sources***  
 R. Hopwood, J. Wardlow, A. Cooray, A. A. Khostovan, S. Kim, M. Negrello, E. da Cunha, D. Burgarella, I. Aretxaga, R. Auld, M. Baes, E. Barton, F. Bertoldi, D. Bonfield, R. Blundell, S. Buttiglione, A. Cava, D. L. Clements, J. Cooke, H. Dannerbauer, A. Dariush, G. De Zotti, L. Dunne, S. Dye, S. Eales, J. Fritz, D. Frayer, M. Gurwell, D. H. Hughes, E. Ibar, R. Ivison, M. Jarvis, G. Lagache, L. Leeuw, S. Maddox, M. J. Michalowski, A. Omont, E. Pascale, M. Pohlen, E. Rigby, G. Rodighiero, D. Scott, S. Serjeant, D. J. B. Smith, I. Smail, P. Temi, M. Thompson, I. Valtchanov, P. van der Werf, A. Verma, J.D. Vieira  
*Astrophys. J. Letter*, v.728, 4 (2011)
  - ***GBT Zpectrometer CO(1-0) Observations of the Strongly-Lensed Submillimeter Galaxies from the Herschel ATLAS***  
 D. T. Frayer, A. I. Harris, A. J. Baker, R. J. Ivison, Ian Smail, M. Negrello, R. Maddalena, A. Amblard, R. Auld, M. Baes, M. Birkinshaw, D. G. Bonfield, D. Burgarella, S. Buttiglione, A. Cava, D. L. Clements, A. Cooray, H. Dannerbauer, A. Dariush, G. De Zotti, J. S. Dunlop, L. Dunne, S. Dye, S. Eales, J. Fritz, J. Gonzalez-Nuev, D. Herranz, R. Hopwood, E. Ibar, M. J. Jarvis, G. Lagache, L. L. Leeuw, M. Lopez-Caniego, S. Maddox, M. J. Michalowski, A. Omont, E. Pascale, M. Pohlen, E. Rigby, G. Rodighiero, S. Samui, D. Scott, S. Serjeant, B. Sibthorpe, D. J. B. Smith, A. M. Swinbank, P. Temi, M. Thompson, I. Valtchanov, P. P. van der Werf, A. Verma  
*Astrophys. J. Letter*, v.726, 22 (2011)

- *Far-infrared luminosity function of local star-forming galaxies in the AKARI Deep Field-South*  
C. Sedgwick, S. Serjeant, C. Pearson, S. Matsuura, M. Shirahata, S. Oyabu, T. Goto, H. Matsuhara, D. Clements, M. Negrello, G. White  
*Mon. Not. R. Astron. Soc.*, v.416, p.680 (2011)

## 2010

- *The Detection of a Population of Submillimeter-Bright, Strongly-Lensed Galaxies*  
M. Negrello, R. Hopwood, G. De Zotti, +86 coauthors  
*Science*, v.330, 800 (2010)
- *Herschel-ATLAS: blazars in the SDP field*  
J. Gonzalez-Nuevo, J., G. De Zotti, P. Andreani, E. J. Barton, F. Bertoldi, M. Birkinshaw, L. Bonavera, S. Buttiglione, J. Cooke, A. Cooray, G. Danese, L. Dunne, S. Eales, L. Fan, M. J. Jarvis, H. Klockner, E. Hatziminaoglou, D. Herranz, D. H. Hughes, A. Lapi, A. Lawrence, L. Leeuw, M. Lopez-Caniego, M. Massardi, T. Mauch, M. J. Michalowski, M. Negrello +30 coauthors  
*Astron. & Astrophys. Letter*, v.518, L38+ (2010)
- *Herschel ATLAS: The angular correlation function of submillimetre galaxies at high and low redshift*  
S. Maddox, L. Dunne, E. Rigby, S. Eales, A. Cooray, D. Scott, J. A. Peacock, M. Negrello, +31 coauthors  
*Astron. & Astrophys. Letter*, v.518, L11+ (2010)
- *The Herschel-ATLAS: Extragalactic Number Counts from 250 to 500 Microns*  
D. L. Clements, E. Rigby, S. Maddox, L. Dunne, A. Mortier, C. Pearson, A. Amblard, R. Auld, M. Baes, D. Bonfield, D. Burgarella, S. Buttiglione, A. Cava, A. Cooray, A. Dariush, G. De Zotti, S. Dye, S. Eales, D. Frayer, J. Fritz, J. P. Gardner, J. Gonzalez-Nuevo, D. Herranz, E. Ibar, R. Ivison, M. J. Jarvis, G. Lagache, L. Leeuw, M. Lopez-Caniego, M. Negrello, E. Pascale, M. Pohlen, G. Rodighiero, S. Samui, S. Serjeant, B. Sibthorpe, D. Scott, D. J. B. Smith, P. Temi, M. Thompson, I. Valtchanov, P. van der Werf, A. Verma  
*Astron. & Astrophys. Letter*, v.518, L8+ (2010)
- *Ultra Deep Akari Observations of Abell 2218: Resolving the 15 $\mu$ m Extragalactic Background Light*  
R. Hopwood, S. Serjeant, M. Negrello, C. Pearson, E. Egami, M. Im, J.-P. Kneib, J. Ko, H. M. Lee, M. G. Lee, H. Matsuhara, T. Nakagawa, I. Smail, T. Takagi  
*Astrophys. J. Letter*, v.716, p.45-50 (2010)
- *Herschel-ATLAS: far-infrared properties of radio-selected galaxies*  
M. J. Hardcastle, J. S. Virdee, M. J. Jarvis, D. G. Bonfield, L. Dunne, S. Rawlings, J. A. Stevens, N. M. Christopher, I. Heywood, T. Mauch, D. Rigopoulou, A. Verma, I. K. Baldry, S. P. Bamford, S. Buttiglione, A. Cava, D. L. Clements, A. Cooray, S. M. Croom, A. Dariush, G. De Zotti, S. Eales, J. Fritz, D. T. Hill, D. Hughes, R. Hopwood, E. Ibar, R. J. Ivison, D. H. Jones, J. Loveday, S. J. Maddox, M. J. Michalowski, M. Negrello, P. Norberg, M. Pohlen, M. Prescott, E. E. Rigby, A. S. G. Robotham, G. Rodighiero, D. Scott, R. Sharp, D. J. B. Smith, P. Temi, E. van Kampen

