

## Curriculum Vitae

Marta Volonteri

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### Research interests:

*Theory:* cosmology and structure formation, formation and evolution of massive black holes, accretion physics, stellar dynamics

*Observations:* high redshift universe, galaxy evolution, active galactic nuclei

### Positions

Directeur de Recherche	2012-present
Institute d'Astrophysique de Paris, Paris, France	
Associate Professor with tenure	2010-2011
University of Michigan, Ann Arbor, MI, USA	
Assistant Professor	2007-2010
University of Michigan, Ann Arbor, MI, USA	
Research Associate	2004-2006
Institute of Astronomy, Cambridge, UK	
Postgraduate Research Astronomer	2002-2004
University of California, Santa Cruz, USA	

### Education:

PhD in Astronomy, University of Milan	2003
Advisors: Prof. P. Madau, Prof. F. Haardt	
MS <i>magna cum laude</i> in Physics, University of Milan	1999
Advisors: Prof. G. Chincarini, Dr. P. Saracco	

### Students and postdoctoral advisees

Postdoctoral supervision:

Luciano Del Valle	Institute d'Astrophysique de Paris	2016-present
Maxime Trebitsch	Institute d'Astrophysique de Paris	2016-present
Alessandro Lupi	Institute d'Astrophysique de Paris	2016-present
Salvatore Cielo	Institute d'Astrophysique de Paris	2016-present
Andrea Negri	Institute d'Astrophysique de Paris	2015-present
Muhammad Latif	Institute d'Astrophysique de Paris	2014-2016
Pedro Capelo	University of Michigan	2012-2014
Jillian Bellovary	University of Michigan	2010-2012
Massimo Dotti	University of Michigan	2008-2009

Graduate student supervision:

Hugo Pfister	Université Pierre et Marie Curie	2016-present
Tilman Hartwig	Université Pierre et Marie Curie	2014-present
Mélanie Habouzit	Université Pierre et Marie Curie	2013-2016
Sandor Van Wassenhove	University of Michigan	2008-2013

Matthew Masarik	University of Michigan	2010-2012
Gaylor Wafflard-Fernandez	Université Paris-Sud	2017
Hugo Pfister	Ecole Normale Supérieure	2016
Shannon Schmoll	University of Michigan	2007-2011
Shengnian Xu	University of Science & Technology of China	2008-2009
Bernadetta Devecchi	University of Milano-Bicocca	2007-2009
Federico Marulli	Università degli Studi di Bologna, Bologna, Italy	2004-2007
Alberto Sesana	Università degli Studi dell'Insubria, Italy	2003-2005

Undergraduate student supervision:

Gaylor Wafflard-Fernandez (co-supervision)	Université Paris-Sud	2017
Hugo Pfister	Université Paris Saclay, ENS Cachan	2016
Roberta Maroni	University of Michigan	2011-2012
Duncan Campbell	University of Michigan	2008-2011
Albino Perego	Università degli Studi di Milano, Italy	2008-2009
Gary Foreman	University of Michigan	2007-2008
Marcella Fontana	Università degli Studi dell'Insubria, Italy	2005-2007

**Teaching**

Undergraduate:

'Galaxies and the Universe'	University of Michigan, 2010
'Introductory Astronomy: Stars, Galaxies, and the Universe'	University of Michigan, 2008, 2009, 2010, 2011
'Introduction to Astrophysics'	University of Michigan, 2008, 2009
'Probability and Statistics'	University of Como, 2001
'Physics Laboratory in Mechanics'	University of Como, 2001

Graduate:

'High-redshift black holes'	Università di Bologna, Italy, 2015
'Massive black holes and galaxies'	Chalmers University, Sweden, 2013
'Supermassive black holes'	Osservatorio di Brera, Italy, 2013
'Active galactic nuclei and host galaxies'	Ecole Doctorale Ile de France, 2013, 2014, 2015
'The extragalactic Universe'	University of Michigan, USA, 2011
'Formation and Evolution of Black Holes'	Italy, 2009
'Black Hole Formation and Light-up'	Italy, 2007

**Grant awards**

• ERC Consolidator Grant, PI Volonteri	2014-2019
• GENCI HEC, PI Volonteri	2012- 2016
• Marie Curie Career Integration Grant, PI Volonteri	2012-2016
• National Science Foundation, PI Volonteri	2011-2014
• NASA HEC, PIs Bellovary-Volonteri	2010-2012
• Chandra Theory Award, PI Volonteri	2011-2012
• MCTP Workshop Award, PI Volonteri	2010
• NASA ATP, PI Volonteri	2010-2013

