

STEFANO ETTORI

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PERSONAL DATA

Born on 28 Nov 1967 in Milano (Italy); I live with my partner Anna Vezzoli and our two children, Sara (born in 1998) and Carlo (2000)

RESEARCH ACTIVITY

Formation and Evolution of Galaxy Clusters and Superclusters, Observational Cosmology

PROFESSIONAL EXPERIENCE

2004-present	Staff Researcher at INAF-OA, Bologna (It)
2008-present	Research Associate at INFN, <i>Gruppo 4</i> , Bologna (It)
Aug 2012	Visiting Scientist at Harvard-Smithsonian, Center for Astrophysics, Cambridge (MA, US)
2001-2004	Fellow at ESO, Garching (Germany)
1998-2001	Research Associate at IoA, Cambridge (UK)
1995-1998	PhD student at Institute of Astronomy, Cambridge (UK)
1994-1995	<i>Associate</i> for 10 months at ESO, Garching (Germany)
1993	one-year Civil Service at the cultural association <i>ARCINOVA</i> in Milano, involved particularly in the activity of the literary agency <i>ICRA</i>
1987-1994	tutor of high-school students in Mathematics, Physics and Chemistry

EDUCATION

Ph.D.	1995-98	Churchill College and Institute of Astronomy, Cambridge (UK) Thesis Title: <i>Studies of the distribution of the gas in clusters and superclusters of galaxies</i> Supervisor: <i>Professor A.C. Fabian</i>
Degree	1993	Physics Thesis Title: (trasl.) <i>A study of the distribution of galaxies at the South Galactic Pole</i> Advisors: <i>Professor G. Chincarini and Dr L. Guzzo</i>
University	1989-93	Physics, State University of Milano (Italy)
	1986-88	Electronic Engineering, Polytechnic of Milano (Italy)
Diplome	1986	Humanities Studies (Liceo Classico) <i>G. Berchet</i> , Milano (Italy)

HONORS: **2001-2004** European Southern Observatory Postdoctoral Fellowship; **1999-2001** Research Fellowship at Darwin College, Cambridge (UK); **1998** *Montaigne* scholarship from the “Alfred Toepfer Stiftung F.V.S.”; **1996-1997** *PPARC* postgraduate studentship award and Cambridge European Trust award; **1994** in July, *EEC Human Capital and Mobility fellowship* for the 35th Herstmonceux Conference at Cambridge (UK); **1984** High School studentship as third-year best student.

PROFESSIONAL ACTIVITY

SERVICE:

- Referee for scientific journals (A&A, ApJ, MNRAS, PASJ)
- Referee for: Austrian Science Fund; GIF German-Israeli Foundation for Scientific Research and Development; Estonian Research Council
- Member of the Editorial Board of ISRN Astronomy and Astrophysics journal (2010-2012)
- Member of the International Astronomical Union (2006-present)
- Time Allocation Committees (TAC): panel member for *XMM-Newton* and *Chandra*; external Referee for *TNG* and *Subaru*
- Scientific Organization Committees (SOC): chair at *The mass profiles of galaxy clusters from the core to the outskirts*, Madonna di Campiglio (It), Mar 2013; member at *Half a century of X-ray Astronomy*, Mykonos (Gr), Sep 2012
- Panel member for commissions selecting Post-Docs at INAF-OA Bologna and Dipartimento di Astronomia at Bologna University
- X-ray Space Missions: chair of Science Working Group on “Group and cluster physics” for *Athena+* (ESA Large) mission; member of *Science Definition Team* for *Athena* (ESA Large) mission; responsible for science on galaxy clusters for *EDGE–Xenia* (ESA Medium) mission
- *Euclid* (ESA Medium) mission: member of *Clusters Science Working Group*
- Member of the working group on “LSS and Cosmology” for *INAF Piano Triennale 2009-11*
- Team-leader of an international collaboration working on GCs at ISSI (Bern, CH) (2010)
- Book reviewers for *Giornale di Astronomia* (2011-present)
- Organizer of the webography on Astronomy for the Fondazione Biblioteca Europea di Informazione e Cultura (B.E.I.C.; 2010)
- Organizer of the “Thursday Seminars” at the Observatory/University in Bologna (2005-2010)
- Administrator, ESO science software for X-ray analysis (2001-2004) and calibration database at IoA, Cambridge (1998-2001)
- Science Secretary, ESO Observing Programs Committee (2002).