*Mon. Not. R. Astron. Soc.*, v.409, p.122-131 (2010)

- ***Herschel-ATLAS: the far-infrared-radio correlation at  $z < 0.5$***   
M. J. Jarvis, D. J. B. Smith, D. G. Bonfield, M.~J. Hardcastle, J. T. Falder, J. A. Stevens, R. J. Ivison, R. Auld, M. Baes, I. K. Baldry, S. P. Bamford, N. Bourne, S. Buttiglione, A. Cava, A. Cooray, A. Dariush, G. De Zotti, J. S. Dunlop, L. Dunne, S. Dye, S. Eales, J. Fritz, D. T. Hill, R. Hopwood, D. H. Hughes, E. Ibar, D. H. Jones, L. Kelvin, A. Lawrence, L. Leeuw, J. Loveday, S. J. Maddox, M. J. Michalowski, M. Negrello, + 14 coauthors  
*Mon. Not. R. Astron. Soc.*, v.409, p.92-101 (2010)
- ***A search for debris disks in the Herschel-ATLAS***  
M. A. Thompson, D. J. B. Smith, J. A. Stevens, M. J. Jarvis, E. Vidal, Perez, J. Marshall, L. Dunne, S. Eales, G. J. White, L. Leeuw, B. Sibthorpe, M. Baes, E. Gonzalez-Solares, D. Scott, J. Vieira, A. Amblard, R. Auld, D. G. Bonfield, D. Burgarella, S. Buttiglione, A. Cava, D. L. Clements, A. Cooray, A. Dariush, G. De Zotti, S. Dye, S. Eales, D. Frayer, J. Fritz, J. Gonzalez-Nuevo, D. Herranz, E. Ibar, R. J. Ivison, G. Lagache, M. Lopez-Caniego, S. Maddox, M. Negrello, E. Pascale, M. Pohlen, E. Rigby, G. Rodighiero, S. Samui, S. Serjeant, P. Temi, I. Valtchanov, A. Verma  
*Astron. & Astrophys. Letter*, v.518, L134+ (2010)
- ***Herschel-ATLAS: The dust energy balance in the edge-on spiral galaxy UGC 4754***  
M. Baes, J. Fritz, D. A. Gadotti, D. J. B. Smith, L. Dunne, E. da Cunha, A. Amblard, R. Auld, G. J. Bendo, D. Bonfield, D. Burgarella, S. Buttiglione, A. Cava, D. Clements, A. Cooray, A. Dariush, G. De Zotti, S. Dye, S. Eales, D. Frayer, J. Gonzalez-Nuevo, D. Herranz, E. Ibar, R. Ivison, G. Lagache, L. Leeuw, M. Lopez-Caniego, M. Jarvis, S. Maddox, M. Negrello +12 coauthors  
*Astron. & Astrophys. Letter*, v.518, L39+ (2010)
- ***Herschel-ATLAS: Evolution of the 250  $\mu\text{m}$  luminosity function out to  $z = 0.5$***   
Dye S., L. Dunne, S. Eales, D. J. B. Smith, A. Amblard, R. Auld, M. Baes, I. K. Baldry, S. Bamford, A. W. Blain, D. G. Bonfield, M. Bremer, D. Burgarella, S. Buttiglione, E. Cameron, A. Cava, D. L. Clements, A. Cooray, S. Croom, A. Dariush, G. De Zotti, S. Driver, J. S. Dunlop, D. Frayer, J. Fritz, J. P. Gardner, H. L. Gomez, J. Gonzalez-Nuevo, D. Herranz, D. Hill, A. Hopkins, E. Ibar, R. J. Ivison, M. J. Jarvis, D. H. Jones, L. Kelvin, G. Lagache, L. Leeuw, J. Liske, M. Lopez-Caniego, J. Loveday, S. Maddox, M. J. Michalowski, M. Negrello +24 coauthors  
*Astron. & Astrophys. Letter*, v.518, L10+ (2010)
- ***Herschel-ATLAS: Dust temperature and redshift distribution of SPIRE and PACS detected sources using submillimetre colours***  
A. Amblard, A. Cooray, P. Serra, P. Temi, E. Barton, M. Negrello, +66 coauthors  
*Astron. & Astrophys. Letter*, v.518, L9+ (2010)
- ***Herschel-ATLAS: The cosmic star formation history of quasar host galaxies***  
S. Serjeant, F. Bertoldi, A. W. Blain, D. L. Clements, A. Cooray, L. Danese, J. Dunlop, L. Dunne, S. Eales, J. Falder, E. Hatziminaoglou, D. H. Hughes, E. Ibar, M. J. Jarvis, A. Lawrence, M. G. Lee, M. Michalowski, M. Negrello, +35 coauthors  
*Astron. & Astrophys. Letter*, v.518, L7+ (2010)