- Rackam Faculty Grant, PI Volonteri 2009
- MCTP Workshop Award, PIs Volonteri - Freese 2009
- Chandra Theory Award, PI Volonteri 2008-2010
- Chandra GO, PI Alexander 2007-2009
- NASA ATP, PI Kalogera 2007-2010

### **Professional activities**

- Reviewer: Royal Society, European Research Council, National Science Foundation, NASA, Dutch Science Council, Volkswagen Foundation, Chandra TAC, Magellan TAC, Subaru TAC, the Astrophysical Journal, the Monthly Notices of the Royal Astronomical Society, Astronomy & Astrophysics, Classic and Quantum Gravity
- Conference organization: 22 international conference organizing committees; KITP program "A Universe of Black Holes" 2013
- Organizing/Management Committees: Bureau du Groupement de Recherche Ondes Gravitationnelles, Management Committee Member COST action CA16104 - Gravitational waves, black holes and fundamental physics; IAU Division X1 Supermassive Black Holes, Feedback and Galaxy Evolution

### **Visiting positions:**

Visiting Scholar, Northwestern University	Oct-Nov 2006
Member, Kavli Institute for Theoretical Physics	2006; 2013
Visiting Professor, University of Michigan	2012-2014

### **Invited talks and colloquia since 2013**

(Total: 70 invited/plenary/review talks; 47 colloquia. List: invited/plenary/review talks since 2013)

Invited Talk	Challenges in galaxy evolution, Florence, Italy	August 2017
Invited Talk	The era of gravitational-wave astronomy, Paris, France	June 2017
Invited Talk	Galaxy Evolution Across Time, Paris, France	June 2017
Invited Talk	BH Initiative Conference, USA	May 2017
Colloquium	Institute for cosmology & Gravitation, Portsmouth, UK	March 2017
Invited Talk	GRavitational-wave Astronomy Meeting in PARIS, France	August 2016
Invited Talk	The transient and variable sky in the era of gravitational wave astronomy, UK	October 2016
Invited Talk	Illuminating the Dark Ages: Quasars and Galaxies in the Reionization Epoch, Germany	June 2016
Invited Talk	Cosmic dawn of galaxy formation, France	June 2016
Invited Talk	What shapes galaxies? STScI Spring Symposium, USA	April 2016
Colloquium	Center for Astrophysics, USA	March 2016
Colloquium	Sheffield University, UK	January 2016
Colloquium	Università di Bologna, Italy	October 2015
Colloquium	NASA Goddard	October 2015
Colloquium	University of Maryland, USA	October 2015
Invited Talk	The Physics of Supermassive Black Hole Formation and Feedback, USA	October 2015
Invited Talk	Demographics and environment of AGN from multi-wavelength surveys, Greece	September 2015

Review talk	IAUS 319 - Galaxies at High Redshift and Their Evolution Over Cosmic Time, IAU General Assembly, USA	August 2015
Review talk	FM 14 -The Gravitational Wave Symphony of Structure Formation, IAU General Assembly, USA	August 2015
Invited Talk	Division J Meeting, IAU General Assembly, USA	August 2015
Invited Talk	First stars, galaxies, and black holes: Now and Then, The Netherlands	June 2015
Invited Talk	VIth Workshop challenges of new physics in space, Brazil	May 2015
Invited Talk	Back at the Edge of the Universe, Portugal	March 2015
Colloquium	DAMTP, University of Cambridge, UK	February 2015
Colloquium	Université de Tours, France	January 2015
Colloquium	Weizmann Institute, Israel	December 2015
Colloquium	Tel Aviv University, Israel	December 2015
Colloquium	ETH Zurich, Switzerland,	December 2015
Invited Talk	Event Horizon Telescope 2014, Waterloo, Canada	November 2014
Colloquium	Observatoire de Grenoble	October 2013
Colloquium	Observatoire de Meudon (LUTH)	October 2013
Invited Talk	The first billion years of galaxies and black holes, Italy	June 2014
Invited Talk	The unquiet Universe, Italy	June 2014
Colloquium	Laboratoire d'Astrophysique de Marseille	May 2013
Invited Talk	Progress on Old and New Themes in Cosmology, France	April 2014
Invited Talk	"Hyper-accretion", Japan	April 2014
Invited Talk	Journée Athena France,	February 2014
Colloquium	Gottingen University, Germany	December 2013
Colloquium	Heidelberg Astronomical Institutes (ARI, ITA, LSW, MPA, MPIK, HITS), Germany	November 2013
Invited Talk	'50 Years of Quasars' Symposium, USA	September 2013
Invited Talk	Kerr Symposium, Germany	July 2013
Invited Talk	Colloque de l'IAP 2013, France	June 2013
Review Talk	Galaxies vs SMBHs, Sicily, Italy	June 2013
Invited Talk	Semaine de la Société Française d'Astronomie et d'Astrophysique, France	June 2013
Colloquium	Osservatorio Astronomico di Brera	May 2013
Colloquium	University of Amsterdam	March 2013
Invited Talk	'Shaping galaxy evolution', France	January 2013

## Publication list

Marta Volonteri

### Publications in refereed journals

- Citation report via SAO/NASA Astrophysics Data System: H index=45; 6900 citations.
- 119. Density profile of dark matter haloes and galaxies in the horizon-agn simulation: the impact of AGN feedback, Peirani S., Dubois Y., Volonteri M., Devriendt J., Bundy K., Silk J., Pichon C., Kaviraj S., Gavazzi R., Habouzit M., 2017, MNRAS, 472, 2153
- 118. Recoiling supermassive black hole escape velocities from dark matter haloes, Choksi N., Behroozi P., Volonteri M., Schneider R., Ma C.-P., Silk J., Moster B., 2017, MNRAS, 472, 1526
- 117. Cosmic evolution of stellar quenching by AGN feedback: clues from the Horizon-AGN simulation, Beckmann R. S., Devriendt J., Slyz A., Peirani S., Richardson M. L. A., Dubois Y., Pichon C., Chisari N. E., Kaviraj S., Laigle C., Volonteri M., 2017, MNRAS, 472, 949
- 116. The birth of a supermassive black hole binary, Pfister H., Lupi A., Capelo P. R., Volonteri M., Bellovary J. M., Dotti M., 2017, MNRAS, 471, 3646
- 115. The sustainable growth of the first black holes, Pezzulli E., Volonteri M., Schneider R., Valiante R., 2017, MNRAS, 471, 589
- 114. Simplified galaxy formation with mesh-less hydrodynamics, Lupi A., Volonteri M., Silk J., 2017, MNRAS, 470, 1673
- 113. A survey of dual active galactic nuclei in simulations of galaxy mergers: frequency and properties, Capelo P. R., Dotti M., Volonteri M., Mayer L., Bellovary J. M., Shen S., 2017, MNRAS, 469, 4437
- 112. Active galactic nuclei vs. host galaxy properties in the COSMOS field, Lanzuisi G., Delvecchio I., Berta S., Brusa M., Comastri A., Gilli R., Gruppioni C., Marchesi S., Perna M., Pozzi F., Salvato M., Symeonidis M., Vignali C., Vito F., Volonteri M., Zamorani G., 2017, A&A, 602, A123
- 111. Blossoms from black hole seeds: properties and early growth regulated by supernova feedback, Habouzit M., **Volonteri** M., Dubois Y., 2017, MNRAS, 468, 3935
- 110. Black hole feeding and feedback: the physics inside the ‘sub-grid’, Negri A., **Volonteri** M., 2017, MNRAS, 467, 3475
- 109. Constraining supermassive black hole evolution through the continuity equation, Tucci M., **Volonteri** M., 2017, A&A, 600, A64
- 108. How to quench a galaxy, Pontzen A., Tremmel M., Roth N., Peiris H. V., Saintonge A., **Volonteri** M., Quinn T., Governato F., 2017, MNRAS, 465, 547
- 107. On the Accretion Rates and Radiative Efficiencies of the Highest-redshift Quasars, Trakhtenbrot B., **Volonteri** M., Natarajan P., 2017, ApJ, 836, L1
- 106. How AGN and SN Feedback Affect Mass Transport and Black Hole Growth in High-redshift Galaxies, Prieto J., Escala A., **Volonteri** M., Dubois Y., 2017, ApJ, 836, 216

105. Hyperaccreting black holes in galactic nuclei, Begelman M. C., **Volonteri M.**, 2017, MNRAS, 464, 1102
104. The HORIZON-AGN simulation: morphological diversity of galaxies promoted by AGN feedback, Dubois Y., Peirani S., Pichon C., Devriendt J., Gavazzi R., Welker C., **Volonteri M.**, 2016, MNRAS, 463, 3948
103. On the number density of ‘direct collapse’ black hole seeds, Habouzit M., **Volonteri M.**, Latif M., Dubois Y., Peirani S., 2016, MNRAS, 463, 529
102. Exploring the nature of the Lyman- $\alpha$  emitter CR7, Hartwig T., Latif M. A., Magg M., Bromm V., Klessen R. S., Glover S. C. O., Whalen D. J., Pellegrini E. W., **Volonteri M.**, 2016, MNRAS, 462, 2184
101. The cosmic evolution of massive black holes in the Horizon-AGN simulation, **Volonteri M.**, Dubois Y., Pichon C., Devriendt J., 2016, MNRAS, 460, 2979
100. Gravitational waves from the remnants of the first stars, Hartwig T., **Volonteri M.**, Bromm V., Klessen R. S., Barausse E., Magg M., Stacy A., 2016, MNRAS, 460, L74
99. Comparison of black hole growth in galaxy mergers with GASOLINE and RAMSES, Gabor J. M., Capelo P. R., **Volonteri M.**, Bournaud F., Bellovary J., Governato F., Quinn T., 2016, A&A, 592, A62
98. Impact of Dust Cooling on Direct-collapse Black Hole Formation, Latif M. A., Omukai K., Habouzit M., Schleicher D. R. G., **Volonteri M.**, 2016, ApJ, 823, 40
97. Inferences on the Relations Between Central Black Hole Mass and Total Galaxy Stellar Mass in the High-redshift Universe, **Volonteri M.**, Reines A. E., 2016, ApJ, 820, L6
96. Black hole formation and growth with non-Gaussian primordial density perturbations, Habouzit M., **Volonteri M.**, Latif M., Nishimichi T., Peirani S., Dubois Y., Mamon G. A., Silk J., Chevallard J., 2016, MNRAS, 456, 1901
95. Shining in the dark: the spectral evolution of the first black holes, Pacucci F., Ferrara A., **Volonteri M.**, Dubus G., 2015, MNRAS, 454, 3771
94. Relations between Central Black Hole Mass and Total Galaxy Stellar Mass in the Local Universe, Reines A. E., **Volonteri M.**, 2015, ApJ, 813, 82
93. Black hole accretion versus star formation rate: theory confronts observations, **Volonteri M.**, Capelo, P. R., Netzer, H., Bellovary, J., Dotti, M., & Governato, F., 2015, MNRAS, 452, L6
92. The growth efficiency of high-redshift black holes, Pacucci, F., **Volonteri M.**, & Ferrara, A., 2015, MNRAS, 452, 1922
91. Black hole evolution - I. Supernova-regulated black hole growth, Dubois, Y., **Volonteri M.**, Silk, J., Devriendt, J., Slyz, A., & Teyssier, R., 2015, MNRAS, 452, 1502
90. How an improved implementation of H<sub>2</sub> self-shielding influences the formation of massive stars and black holes, Hartwig, T., Glover, S. C. O., Klessen, R. S., Latif, M. A., & **Volonteri M.**, 2015, MNRAS, 452, 1233

89. Assessing inflow rates in atomic cooling haloes: implications for direct collapse black holes, Latif, M. A., & **Volonteri, M.**, 2015, MNRAS, 452, 1026
88. Off the beaten path: a new approach to realistically model the orbital decay of supermassive black holes in galaxy formation simulations, Tremmel, M., Governato, F., **Volonteri, M.**, & Quinn, T. R., 2015, MNRAS, 451, 1868
87. Growing black holes and galaxies: black hole accretion versus star formation rate, **Volonteri, M.**, Capelo, P. R., Netzer, H., Bellovary, J., Dotti, M., & Governato, F., 2015, MNRAS, 449, 1470
86. The Case for Supercritical Accretion onto Massive Black Holes at High Redshift, **Volonteri, M.**, Silk, J., & Dubus, G., 2015, ApJ, 804, 148
85. No WIMP mini-spikes in dwarf spheroidal galaxies, Wanders, M., Bertone, G., **Volonteri, M.**, & Weniger, C., 2015, JCAP, 4, 004
84. Growth and activity of black holes in galaxy mergers with varying mass ratios, Capelo, P. R., **Volonteri, M.**, Dotti, M., Bellovary, J. M., Mayer, L., & Governato, F., 2015, MNRAS, 447, 2123
83. New insights on the recoiling/binary black hole candidate J0927+2943 via molecular gas observations by Decarli, R. , Dotti, M., et al. 2014, MNRAS, 445, 1558
82. Dancing in the dark: galactic properties trace spin swings along the cosmic web, by Dubois et al. 2014, MNRAS, 444, 1453
81. Constraining the high-redshift formation of black hole seeds in nuclear star clusters with gas inflows by Lupi, A., Colpi, M, Devecchi, B, Galanti, G, & **Volonteri, M.**, 2014, MNRAS, 442, 3616
80. Black hole evolution - II. Spinning black holes in a supernova-driven turbulent interstellar medium by Dubois, **Volonteri, M.** & Silk, et al. 2014, MNRAS, 440, 2333
79. Black hole evolution - III. Statistical properties of mass growth and spin evolution using large-scale hydrodynamical cosmological simulations by Dubois, **Volonteri, M.** & Silk, 2014, MNRAS, 440, 1590
78. Nuclear coups: dynamics of black holes in galaxy mergers by Van Wassenhove, S.; Capelo, P.; **Volonteri, M.** et al. 2014, MNRAS, 439, 474
77. The Relative Role of Galaxy Mergers and Cosmic Flows in Feeding Black Holes by Bellovary, J.; Brooks, A'; **Volonteri, M.** et al. 2013; ApJ, 779, 136
76. New Observational Constraints on the Growth of the First Supermassive Black Holes by Treister, E., Schawinski, K, **Volonteri, M.**, Natarajan, P. , ApJ, 778, 130
75. The Evolution of Active Galactic Nuclei and their Spins by **Volonteri, M.**; Sikora, M.; Lasota, J.-P.; Merloni, A., 2013, ApJ, 775, 94
74. The role of relativistic jets in the heaviest and most active supermassive black holes at high redshift by Ghisellini, G.; Haardt, F.; Ceca, R. Della; **Volonteri, M.**; Sbarrato, T., 2013, MNRAS, 432, 2818
73. Massive Black Holes in Central Cluster Galaxies by Volonteri, M. & Ciotti, L. 2013, ApJ, 768, 29

72. Effects Of Circum-nuclear Disk Gas Evolution And The Spin Of Central Black Holes by Maio, U., Dotti, M., Petkova, M., Perego, A.; **Volonteri, M.** 2013, ApJ, 767, 37
71. On the Orientation and Magnitude of the Black Hole Spin in Galactic Nuclei by Dotti, M., Colpi, M., Pallini, S., Perego, A., & **Volonteri, M.** 2013, ApJ, 762, 68
70. Limits on the high redshift growth of massive black holes by Salvaterra, R.; Haardt, F.; **Volonteri, M.**; Moretti, A., 2012, A&A, 545, L6
69. Gravitational recoil from accretion-aligned black-hole binaries by Lousto C.O., Zlochower Y., Dotti M., **Volonteri M.**, 2012, PhRvD, 85, 084015
68. eLISA: Astrophysics and cosmology in the millihertz regime by Amaro-Seoane et al. 2012, Classical and Quantum Gravity, 29, 124016
67. Observability of Dual AGN in Merging Galaxies by Van Wassenhove, S., **Volonteri, M.** et al. 2012, ApJL, 748, 7
66. The mass function of black holes at  $1 < z < 4.5$ : comparison of models with observations by Natarajan, P. & **Volonteri, M.**, 2012, MNRAS, 422, 205
65. High redshift formation and evolution of central massive objects II: The census of BH seeds by Devecchi, B., **Volonteri, M.**, et al. 2012, MNRAS, 421, 1465
64. The First Massive Black Hole Seeds and Their Hosts by Bellovary, J., **Volonteri, M.**, Governato, F., Shen, S., Quinn, T., & Wadsley, J. 2011, ApJ, 742, 13
63. Assessing the redshift evolution of massive black holes and their hosts by **Volonteri, M.** & Stark, D.P. 2011, MNRAS, 417, 2085
62. Cosmography with strong lensing of LISA gravitational wave sources by Sereno, M., Jetzer, P., Sesana, A., & **Volonteri, M.** 2011, MNRAS, 415, 2773
61. Blazars in the early Universe by **Volonteri, M.**, Haardt, F., Ghisellini, G., Della Ceca R., 2011, MNRAS, 416, 216
60. Blindly Detecting Merging Supermassive Black Holes with Radio Surveys by Kaplan, D. L., O'Shaughnessy, R., Sesana, A., & **Volonteri, M.** 2011, ApJL, 734, L37
59. How Important is the Dark Matter Halo for Black Hole Growth? by **Volonteri, M.**, Natarajan, P., Gültekin, K., 2011, ApJ, 737, 50
58. The Spin of the Supermassive Black Hole in NGC 3783 by Brenneman, L. W., et al., M. 2011, ApJ, 736, 103
57. Black hole growth in the early Universe is self-regulated and largely hidden from view by Treister, E., Schawinski, K., **Volonteri, M.**, Natarajan, P. & Gawiser, E. Nature, 2011, 474, 356
56. High redshift Fermi blazars by Ghisellini, G., Tagliaferri, G, Foschini, L., Ghirlanda, G., Tavecchio, Della Ceca R., F., Haardt, F., **Volonteri, M.**, Gehrels, N. 2010, MNRAS, 411, 901
55. Reconstructing the massive black hole cosmic history through gravitational waves, by Sesana, A., Gair, J., Berti, E. & **Volonteri, M.**, 2011, Phys. Rev. D, 83, 044036



54. Massive black holes in stellar systems: 'quiescent' accretion and luminosity by **Volonteri, M.**, Dotti, M., Campbell, D. & Mateo, M. 2011, ApJ, 730, 145
53. Strong lensing of gravitational waves as seen by LISA, by Sereno, M., Sesana, A., Bleuler, A., Jetzer, Ph., **Volonteri, M.** & Begelman, M. C. Physical Review Letters, 105, 251101
52. Constraining properties of the black hole population using LISA by Gair, J., Sesana, A., Berti, E. & **Volonteri, M.**, Classical and Quantum Gravity, 28, 094018
51. High redshift formation and evolution of central massive objects I: model description by Devecchi, B., **Volonteri, M.**, Colpi, M. & Haardt, F. MNRAS, 2010, 409, 1057
50. Quasistars and the cosmic evolution of massive black holes, by **Volonteri, M.** & Begelman, M. C., 2010, MNRAS, 409, 1022
49. Massive black holes lurking in Milky Way satellites by Van Wassenhove, S., **Volonteri, M.**, Walker, M., Gair, J., 2010, MNRAS, 408, 1139
48. Wandering Black Holes in Bright Disk Galaxy Halos by Bellovary, J. M., Governato, F., Quinn, T R., Wadsley, J., Shen, S., **Volonteri, M.** 2010, ApJL, 721, 148
47. LISA extreme-mass-ratio inspiral events as probes of the black hole mass function, by Gair, J., Tang, C. & **Volonteri, M.**, 2010, Physical Review D, 81, 104014
46. Gravitational recoil: effects on MBH occupation fraction over cosmic time by **Volonteri, M.**, Gültekin, K., *Dotti, M.*, 2010, MNRAS, 404, 2143
45. Chasing the heaviest black holes of jetted Active Galactic Nuclei by Ghisellini, G., Della Ceca R., **Volonteri, M.**, Ghirlanda, G., Tavecchio, F., Foschini, L., Tagliaferri, G., Haardt, F., Pareschi, G., Grindlay, J., 2010, MNRAS, 405, 387
44. Dual black holes in merger remnants. II: spin evolution and gravitational recoil by *Dotti, M.*, **Volonteri, M.**, *Perego, A.*, Colpi, M., Ruzsowski, M., Haardt, F., 2010, MNRAS, 402, 682
43. Constraining the Spin of the Black Hole in Fairall 9 with Suzaku by Schmoll, S.; Miller, J. M.; **Volonteri, M.**; Cackett, E.; Reynolds, C. S.; Fabian, A. C.; Brenneman, L. W.; Miniutti, G.; Gallo, L. C., 2009, ApJ, 703, 217
42. The blazar S5 0014+813: a real or apparent monster? by Ghisellini, G., Foschini, L., **Volonteri, M.**, Ghirlanda, G., Haardt, F., Burlon, D., Tavecchio, F. 2009, MNRAS, 399, 24
41. Relative Role of Stars and Quasars in Cosmic Reionization by **Volonteri, M.** & Gnedin, N. 2009, ApJ, 703, 2113
40. Supermassive binary black holes: expectations at  $z < 1$  by **Volonteri, M.**, Miller J. M. & *Dotti M.* 2009, ApJL, 703, 86
39. Mass and spin coevolution during the alignment of a black hole in a warped accretion disc by *Perego, A.*, *Dotti, M.*, Colpi, M. & **Volonteri, M.**, 2009, MNRAS 399, 2249
38. Journey to the  $M_{\text{BH}} - \sigma$  relation: the fate of low mass black holes in the Universe by **Volonteri, M.** & Natarajan, P., 2009, MNRAS, 400, 1911

37. SDSSJ092712.65+294344.0: a candidate massive black hole binary by *Dotti, M., Montuori, C., Decarli, R., Volonteri, M., Colpi, M., Haardt, F.*, 2009, MNRAS Letters, 398, 73
36. The Chandra COSMOS Survey, I: Overview and Point Source Catalog by *Elvis, M., et al.* 2009, ApJS, 184, 158
35. Implications of primordial black holes on the first stars and the origin of the super-massive black holes by *Bambi, C., Spolyar, D., Dolgov, A. D., Freese, K., Volonteri, M.*, 2009, MNRAS, 399, 1347
34. Dual black holes in merger remnants. I: linking accretion to dynamics by *Dotti, M., Ruzsokowski, M., Paredi, L., Colpi, M., Volonteri, M., Haardt, F.*, 2009, MNRAS, 396, 1640
33. The Chandra Deep Protocluster Survey: Ly-alpha Blobs are powered by heating, not cooling by *Geach, J. E., Alexander, D. M., Lehmer, B. D., Smail, Ian, Matsuda, Y., Chapman, S. C., Scharf, C. A., Ivison, R. J., Volonteri, M. et al.* 2009, ApJ, 700, 1
32. Gravitational waves from resolvable massive black hole binary systems and observations with Pulsar Timing Arrays by *Sesana, A., Vecchio, A. & Volonteri, M.*, 2009, MNRAS, 394, 2255
31. Massive Black Hole Binary Inspirals: Results from the LISA Parameter Estimation Taskforce by *Arun et al., & Volonteri, M.*, 2009, Classical and Quantum Gravity, 26, 094027
30. LISA detection of massive black hole binaries: imprint of seed populations and of extreme recoils by *Sesana, A., Volonteri, M. & Haardt, F.*, 2009, Classical and Quantum Gravity, 26, 094033
29. Formation of the first nuclear clusters and massive black holes at high redshift by *Devecchi, B. & Volonteri, M.*, 2009, ApJ, 694, 302
28. Double quasars: probes of black hole evolution and merger scenarios by *Foreman, G., Volonteri, M. & Dotti, M.* 2009, ApJ, 693, 1554
27. Imprints of recoiling massive black holes on the hot gas of early-type galaxies by *Devecchi, B., Rasia, E., Dotti, M., Colpi, M. & Volonteri, M.*, 2009, MNRAS, 394, 633
26. The Chandra Deep Protocluster Survey: Evidence for an Enhancement of AGN Activity in the SSA22 Protocluster at  $z = 3.09$  by *Lehmer, B.D., Alexander, D. M., Geach, J. E., Smail, I. Basu-Zych, A., Bauer, F. E., Chapman, S.C., Matsuda, Y., Scharf, C. A., Volonteri, M. & Yamada T.*, 2009, ApJ, 691, 687
25. Off-nuclear AGN as a signature of recoiling massive black holes by *Volonteri, M. & Madau, P.* 2008, ApJL, 687, 57
24. Cosmological black hole spin evolution by mergers and accretion by *Berti, E. & Volonteri, M.*, 2008, ApJ, 684, 822
23. Compact massive objects in Virgo galaxies: the black hole population by *Volonteri, M., Haardt, F. & Gultekin, K.* 2008, MNRAS, 384, 1387
22. The evolution of massive black hole seeds by *Volonteri, M., Lodato, G., & Natarajan, P.* 2008, MNRAS, 383, 1079
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