TEACHING & PUBLIC LECTURES:

- primary advisor for 3 graduate students (2008-2012: Cristiano De Boni; 2007-2009: Annamaria Donnarumma; 2006-2008: Andrea Morandi) and for undergraduate students (3 in 2006, 1 in 2008, 1 in 2011, 2 in 2012) at the University of Bologna
- lecturer of graduate/undergraduate courses at the Universities of Bologna, Milano, Cambridge (UK)
- 3-hrs lecture at “School of Astrophysics *Francesco Lucchin*, XI Cycle”, Bertinoro (It), May 8-13, 2011; 6-hrs lecture at “Graduate School in Astronomy, XV Special Courses”, Observatorio Nacional, Rio de Janeiro (Brasil), October 18-22, 2010
- Member of a Ph.D. thesis committee at the University of Copenhagen (Dk) (2011)
- speaker at *La Notte dei Ricercatori*, Bologna (2009); 1-hr public lecture at *Conferenze alla Specola*, Bologna (2008); 3-hrs lecture at *Settimana Astronomica*, Madonna di Campiglio (2007)

TIME ALLOCATED for Observing Programs:

XMM-Newton: 546 ks [col, AO12], 132+31 ks [PI+col, AO11], 21 ks [col, AO10], >74 ks [col, AO9], 120 ks [col, AO8], 106 ks [PI, AO7], 22+142 ks [PI+col, AO3], 45 ks [PI, AO1]; **Chandra:** 51 ks [col, AO15], 64 ks [col, AO14], 163 ks [col, AO13], 118 ks [col, AO12], 44 ks [col, AO11], 80 ks [PI, AO4], 200 ks [col, AO3]; **Suzaku:** 160 ks [col, AO7], 160 ks [col, AO5], 142 ks [col, AO3], 100 ks [col, AO1]; **Swift:** 420 ks [col, 2011], 300 ks [fill-in proposal, col]; **BeppoSAX:** 320+170 ks [PI+col, AO4], 320+350 ks [PI+col, AO3]; **VLT:** VIMOS/225 hrs [LP, col, appr. Jun 2010], VIMOS/20 hrs [col, Jun 2009]; **LBT:** Lucifer/2 hrs [col, May 2010]; **TNG:** Dolores/23 hrs [col, May 2010]; **Subaru:** Suprime-cam/1 night [col, May 2011].

FUNDING:

- **PRIN-INAF** (2012: 151.0 kEUR; **local PI**) on *A unique dataset to address the most compelling open questions about X-ray Galaxy Clusters* proposing to exploit an unprecedented wealth of data targeting several unresolved questions in cluster physics;
- **PICS** (2012: 15.0 kEUR; **col**) to support the collaboration between Italy and France on the project *XXL-The Ultimate XMM Extragalactic Survey*;
- **2010 Call for financial support to organize Team meetings at ISSI (25 kCHF): Team-leader** of an international collaboration working on galaxy clusters as astrophysical laboratories and cosmological probes that has obtained full financial support within the activities at the International Space Science Institute (ISSI) in Bern (CH);
- **contract ASI-INAF I/023/05/0 & I/009/10/0** (2005: 147.0 kEUR, 2006: 70.0 kEUR, 2010: 143.0 kEUR; **local PI**) on *Clusters of Galaxies in X-rays* focusing into two major lines of research: the first is devoted to a detailed study of the physics of the ICM in nearby clusters; the second deals with the study of average cluster properties and their evolution with redshift;
- **contract ASI I/088/06/0** (2007: 60.0 kEUR, 2008: 90.0 kEUR, 2009: 75.0 kEUR; **national PI**) on *Tracing the evolution of the physical properties in X-ray galaxy clusters* aiming to exploit the great deal of information contained in the Chandra and XMM-Newton archives to provide a consistent general picture of the physics of the ICM and its evolution with the cosmic time;
- **PRIN-INAF** (2009: 75.0 kEUR; **col**) on *Weighing galaxy clusters with strong and weak lensing* proposing to carry out an extensive study on the mass distribution in galaxy clusters from the outskirts to their inner regions;
- **Chandra Archival Proposal AO11** (2009: 55.0 kUSD; **col**) on *What are those clusters that do not have a radio halo?* in which we propose to analyze Chandra archival data on approximately 30 X-ray luminous clusters between $z = 0.2 - 0.4$ that constitute our GMRT radio halo survey; the grant supported a post-doc at CfA for 6 months that completed the work published in Cassano, Ettori et al. (2010 ApJL 721 L82);
- **PRIN-INAF** (2006: 50.0 kEUR; **local PI**) on *Observing and Modelling the Properties of Diffuse Baryons in Clusters of Galaxies* with the main objective to perform a comprehensive study of the physical properties of the ICM in a cosmological context;
- **Chandra Archival Proposal AO7** (2005: 52.5 kUSD; **col**) on *An Archival Study of the Metal Distribution and X-ray Scaling Relations in Galaxy Clusters at $0.1 < z < 0.7$* aiming to exploit the archived observations of galaxy clusters in the intermediate redshift range ($0.1 < z < 0.4$) as well as extending our high- z clusters sample ($z > 0.4$) in order to address a number of issues related to the statistics of their X-ray properties, with particular emphasis on the metal distribution; the grant supported a post-doc at CfA for 6 months that completed the work published in Baldi, Ettori et al. 2007 ApJ 666 835);
- **col** of funded projects in **PRIN-MIUR** 2008 (title: *Cosmology and Dark Energy with large galaxy survey*; 186 kEUR) and 2012 (title: *The dark Universe and Baryon cosmic evolution: from present surveys to Euclid*; 256 kEUR).

SEMINARS & TALKS (S=Seminars; I=Invited talk; C=Contributed talk; P=Poster):

2013 –

- [C] Bonn (Ge), *XXL consortium meeting*;
- [I] Sesto (It), *Tracing Cosmic Evolution with Clusters of Galaxies*;
- [I] Snowbird (UT, USA), *SnowCLUSTER – Physics of Galaxy Clusters*;

2012 –

- [I] Ringberg (Ge), *Workshop on galaxy clusters as cosmological probes*;
- [C] Mykonos (Gr), *Half a century of X-ray astronomy*;
- [S] HEAD lunch talk & Galaxy clusters meeting talk, Harvard-Smithsonian, Center for Astrophysics, Cambridge (MA, US);
- [I] Sesto (It), *Beyond Λ CDM: from dark matter halos to large-scale structures*;
- [S] Michigan State University, Physics and Astronomy Department, Lansing (MI, US);
- [C] Cervia (It), *Missing Baryons in the Local Universe*;
- [I] Madrid (Sp), *Galaxy Clusters as Giant Cosmic Laboratories*;
- [I] Roma (It), *Athena Italian Day*;

2011 –

- [C] Garmisch-Partenkirchen (Ge), *First eROSITA International Conference*;
- [C] Huntzville (US), *Cosmology with X-ray and Sunyaev-Zeldovich Effect Observations of Galaxy Clusters*;
- [S] Dark Cosmology Centre, University of Copenhagen (Dk);
- [I] Sesto (It), *A New Generation of Galaxy Clusters Surveys*;
- [C] Marseille (Fr), *The Cosmic Odyssey of Baryons*;
- [I] Garching (Ge), *1st Workshop on Athena*;
- [I] Meudon (Fr), *Workshop CIAS on Warm dark matter in galaxies*;
- [C] Santa Barbara (US), *workshop on Galaxy Clusters: the Crossroads of Astrophysics and Cosmology*;
- [S] University of Michigan, Department of Astronomy, Ann Arbor (Mi, US);
- [I] Rome (It), *IXO Science Meeting*;

2010 – [C] Garching (Ge), *Galaxy clusters: observations, physics and cosmology*; [I] Bremen (Ge), *38th COSPAR, event E17*; [I] Sesto (It), *The Future of Cosmology with Large-Scale Surveys*; [C] Kashiwa (Japan), *CL J2010+0628: from Massive Galaxy Formation to Dark Energy*; [C] Utrecht (NI), *High-resolution X-ray spectroscopy: past, present, and future*;

2009 – [I] Bologna (It), *The Wide Field X-Ray Telescope workshop*; [C] Potsdam (Ge), *Splinter meeting on Recent advances in cosmology*; [I] Sesto (It), *WFXT Collaboration Meeting*; [C] Paris (Fr), *Invisible Universe*; [I] Leiden (NI), *The Chemical Enrichment of the IGM/ICM*; [I] Marseille (Fr), *CosmoClusters*; [C] Roma (It), *AHEAD: Toward a Proposal for FP7*;

2008 – [S] Institut für Astrophysik Un. of Innsbruck (Au); [C] Sydney (As), *OZ Lens 2008*; [I] Garching (Ge), *Cluster Weighing Workshop*; [I] Sesto (It), *Sesto Workshop on Modelling the Evolution of Cosmic Structure*; [I] Cambridge (UK), *Putting gravity to Work*; [C, P] Granada (Sp), *The X-ray Universe*; [C] New York (US), *The Warm & Hot Universe*;

2007 – [P] San Diego (US), *The Suzaku X-ray Universe*; [I] Copenhagen (Dk), *Dark Matter Workshop*; [I] Sesto (It), *Tracing Cosmic Evolution with Clusters of Galaxies*; [C] Bilbao (Sp), *BICOS 2007*; [C] London (UK), *XEUS: Visions of the Extreme Universe*; [C] London (UK), *Outstanding questions for the standard cosmological model*;

2006 – [S] ETH Zurich (Ch); [C] Kyoto (J), *The Extreme Universe in the Suzaku Era*; [C] Garching (Ge), *Heating vs. Cooling in Galaxies and Clusters of Galaxies*; [C] Valencia (Sp), *Bernard's cosmic stories*;

2005 – [S] Un. of Trieste (It); [C] El Escorial (Sp), *The X-ray Universe 2005*; [C] Bologna, mini-workshop on *Luminous and dark matter in galaxies and clusters of galaxies*; [C] Kona (Hawaii, US), *The Future of Cosmology with Clusters of Galaxies*;

2004 – [S] IRA-CNR Bologna (It); [S] Un. of Trieste (It); [S] Institut für Astrophysik Un. of Innsbruck (Au);

[C] Paris (Fr), *35th COSPAR - Clusters of Galaxies: New Insights from XMM-Newton, Chandra and INTEGRAL*; [C] Ringberg (Ge), *Japanese-German Workshop on X-ray galaxy clusters and deep surveys*.
2003 – [S] Obs. of Bologna (It); [S] National Astronomical Obs. Beijing (Ch); [I] Santiago (Ch), ESO fellow symposium; [I] Shanghai (Ch), *Beyond the Milky Way: Progress in Extragalactic X-Ray Astronomy with Chandra and XMM-Newton*; [C] Mykonos (Gr), *Multiwavelength Cosmology*; [C] Trieste (It), SAIt 2003; [I] Ringberg (Ge), *Testing Cosmological Models with Galaxy Clusters*; [P] Pasadena (US), *Clusters of galaxies: probes of cosmological structure and galaxy evolution*;
2002 – [C] Roma (It), National Cosmological Meeting; [C] Porto (Po), JENAM 2002; [C] Les Arcs (Fr), *The Cosmological Model*;
2001 – [S] Darwin College, Cambridge (UK); [S] Obs. of Brera-Merate (It); [P] Noordwijk (NL), *New Visions of the X-ray Universe*; [C] Sesto (It), *Tracing cosmic evolution with galaxy clusters*; [I] Vulcano (It), *Chemical Enrichment of ICM and IGM*; [C] Hilo (Hawaii, US), *Astrophysical Ages and Time Scales*;
2000 – [S] ESO Garching (Ge); [S] Un. of Bologna (It); [S] Un. of Padova (It); [C, P] Palermo (It), *X-ray Astronomy 2000*; [P] Paris (Fr), *Constructing the Universe with Clusters of Galaxies*; [C] Leicester (UK), *UK X-ray Astronomy*;
1999 – [S] Un. of Roma 3 (It); [S] Telespazio Roma (It); [P] Santorini (Gr), *Large-scale-structure in the X-ray Universe*; [C] Marseille (Fr), *Clustering at high redshift*; [C] Birmingham (UK), *Workshop on Scaling Relations in Galaxies and Clusters*; [C] Ringberg (Ge), *Diffuse Thermal and Relativistic Plasma in Galaxy Clusters*; [P] Tokyo (Ja), *4th ASCA Symposium*;
1998 – [S] MPE Garching (Ge); [S] CNR Milano (It); [P] Noordwijk (NL), *Science with XMM*; [P] Garching (Ge), *Highlights in X-ray Astronomy*;
1997 – [C] Amsterdam (NL), EADN 10th Summer School on *X-ray Spectroscopy*; [P] Ruidoso (New Mexico, US), *Clusters of galaxies at different redshifts*; [C] Southampton (UK), *NAM 97*;
1996 – [S] IoA Cambridge (UK); [C] Roma (It), *X-ray probing of complex gravitational systems*

PRESS RELEASES & APOD related to my research activity:

- *Radio-X connection in Cassano et al. (2010)*: <http://chandra.harvard.edu/photo/2010/a1758/> , <http://www.media.inaf.it/2010/08/24/onde-radio-dal-cosmo/> (Ital.), http://www.lagazzettadelmezzogiorno.it/GdM.dallapuglia_NOTIZIA_01.php?IDNotizia=361171&IDCategoria=11 (Ital.) , <http://lescienze.espresso.repubblica.it/articolo/titolo/1344447> (Ital.)
- *RDCS1252 in Rosati et al. (2004)*: <http://antwrp.gsfc.nasa.gov/apod/ap040226.html> , <http://chandra.harvard.edu/photo/2004/rdcs1252/> , http://chandra.harvard.edu/press/04_releases/press_010204.html
- *3C294 in Fabian et al. (2001)*: <http://antwrp.gsfc.nasa.gov/apod/ap010222.html> , <http://www.astronet.ru:8105/db/msg/1168977> , http://chandra.harvard.edu/press/03_releases/press_052103.html , <http://origins.jpl.nasa.gov/library/story/021501-a.html> , <http://www.aerotechnews.com/starc/2001/022301/Chandra.html> , <http://www.scientific.ru/journal/news/n230201.html> , <http://spaceflightnow.com/news/n0102/16chandra/> , <http://astro.sci.muni.cz/pub/chandra2001/cxc0104.html>
- *A1795 in Fabian et al. (2001)*: <http://antwrp.gsfc.nasa.gov/apod/ap001208.html>
- *Perseus in Fabian et al. (2000)*: <http://antwrp.gsfc.nasa.gov/apod/ap001031.html> , <http://antwrp.gsfc.nasa.gov/apod/ap000615.html> , http://chandra.harvard.edu/press/00_releases/press_060700pers.html , <http://astro.sci.muni.cz/pub/chandra2000/cxc00-18.html> , <http://www.msfc.nasa.gov/NEWSROOM/news/releases/2000/00-182.html> , <http://spaceflightnow.com/news/n0006/08chandracannibal>

SCIENTIFIC PUBLICATIONS (July 2013)

Number of refereed papers: 101 (as first author: 30)

Number of papers with > 100 citations: 14 (as first author: 5)

Number of research monographs and chapters in collective volumes: 5

h-index: 38 (normalized: 17; as first author: 19)

Total number of citations: 4425 (normalized: 1044; as first author: 1447)

(a) Papers in refereed journals

103. "Revisiting scaling relations for giant radio halos in galaxy clusters"
R. Cassano, **S. Ettori**, G. Brunetti, S. Giacintucci, G.W. Pratt, T. Venturi, R. Kale, K. Dolag, M. Markevitch, 2013, ApJ, in press (arXiv:1306.4379)
102. "On the discrepancy between theoretical and X-ray concentration-mass relations for galaxy clusters"
E. Rasia, S. Borgani, **S. Ettori**, P. Mazzotta, M. Meneghetti, 2013, ApJ, 776, 39 (arXiv:1301.7476)
101. "CLASH-VLT: The mass, velocity-anisotropy, and pseudo-phase-space density profiles of the z=0.44 galaxy cluster MACS 1206.2-0847"
A. Biviano et al. (including **S. Ettori**), 2013, A&A, 558, 1 (arXiv:1307.5867)
100. "The generalized scaling relations for X-ray galaxy clusters: the most powerful mass proxy"
S. Ettori, 2013, MNRAS, in press (arXiv:1307.7157)
99. "Gas rotation in galaxy clusters: signatures and detectability in X-rays"
M. Bianconi, **S. Ettori**, C. Nipoti, 2013, MNRAS, 434, 1565 (arXiv:1305.5519)
98. "Cold fronts and metal anisotropies in the X-ray cool core of the galaxy cluster Zw 1742+3306"
S. Ettori, F. Gastaldello, M. Gitti, E. O'Sullivan, M. Gaspari, F. Brighenti, L. David, A. Edge, 2013, A&A, 555, 93 (arXiv:1305.3926)
97. "Sloshing cold fronts in galaxy groups and their perturbing disk galaxies: an X-ray, Optical and Radio Case Study"
F. Gastaldello, L. Di Gesu, S. Ghizzardi, S. Giacintucci, M. Girardi, E. Roediger, M. Rossetti, F. Brighenti, D.A. Buote, D. Eckert, **S. Ettori**, P.J. Humphrey, W.G. Mathews, 2013, ApJ, 770, 56 (arXiv:1304.5478)
96. "Large-scale inhomogeneities of the intracluster medium: improving mass estimates using the observed azimuthal scatter"
M. Roncarelli, **S. Ettori**, S. Borgani, K. Dolag, D. Fabjan, L. Moscardini, 2013, MNRAS, 432, 3030 (arXiv:1303.6506)
95. "Order statistics applied to the most massive and most distant galaxy clusters"
J.-C. Waizmann, **S. Ettori**, M. Bartelmann, 2013, MNRAS, 432, 914 (arXiv:1210.6021)
94. "Baryon Census in Hydrodynamical Simulations of Galaxy Clusters"
S. Planelles, S. Borgani, K. Dolag, **S. Ettori**, D. Fabjan, G. Murante, L. Tornatore, 2013, MNRAS, 431, 1487 (arXiv:1209.5058)
93. "X-ray morphological estimators"
E. Rasia, M. Meneghetti, **S. Ettori**, 2013, Astronomical Review, 8, 40 (arXiv:1211.7040)
92. "The X-ray/SZ view of the virial region. II. Gas mass fraction"
D. Eckert, **S. Ettori**, S. Molendi, F. Vazza, S. Paltani, 2013, A&A, 551 A23 (arXiv:1301.0624)
91. "The X-ray/SZ view of the virial region. I. Thermodynamic properties"
D. Eckert, S. Molendi, F. Vazza, **S. Ettori**, S. Paltani, 2013, A&A, 551, A22 (arXiv:1301.0617)

90. "Properties of gas clumps and gas clumping in the intra cluster medium"
F. Vazza, D. Eckert, A. Simionescu, M. Brüggen, **S. Ettori**, 2013, MNRAS, 429, 799 (arXiv:1211.1695)
89. "Mass, shape and thermal properties of A1689 by a multi-wavelength X-ray, lensing and Sunyaev-Zel'dovich analysis"
M. Sereno, **S. Ettori**, K. Umetsu, A. Baldi, 2013, MNRAS, 428, 2241 (arXiv:1210.3359)
88. "Hydrodynamical simulations of galaxy clusters in dark energy cosmologies: II. c-M relation"
C. De Boni, **S. Ettori**, K. Dolag, L. Moscardini, 2013, MNRAS, 428, 2921 (arXiv:1205.3163)
87. "Cosmology in 2D: the concentration-mass relation for galaxy clusters"
C. Giocoli, M. Meneghetti, **S. Ettori**, L. Moscardini, 2012, MNRAS, 426, 1558 (arXiv:1205.2375)
86. "Self-similarity of temperature profiles in distant galaxy clusters: the quest for a universal law"
A. Baldi, **S. Ettori**, F. Gastaldello, S. Molendi, 2012, A&A, 545, 41 (arXiv:1206.6603)
85. "A Chandra - VLA Investigation of the X-ray Cavity System and Radio Mini-halo in the Galaxy Cluster RBS 797"
A. Doria, M. Gitti, **S. Ettori**, F. Brighenti, P.E.J. Nulsen, B.R. McNamara, 2012, ApJ, 753, 47 (arXiv:1204.6191)
84. "The gas distribution in galaxy cluster outer regions"
D. Eckert, F. Vazza, **S. Ettori**, S. Molendi, D. Nagai, E. T. Lau, M. Roncarelli, M. Rossetti, S. L. Snowden, F. Gastaldello, 2012, A&A, 541, 57 (arXiv:1111.0020)
83. "On the modelling of the excesses of galaxy clusters over high mass thresholds"
J.-C. Waizmann, **S. Ettori**, L. Moscardini, 2012, MNRAS, 422, 3554 (arXiv:1201.3526)
82. "Lensing and X-ray mass estimates of clusters (SIMULATION)"
E. Rasia, M. Meneghetti, R. Martino, S. Borgani, A. Bonafede, K. Dolag, **S. Ettori**, D. Fabjan, C. Giocoli, P. Mazzotta, J. Merten, M. Radovich, L. Tornatore, 2012, New J. Phys., 14, 055018 (arXiv:1201.1569)
81. "Pointing to the minimum scatter: the generalized scaling relations for galaxy clusters"
S. Ettori, E. Rasia, D. Fabjan, S. Borgani, K. Dolag, 2012, MNRAS, 420, 2058 (arXiv:1111.1693)
80. "An XMM-Newton spatially-resolved study of metal abundance evolution in distant galaxy clusters"
A. Baldi, **S. Ettori**, S. Molendi, I. Balestra, F. Gastaldello, P. Tozzi, 2012, A&A, 537, 142 (arXiv:1111.4337)
79. "An application of extreme value statistics to the most massive galaxy clusters at low and high redshifts"
J.-C. Waizmann, **S. Ettori**, L. Moscardini, 2012, MNRAS, 420, 1754 (arXiv:1109.4820)
78. "Shape and orientation of the gas distribution in A1689"
M. Sereno, **S. Ettori**, A. Baldi, 2012, MNRAS, 419, 2646 (arXiv:1109.2732)
77. "On a novel approach using massive clusters at high redshifts as cosmological probe"
J.-C. Waizmann, **S. Ettori**, L. Moscardini, 2011, MNRAS, 418, 456 (arXiv:1105.4099)
76. "Hydrodynamical simulations of galaxy clusters in dark energy cosmologies: I. general properties"
C. De Boni, K. Dolag, **S. Ettori**, L. Moscardini, V. Pettorino, C. Baccigalupi, 2011, MNRAS, 415, 2758 (arXiv:1008.5376)
75. "The scatter in the radial profiles of X-ray luminous galaxy clusters as diagnostic of the thermodynamical state of the ICM"
F. Vazza, M. Roncarelli, **S. Ettori**, K. Dolag, 2011, MNRAS, 413, 2305 (arXiv:1011.5783)

74. “Gas temperature profiles in galaxy clusters with Swift XRT: observations and capabilities to map near R_{200} ”
A. Moretti, F. Gastaldello, **S. Ettori**, S. Molendi, 2011, A&A, 528, 102 (arXiv:1012.4793)
73. “Abell 611: II. X-ray and strong lensing analysis”
A. Donnarumma, **S. Ettori**, M. Meneghetti, R. Gavazzi, B. Fort, L. Moscardini, A. Romano, L. Fu, F. Giordano, R. Maoli, M. Radovich, R. Scaramella, J. Richard, 2011, A&A, 528, 73 (arXiv:1002.1625)
72. “Mass profiles and $c - M_{\text{DM}}$ relation in X-ray luminous galaxy clusters”
S. Ettori, F. Gastaldello, A. Leccardi, S. Molendi, M. Rossetti, D. Buote, M. Meneghetti, 2010, A&A, 524, 68 (arXiv:1009.3266)
71. “On the connection between giant radio halos and cluster mergers”
R. Cassano, **S. Ettori**, S. Giacintucci, G. Brunetti, M. Markevitch, T. Venturi, M. Gitti, 2010, ApJL, 721, L82 (arXiv:1008.3624)
70. “Apparent high metallicity in 3-4 keV galaxy clusters: the inverse iron-bias in action in the case of the merging cluster Abell 2028”
F. Gastaldello, **S. Ettori**, I. Balestra, F. Brighenti, D.A. Buote, S. De Grandi, S. Ghizzardi, M. Gitti, P. Tozzi, 2010, A&A, 522, 34 (arXiv:1006.3255)
69. “Abell 611: I. Weak lensing analysis with LBC”
A. Romano, L. Fu, F. Giordano, R. Maoli, P. Martini, M. Radovich, R. Scaramella, V. Antonuccio-Delego, A. Donnarumma, **S. Ettori** et al., 2010, A&A, 514, 88 (arXiv:1002.0727)
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