- *The Herschel ATLAS*  
S. Eales, L. Dunne, D. Clements, A. Cooray, G. De Zotti, S. Dye, R. Ivison, M. Jarvis, G. Lagache, S. Maddox, M. Negrello, S. Serjeant, M. A. Thompson, +84 coauthors  
*Publ. Astron. Soc. Pac.*, v.122, p.499-515 (2010)
- *The AGN fraction of submm-selected galaxies and contributions to the submm/mm-wave extragalactic background light*  
S. Serjeant, M. Negrello, C. P. Pearson, A. Mortier, J. Austermann, I. Aretxaga, D. Clements, S. Chapman, S. Dye, J. Dunlop, L. Dunne, D. Farrah, D. Hughes, H. M. Lee, H. Matsuhara, E. Ibar, M. Im, W. S. Jeong, S. Kim, S. Oyabu, T. Takagi, T. Wada, G. Wilson, M. Vaccari, M. Yun  
*Astron. & Astrophys.*, v.514, p.A10+ (2010)
- *The AKARI FU-HYU Galaxy Evolution Program: First Results from the GOODS-N field*  
C. P. Pearson, S. Serjeant, M. Negrello, T. Takagi, W.-S. Jeong, H. Matsuhara, T. Wada, S. Oyabu, H.M. Lee, and M.S. Im  
*Astron. & Astrophys.*, v.514, p.A9+ (2010)
- *A model for the cosmological evolution of low-frequency radio sources*  
M. Massardi, A. Bonaldi, M. Negrello, S. Ricciardi, A. Raccanelli, G. De Zotti  
*Mon. Not. R. Astron. Soc.*, v.404, p.532-544 (2010)
- *Radio and millimeter continuum surveys and their astrophysical implications*  
G. De Zotti, M. Massardi, M. Negrello, J. Wall  
*Astron. & Astrophys. Rev.*, v.18, p.1-65 (2010)
- *AzTEC half square degree survey of the SHADES fields - I. Maps, catalogue and source counts*  
J. E. Austermann, J. S. Dunlop, T. A. Perera, K. S. Scott, G. W. Wilson, I. Aretxaga, D. H. Hughes, O. Almaini, E. L. Chapin, S. C. Chapman, M. Cirasuolo, D. L. Clements, K. E. K. Coppin, L. Dunne, S. Dye, S. A. Eales, E. Egami, D. Farrah, D. Ferrusca, S. Flynn, D. Haig, M. Halpern, E. Ibar, R. J. Ivison, E. van Kampen, Y. Kang, S. Kim, C. Lacey, J. D. Lowenthal, P. D. Mauskopf, R. J. McLure, A. M. J. Mortier, M. Negrello, S. Oliver, J. A. Peacock, A. Pope, S. Rawlings, G. Rieke, I. Roseboom, M. Rowan-Robinson, D. Scott, S. Serjeant, I. Smail, A. M. Swinbank, J. A. Stevens, M. Velazquez, J. Wagg, M. S. Yun  
*Mon. Not. R. Astron. Soc.*, v.401, p.160-176 (2010)

## 2009

- *BLAST: Correlations in the Cosmic Far-Infrared Background at 250, 350, and 500 microns Reveal Clustering of Star-Forming Galaxies*  
M. P. Viero, P. A. R. Ade; J. J. Bock, E. L. Chapin, M. J. Devlin, M. Griffin, J. O. Gundersen, M. Halpern, P. C. Hargrave, D. H. Hughes, J. Klein, C. J. MacTavish, G. Marsden, P. G. Martin, P. Mauskopf, L. Monceli, M. Negrello, C. B. Netterfield, L. Olmi, E. Pascale, G. Patanchon, M. Rex, D. Scott, C. Semisch, N. Thomas, M. D. P. Truch, C. Tucker, G. S. Tucker, D. V. Wiebe  
*Astroph. J.*, v.707, p.1766-1778 (2009)

- *On the Nature of the First Galaxies Selected at 350  $\mu\text{m}$*   
S. A. Khan, P. F. Chianal, S. P. Willner, C. P. Pearson, M. L. N Ashby, D. J. Benford, D. L. Clements, S. Dye, D. Farrah, G. G. Fazio, J. S. Huang, V. Leboutteiller, E. Le Floc'h, G. Mainetti, S. H. Moseley, M. Negrello, S. Serjeant, R. A. Shafer, J. Staguhn, T. J. Sumner, M. Vaccari  
*Astrophys. J.*, v.706, 319-327 (2009)

- *Photometric redshifts accuracy in AKARI Deep Surveys*  
M. Negrello, S. Serjeant, C. Pearson, T. Takagi, A. Efstathiou, T. Goto, D. Burgarella, W.-S. Jeong, M. Im, H. M. Lee, H. Matsuhara, S. Oyabu, T. Wada, G. White  
*Mon. Not. R. Astron. Soc.*, v.394, p.375-397 (2009)

## 2008

- *A reassessment of the evidence of the Integrated Sachs-Wolfe effect through the WMAP-NVSS correlation*  
A. Raccanelli, A. Bonaldi, M. Negrello, S. Matarrese, G. Tormen, G. De Zotti  
*Mon. Not. R. Astron. Soc.*, v.386, p.2161-2166 (2008)

## 2007

- *Astrophysical and Cosmological Information from Large-scale sub-mm Surveys of Extragalactic Sources*  
M. Negrello, F. Perrotta, J. Gonzalez-Nuevo, L. Silva, G. De Zotti, G. L. Granato, C. Baccigalupi, L. Danese  
*Mon. Not. R. Astron. Soc.*, v. 377, p. 1557-1568 (2007)

## 2006

- *The large scale clustering of radiosources*  
M. Negrello, M. Magliocchetti, G. De Zotti  
*Mon. Not. R. Astron. Soc.*, v.368, p.935-942 (2006)

## 2005

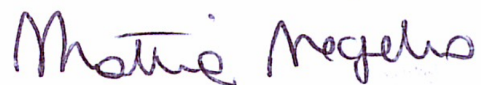
- *Extragalactic source contributions to arminute-scale Cosmic Microwave Background anisotropies*  
L. Toffolatti, M. Negrello, J. Gonzalez-Nuevo, G. De Zotti, L. Silva, G. L. Granato & F. Argueso  
*Astron. & Astrophys.*, v.438, p.475-480 (2005)
- *Effect of clustering on extragalactic source counts with low resolution instruments*  
M. Negrello, J. Gonzalez-Nuevo, M. Magliocchetti, L. Moscardini, G. De Zotti, L. Toffolatti & L. Danese  
*Mon. Not. R. Astron. Soc.*, v.358, p.869-874 (2005)

## 2004

- *Confusion noise at far-infrared to millimetre wavelengths*  
M. Negrello, M. Magliocchetti, L. Moscardini, G. De Zotti, G. L. Granato & L. Silva  
*Mon. Not. R. Astron. Soc.*, v.352, p.493-500 (2004)

- *The Asiago-ESO/RASS QSO survey. III. Clustering analysis and theoretical interpretation*  
A. Grazian, M. Negrello, L. Moscardini, S. Cristiani, M. G. Haehnelt, S. Matarrese, A. Omizzolo & E. Vanzella  
*Astron. J.*, v.127, p.592-605 (2004)

Rovigo, 21/04/2015



Dr Mattia Negrello  
INAF - Osservatorio Astronomico di Padova  
Vicolo dell'Osservatorio 5  
35122 Padova, Italy

e-mail:

phone: