

# **Lorenzo Amati: Curriculum Vitae et Studiorum**

(as of August 20<sup>th</sup> 2017; see also <http://www.iasfbo.inaf.it/~amati/>)

## **General Information**

- *Born:* in Modena, Italy, on November, 8 1966
- *Nationality:* Italian
- *Foreign language:* English, French
- *Current working Institution:* INAF (Italian National Institute for Astrophysics) – IASF Bologna
- *Current affiliations:* IAU (International Astronomical Union) member; COSPAR (COMmittee on SPace Research) associate; ICRANet (International Center for Relativistic Astrophysics Network ) faculty adjunct professor; SIGRAV (Società Italiana di GRAVitazione) member, ISGRG (International Society on General Relativity and Gravitation) member; member of the *Swift* (NASA) team; member of the LOFT (ESA) collaboration; member of the ATHENA (ESA) collaboration.
- *Main fields of research:* high energy astrophysics, cosmology, experimental astrophysics
- *Personal web page:* <http://www.iasfbo.inaf.it/~amati/>

## **Education and Scientific Career**

- 2017 - : Research Director at INAF - Istituto di Astrofisica Spaziale e Fisica cosmica di Bologna, Bologna - Italy
- 2016 - : member of the advisory board of INAF - Istituto di Astrofisica Spaziale e Fisica cosmica di Bologna, Bologna - Italy
- 2016 - 2017: Senior Researcher at INAF - Istituto di Astrofisica Spaziale e Fisica cosmica di Bologna, Bologna - Italy
- 2011 - 2015: Member of the Board for Relativistic and Particle Astrophysics of the Italian National Institute for Astrophysics (INAF)
- 2011 - : Member of the Faculty of the PhD Program in Physics at University of Ferrara
- 2009 - : Adjunct Professor of the Faculty of the International Center for Relativistic Astrophysics Network (ICRANet), Italy
- 2007-2008: Member of the Space Astrophysics Working Group of the Italian Space Agency (ASI)
- 2002- 2016: Permanent research staff member at INAF - Istituto di Astrofisica Spaziale e Fisica cosmica di Bologna, Bologna - Italy
- 1998-2001: fixed-term research staff member at CNR - Istituto T.E.S.R.E., Bologna - Italy
- 1999: Ph.D. degree in Astronomy, Università "La Sapienza" di Roma - Italy, certificated on 06/05/1999: Thesis: "The BeppoSAX Gamma Ray Burst Monitor response matrix and its application to the study of Cosmic Gamma-Ray Bursts". Advisor: Dr. E. Costa (CNR - Roma)
- [1991 – 1992: Compulsory military service]
- 1991: Laurea (= Bachelor + Master) degree in Astronomy, University of Bologna - Italy, on July 19, 1991. Advisor: Prof. G.C. Palumbo (University of Bologna)

*Notes:* INAF = Italian National Institute for Astrophysics; CNR = Italian National Research Council.

## Research activity (1995 – present)

- **Analysis and interpretation of space data from X and gamma-ray astrophysical sources:** Gamma-Ray Bursts, X-ray binaries, Cosmic X-ray Background
- **Cosmology with Gamma-Ray Bursts:** exploiting the “Amati relation” in GRBs for measuring cosmological parameters and investigating dark energy; using GRBs as probes of the early Universe (star formation rate evolution, first stars and galaxies, re.-ionization).
- **Space projects for high energy astrophysics:** BeppoSAX (1995-2002: on-ground and in-flight calibration and scientific exploitation of the GRB Monitor; member of the BeppoSAX GRB Team); Lobster-ISS (2002-2005: participation to the ESA phase-A study as responsible for the scientific requirements and definition of the GRB Monitor); Swift (since 2004: member of the Swift Team as Associate Scientist); LOFT / eXTP (since 2010: member of the proposing collaboration and Coordinator of the GRB Science Working Group during the current ESA assessment phase); ATHENA (member of WGs); THESEUS (international coordinator and lead proposer for the ESA/M4 and M5 proposals).
- **Responsible of the following funded projects:** "Studies of Gamma Ray Bursts and High Energy Sources with Swift" (by: ASI-INAF I/023/05/0; years: 2005-2006; role: Coordinator of the INAF/IASF Bologna Research Unit); "The role of Comptonization in GRBs and compact galactic and extra-galactic sources" (by: INAF; year: 2006; role: Coordinator); "A Gamma-Ray Burst Monitor (GRBM) Monitor for Lobster" (by: ASI-INAF I/088/06/0; years: 2007; role: Coordinator); " GRB physics and cosmology with spectral-energy correlations" (by: INAF; year: 2007; role: Coordinator); "A Gamma-Ray Burst Monitor (GRBM) for LWFT onboard Spectrum-RG and other soft X-ray all sky monitors" (by: ASI-INAF I/088/06/0; year: 2008; role: Coordinator); "A GRB Monitor for Lobster and other mission opportunities (SRG, MIRAX)" (by: ASI-INAF I/088/06/0; year: 2009; role: Coordinator); "Study of an Innovative Broad-band Gamma Ray Bursts and Transient Sources Monitor for Future Opportunity Missions" (by: INAF; year: 2010; role: Coordinator of the IASF Bologna research unit); "Cosmological Candles" (by the European Union in the framework of the programme FP7-PEOPLE-2013-IOF; year: 2015; role: Scientific Coordinator); "A space qualified very broad-band (1 keV - 10 MeV) monolithic detection system for Gamma-Ray Bursts and high-energy transients A space qualified very broad-band (1 keV - 10 MeV) monolithic detection system for Gamma-Ray Bursts and high-energy transients" (by INAF / Tecno-INAF 2014; year: 2015; role: National Coordinator).
- **Co-Investigator of 27 approved (by TAC) observations** with the major X-ray space observatories: BeppoSAX, Chandra, XMM, INTEGRAL

## Prizes, awards and internationally recognized main achievements

- 2002: Senior author of the article, published on *Astronomy & Astrophysics*, reporting the discovery of the  $E_{p,i} - E_{iso}$  correlation in GRBs, named by the international community “Amati relation”; since then, **the name “Amati” is included in the title of 34 articles and in the abstract of 249 articles (NASA/ADS , December 2015)**

- 2002: Award of recognition for the **relevant contribution to the *BeppoSAX* mission** by the President of the Italian Space Agency (Prof. De Julio) and the Chairman of the *BeppoSAX* Steering Committee Prof. (L. Scarsi)
- 2007: Member of the “*Swift* team” **winner of the 2007 “Bruno Rossi Prize”** by the High Energy Astrophysics Division (HEAD) of the American Astronomical Society (AAS)
- 2000: **Senior author** of the article, **published on *Science***, reporting the first discovery of an iron absorption edge in the spectrum of a Gamma-Ray Burst (GRB) and the first redshift estimate of a GRB based on X-rays measurements
- 2015:**Lead Proposer** of the THESEUS (Transient High Energy Sky and Early Universe Explorer) proposal in response to the ESA Call for next M5 mission, coordinating a large international consortium.

## Publications and Editorial activity

(see <http://www.iasfbo.inaf.it/~amati/curric/node6.html> for details)

- 148 articles on peer-reviewed international journals, 21 of which as senior (first) author
- 83 articles on conference proceedings volumes, 24 of which as senior (first) author
- Number of citations (as of August 2017): 7741 (based on NASA/ADS)
- h-index (as of August 2017): 44 (based on NASA/ADS)
- top five publications with number of citations (as of December 2015; based on NASA/ADS):
  - L. Amati, F. Frontera, M. Tavani, 2002, "Intrinsic spectra and energetics of BeppoSAX Gamma-Ray Bursts with known redshifts " , *Astronomy & Astrophysics*, 390, 81 (807 cit.)
  - L. Amati, 2006, " The Ep,i - Eiso correlation in GRBs: updated observational status, re-analysis and main implications " , Monthly Notices of the Royal Astronomical Society, 372, 233 (283 cit.)
  - L. Amati, C. Guidorzi, F. Frontera, et al., 2008, "Measuring the cosmological parameters with the Ep,i-Eiso correlation of Gamma-Ray Bursts", Monthly Notices of the Royal Astronomical Society, 391, 577 (200 cit.)
  - L. Amati, F. Frontera, M. Vietri, et al., 2000, “Discovery of a Transient Absorption Edge in the X-ray Spectrum of GRB 990705”, *Science*, 290, 955 (148 cit.)
  - L. Amati, F. Frontera, C. Guidorzi, 2009, “Extremely energetic Fermi gamma-ray bursts obey spectral energy correlations”, *Astronomy & Astrophysics*, 508, 173 (118 cit.)
- Reviewer of 45 articles for peer-reviewed main international astrophysical journals: The Astrophysical Journal, *Astronomy & Astrophysics*, *Monthly Notices of the Royal Astronomical Society*, *Publications of the Astronomical Society of Japan*, *Journal of Cosmology and Astroparticle Physics*
- Member of the Editorial Board of *International Scholarly Research Notices* (Indawi) , *Galaxies* (MDPI), *The Scientific World Journal* (Indawi)

## International Conferences and Advanced Schools

(see <http://www.iasfbo.inaf.it/~amati/curric/node4bis.html> for details)

- 34 invited presentations
- 7 solicited presentations
- 73 contributed presentations

- Member of the Scientific Organizing Committee of 6 International Conferences / Schools
- Member of the Local Organizing Committee of 4 International Conferences / Schools

## Teaching and related experience

- 2011- Member of the Faculty of the PhD Program in Physics at the University of Ferrara
- 2009- Adjunct Professor of the Faculty of the International Center for Relativistic Astrophysics Network (ICRANet), Italy
- 2005: Lecturer at the International School of Space Science 2005 (L'Aquila, Italy)
- 2007: Lecturer at the Italian National School of Astrophysics (Venice, Italy)
- 2010- Lecturer for the International Relativistic Astrophysics Ph.D (IRAP PhD)
- 2010- Lecturer for the Ph.D. Program in Physics at University of Ferrara, Italy
- 2009- Member of Commissions for the Final Examination of PhD students in Physics and relativistic astrophysics

## Complete list of Presentations at Conferences, Workshop, Schools

115) **June 2017** European Week of Astronomy and Space Science (EWASS 2017)  
Prague, Czech Republic  
(*two oral presentations*)

114) **June 2017** Multifrequency Behaviour of High Energy Cosmic Sources - XII  
Palermo, Italy  
(*invited oral presentation*)

113) **June 2017** The X-ray Universe 2017  
Roma, Italy  
(*oral presentation*)

112) **May 2017** 15th AGILE Workshop "AGILE is 10"  
Roma, Italy  
(*invited oral presentation*)

111) **February 2017** High Throughput X-ray Astronomy in the eXTP Era  
Roma, Italy  
(*solicited oral presentation*)

110) **February 2017** Bright & Dark Universe  
Napoli, Italy  
(*oral presentation*)

109) **December 2016** 9th International Workshop on Astronomical X-Ray Optics (AXRO 2016)  
Prague, Czech Republic  
(*invited oral presentation*)

108) **November 2016** EXtrAS (Exploring the X-ray Transient and variable Sky) Workshop  
Pavia, Italy  
(*oral presentation*)

107) **November 2016** IV Italian National Workshop on GRBs  
Bergamo, Italy  
(*invited session chair/rapporteur and oral presentation*)

106) **October 2016** 11th Workshop on Science with the New generation of High Energy Gamma-ray Experiments (SCINEGHE16)  
Pisa, Italy  
(*oral presentation*)

105) **September 2016** SIGRAV 2016 XXII Conference - A Century of General Relativity  
Cefalù, Italy  
(*invited oral presentation*)

104) **September 2016** Astrophysical Probes of Fundamental Physics  
Ferrara, Italy  
(*lecturer*)

103) **July 2016** Signals from the Deep Past - Unveiling Early Cosmic Structures  
Valletta, Malta  
(*oral presentation*)

102) **July 2016** European Week of Astronomy and Space Science (EWASS 2016)  
Athenis, Greece  
(*oral presentation*)

101) **June 2016** SPIE Astronomical Telescopes + Instrumentation  
Edinburgh, UK  
(*oral presentation*)

100) **December 2015** 28th Texas Symposium on Relativistic Astrophysics  
Geneve, Switzerland  
(*two oral presentations*)

99) **December 2015** Lagrange Institute Conference "Cosmology and First Light"  
Paris, France  
(*oral presentation*)

98) **November 2015** International Conference "Albert Einstein and General Theory of Relativity"  
Tirana, Albania  
(*invited oral presentation*)

97) **September 2015** IX Italian National Workshop on Compact Objects (CNOC IX)  
Monte Porzio Catone - Rome, Italy  
(*oral presentation*)

96) **September 2015** Astrophysical Probes of Fundamental Physics  
Ferrara, Italy

*(lecturer)*

95) **July 2015** Fourteenth Marcel Grossmann Meeting - MG14

Roma, Italy

*(invited oral presentation)*

94) **April 2015** ISSI-BJ Workshop on Gamma-Ray Bursts: a tool to explore the young Universe  
Beijing, China

*(invited oral presentation)*

93) **December 2014** 7th International Workshop on Astronomical X-Ray Optics (AXRO 2014)

Prague, Czech Republic

*(invited oral presentation)*

92) **December 2014** Swift: 10 Years of Discoveries

Rome, Italy

*(solicited oral presentation)*

91) **September 2014** Ioffe Workshop on GRBs and other transient sources: 20 Years of Konus-Wind Experiment

Saint Petersburg, Russia

*(invited oral presentation)*

90) **September 2014** Third Bego Rencontres - IRAP Ph.D. Erasmus Mundus school

Nice, France

*(lecturer)*

89) **July 2014** The first billion years of galaxies and black holes

Sesto (Sexten) (BZ), Italy

*(invited oral presentation)*

88) **June 2014** The Unquiet Universe

Cefalu' (PA), Italy

*(solicited oral presentation)*

87) **May 2014** LVIII Congress of the Italian Astronomical Society (SAIt)

Milano, Italy

*(invited oral presentation)*

86) **April 2014** Bologna High Energy Meeting (BOHEME) 2014

Bologna, Italy

*(oral presentation)*

85) **October 2013** Photons, Neutrinos and Gravitational Waves: a multi-messenger search of high energy astrophysical sources

Acco, Israel

*(invited oral presentation)*

84) **October 2013** Second Annual Moscow GRB Conference: Gamma-Ray Bursts New Missions  
To New Science

Moscow, Russia

*(invited oral presentation)*

83) **September 2013** VIII Italian National Workshop on Compact Objects (CNOC VIII)  
Ferrara, Italy  
*(oral presentation)*

82) **July 2013** European Week of Astronomy and Space Science (EWASS) 2013  
Turku, Finland  
*(two oral presentations)*

81) **June 2013** First LOFT UK Meeting  
London, UK  
*(invited oral presentation)*

80) **May 2013** Frascati Workshop 2013 - Multiwavelength behaviour of High-Energy Astrophysical Sources  
Palermo, Italy  
*(invited oral presentation)*

79) **May 2013** Second Bego Scientific Rencontres Meeting  
Nice, France  
*(two oral presentations as lecturer)*

78) **April 2013** Huntsville Gamma Ray Burst Symposium - GRB 2013  
Nashville TN, USA  
*(short oral / poster presentation and member of the Scientific Organizing Committee)*

77) **January 2013** Scientific perspectives in the MeV domain  
Paris, France  
*(oral presentation)*

76) **October 2012** XX SIGRAV Conference  
Napoli, Italy  
*(invited oral presentation)*

75) **September 2012** Second LOFT Science Meeting  
Toulouse, France  
*(oral presentation)*

74) **September 2012** Third Italian National Workshop on GRBs - "Lampi su Napoli"  
Napoli, Italy  
*(oral presentation and member of the Scientific Organizing Committee)*

73) **July 2012** 13th Marcel Grossmann Meeting - MG13  
Stockholm, Sweden  
*(solicited oral presentation)*

72) **June 2012** 9th Workshop on Science with the New Generation of High Energy Gamma-ray Experiments  
Lecce, Italy  
*(invited oral presentation)*

71) **June 2012** First National Meeting on Science and Technology with SKA - The Italian pathway to SKA Rome, Italy  
(*invited oral presentation*)

70) **May 2012** Gamma-Ray Bursts 2012 Conference  
Munich, Germany  
(*oral presentation*)

69) **March 2012** Death of Massive Stars: Supernovae & Gamma-Ray Bursts  
Nikko, Japan  
(*oral presentation*)

68) **November 2011** Swift and the surprising sky - The first 7 years of Swift  
Milano, Italy  
(*oral presentation*)

67) **October 2011** LOFT Science Meeting  
Amsterdam, The Netherlands  
(*oral presentation*)

66) **October 2011** Third Galileo - Xu Guangqi meeting  
Beijing, China  
(*invited oral presentation*)

65) **October 2011** IRAP Ph.D. Erasmus Mundus Workshop  
Les Houches, France  
(*invited lecturer*)

64) **September 2011** Second Ferrara Workshop on X-ray Astrophysics up to 511 keV  
Ferrara, Italy  
(*oral presentation*)

63) **July 2011** Chemical Evolution of GRB Host Galaxies  
Sexten - Sesto Pusteria (BZ), Italy  
(*oral presentation*)

62) **July 2011** 12th Italian-Korean Symposium on Relativistic Astrophysics  
Pescara, Italy  
(*oral presentation*)

61) **May 2011** Frascati Workshop 2011: Multifrequency Behaviour of High Energy Cosmic Sources  
Vulcano (ME), Italy  
(*invited oral presentation*)

60) **May 2011** GRBs as probes  
Como, Italy  
(*oral presentation*)

59) **November 2010** Gamma Ray Bursts 2010 Conference



Annapolis MD, USA  
(oral presentation)

58) **September 2010** 8th Workshop on Science with the New Generation of High Energy Gamma-ray Experiments  
Trieste, Italy  
(oral presentation)

57) **July 2010** The second Galileo - Xu Guangqi meeting  
Ventimiglia, Italy  
(oral presentation)

56) **May 2010** Vulcano Workshop 2010 - Frontier Objects in Astrophysics and Particle Physics  
Vulcano, Italy  
(invited oral presentation)

55) **May 2010** 54th Meeting of the Italian Astronomical Society (SAIT)  
Napoli, Italy  
(oral presentation)

54) **April 2010** 8th AGILE Mini-Workshop - The Third Birthday  
Bologna, Italy  
(oral presentation)

53) **September 2009** The Shocking Universe  
Venice, Italy  
(Solicited oral presentation)

52) **July 2009** Twelfth Marcel Grossmann Meeting  
Paris, France  
(Invited oral presentation)

51) **June 2009** 6th Italian-Sino Workshop on Relativistic Astrophysics  
Pescara, Italy  
(oral presentation)

50) **May 2009** Frascati Workshop 2009: Multifrequency Behaviour of High Energy Cosmic Sources  
Vulcano (ME), Italy  
(Invited oral presentation)

49) **May 2009** 53rd Meeting of the Italian Astronomical Society (SAIT)  
Pisa, Italy  
(oral presentation)

48) **February 2009** 44th Rencontres de Moriond - Very High Energy Phenomena in the Universe  
La Thuile, Italy  
(invited oral presentation)

47) **October 2008** Third Biennial Leopoldina Conference on Dark Energy  
Muenchen, Germany

*(poster presentation)*

46) **September 2008** Workshop: "Probing Stellar Populations out to the Distant Universe"  
Cefalu' (PA), Italy  
*(oral presentation)*

45) **July 2008** Third Stuckelberg Workshop  
Pescara, Italy  
*(oral presentation)*

44) **July 2008** Workshop "Dark Energy and Dark Matter"  
Lyon, France  
*(oral presentation)*

43) **May 2008** Vulcano Workshop 2008: Frontier Objects in Astrophysics and Particle Physics  
Vulcano (ME), Italy  
*(invited oral presentation)*

42) **May 2008** 52th Meeting of the Italian Astronomical Society (SAIT)  
Teramo, Italy  
*(oral presentation)*

41) **March 2008** Workshop "43rd Rencontres de Moriond - Cosmology"  
La Thuile, Italy  
*(oral presentation)*

40) **October 2007** Workshop "Five years of INTEGRAL"  
Cagliari, Italy  
*(oral presentation)*

39) **September 2007** National School of Astrophysics - Cycle IX, Course II  
Venice, Italy  
*(two lectures)*

38) **August 2007** Workshop "A century of cosmology: past, present and future"  
Venice, Italy  
*(poster presentation)*

37) **July 2007** 4th Italian-Sino Workshop: astrophysics at  $z > 6$   
Pescara, Italy  
*(oral presentation)*

36) **June 2007** 10th Italian-Korean Symposium on Relativistic Astrophysics  
Pescara, Italy  
*(oral presentation)*

35) **June 2007** VIth Marseille International Cosmology Conference: "Energetic events in the universe: from physics to Cosmology"  
Marseille, France  
*(invited oral presentation)*

- 34) **May 2007** *Workshop "Simbol-X: the hard X-ray universe in focus"*  
Bologna, Italy  
(oral presentation)
- 33) **March 2007** *Workshop "070228: the next decade of Gamma-Ray Burst afterglow"*  
Amsterdam, The Netherlands  
(oral presentation)
- 32) **December 2006** *EDGE General Meeting*  
Roma, Italy  
(oral presentation)
- 31) **November 2006** *Meeting of the Italian Swift collaboration*  
Merate, Italy  
(oral presentation)
- 30) **July 2006** *Eleventh Marcel Grossmann Meeting on General Relativity*  
Berlin, Germany  
(two oral presentation)
- 29) **June 2006** *4th Workshop on: Science with the New Generation of High Energy Gamma-ray Experiments*  
Portoferraio, Isola d'Elba, Italy  
(invited oral presentation)
- 28) **June 2006** *SWIFT and GRBs: Unveiling the Relativistic Universe*  
Venice, Italy  
(solicited oral presentation)
- 27) **November 2005** *Relativistic Astrophysics and Cosmology: the Einstein's Legacy*  
Munich, Germany  
(oral presentation)
- 26) **September 2005** *International School of Space Science 2005: Gamma-Ray Bursts: from Astrophysics to Cosmology*  
L'Aquila, Italy  
(invited lecture)
- 25) **May 2005** *Frascati Workshop 2005 Multifrequency Behavior of High Energy Cosmic Sources*  
Vulcano, Italy  
(invited oral presentation)
- 24) **October 2004** *Fourth Workshop Gamma-Ray Bursts in the Afterglow Era*  
Roma, Italy  
(solicited oral presentation)
- 23) **July 2004** *35th COSPAR Scientific Assembly*  
Paris, France  
(poster presentation)
- 22) **June 2004** *Second Workshop on Science with the new generation of high energy Gamma-ray*

*experiments*

Bari, Italy

(oral presentation)

21) **April 2004** XLVIII Congresso della Società Astronomica Italiana *SAIT 2004*

Milano, Italy

(*invited oral presentation*)

20) **December 2003** Third National Workshop on *Compact Object Astrophysics (CNOA)*

Monte Porzio Carone (RM), Italy

(oral presentation)

19) **August 2003** JENAM Conference 2003 - Minisymposium *Physics of Gamma-Ray Bursts*

Budapest, Hungary

(*invited oral presentation*)

18) **May - June 2003** Frascati Workshop 2003 *Multifrequency Behavior of High Energy Cosmic Sources*

Vulcano, Italy

(*invited oral presentation*)

17) **May 2003** International Workshop *The Restless High Energy Universe*

Amsterdam, NL

(poster presentation)

16) **September 2002** Third Symposium *Gamma-Ray Bursts in the Afterglow Era*

Roma

(oral presentation and **member of the Local Organizing Committee**)

15) **July 2002** International Advanced School "Leonardo da Vinci" - Summer Course 2002:

*Mission concept and payload design in X- and Gamma-ray Astronomy*

Bologna, Italy

(**Member of the School Organizing Committee**)

14) **December 2001** First National Workshop on *Gamma-Ray Bursts*

Monte Porzio Catone, Italy

(oral presentation)

13) **September 2001** Second National Workshop on *Compact Object Astrophysics (CNOA)*

Bologna, Italy

(oral presentation and **member of the Local Organizing Committee**)

12) **May 2001** Frascati Workshop 2001 *Multifrequency Behavior of High Energy Cosmic Sources*

Vulcano, Italy

(oral presentation)

11) **May 2001** XLV Congresso della Società Astronomica Italiana *SAIT 2001* Bologna

(oral presentation)

10)) **October 2000** Secondo Symposium *Gamma-Ray Bursts in the Afterglow Era*

Roma

(oral presentation)

9) **May 2000** IX Convegno del Gruppo Nazionale di Fisica Cosmica  
Lecce

(oral presentation)

8) **September 1999** LXXXV Congresso Nazionale della Società Italiana di Fisica  
Pavia

(oral presentation)

7) **September 1999** Symposium *X-ray Astronomy '999*  
Bologna

(poster presentation)

6) **May 1999** Congresso Nazionale *Oggetti Compatti (CNO)*  
Como

(oral presentation)

5) **November 1998** Symposium *Gamma-Ray Bursts in the Afterglow Era*  
Roma

(poster presentation and **member of the Local Organizing Committee**)

4) **September - October 1998** LXXXIV Congresso Nazionale della Società Italiana di Fisica  
Salerno

(oral presentation)

3) **October 1997** Symposium *The Active X-Ray Sky*, Accademia dei Lincei  
Roma

(poster presentation)

2) **July - August 1997** 42simo SPIE's International Symposium on Optical Science, Engineering,  
and Instrumentation  
San Diego, California, USA

(oral presentation)

1) **April 1997** VII Symposium Nazionale del Gruppo Italiano di Fisica Cosmica  
Villa Olmo (CO)

(poster presentation)

## Complete list of Publications

### Publications on International Refereed Journals (148)

- 148) R. Martone, L. Izzo, M. Della Valle, **L. Amati**, G. Longo, D. Gotz, **2017**, "*False outliers of the  $E_{p,i}$  - Eiso correlation?*", **Astronomy & Astrophysics**, in press
- 147) M. Demianski, E. Piedipalumbo, D. Sawant, **L. Amati**, **2017**, "*Cosmology with gamma-ray bursts. II. Cosmography issues and cosmological scenarios for the accelerated Universe*", **Astronomy & Astrophysics**, **598**, A113

- 146) M. Demianski, E. Piedipalumbo, D. Sawant, **L. Amati**, 2017, "Cosmology with gamma-ray bursts. I. The Hubble diagram through the calibrated  $E_p,i$  - Eiso correlation", **Astronomy & Astrophysics**, **598**, A112
- 145) W., Yuan, **L. Amati**, J.K. Cannizzo, B. Cordier, N. Gehrels, G. Ghirlanda, D. Götz, N. Produit, Y. Qiu, J. Sun, N.R. Tanvir, J. Wei, C. Zhang, 2016, "Perspectives on Gamma-Ray Burst Physics and Cosmology with Next Generation Facilities", **Space Science Reviews**, **202**, 235
- 144) **L. Amati**, D.S. Sawant, M. Della Valle, 2016, "GRB cosmology through the  $E_p,i$  - intensity correlation", **Astronomical and Astrophysical Transactions**, **29/2**, 193
- 143) B. P. Abbott, R. Abbott, T. D. Abbott, M. R. Abernathy, F. Acernese, ..., **L. Amati**, et al., 2016, "Supplement: Localization and broadband follow-up of the gravitational-wave transient GW150914", **The Astrophysical Journal Supplement**, **225**, 8
- 142) B. P. Abbott, R. Abbott, T. D. Abbott, M. R. Abernathy, F. Acernese, ..., **L. Amati**, et al., 2016, "Localization and broadband follow-up of the gravitational-wave transient GW150914", **The Astrophysical Journal Letters**, **826**, L13
- 141) C. Guidorzi, S. Dichiara, **L. Amati**, 2016, "Individual power density spectra of Swift gamma-ray bursts", **Astronomy & Astrophysics**, **589**, A98
- 140) S. Dichiara, C. Guidorzi, **L. Amati**, F. Frontera, R. Margutti, 2016, "A correlation between peak energy and Fourier power density spectrum slope in Gamma-Ray Bursts", **Astronomy & Astrophysics**, **589**, A97
- 139) O. Bardho, B. Gendre, A. Rossi, **L. Amati**, J. Haislip, A. Klotz, E. Palazzi, D. Reichart, A.S. Trotter, M. Boer, 2016, "GRB 141221A: gone as the wind", **Monthly Notices of the Royal Astronomical Society**, **459**, 508
- 138) F. Frontera, **L. Amati**, R. Farinelli, S. Dichiara, C. Guidorzi, R. Landi, L. Titarchuk, 2016, "Possible physical explanation of the intrinsic  $E_p,i$ -intensity correlation commonly used to standardize GRBs", **International Journal of Modern Physics D**, **25**, 1630014
- 137) E. Zaninoni, M.G. Bernardini, R. Margutti, **L. Amati**, 2016, "Update on the GRB universal scaling  $Ex,iso-Egamma,iso-Epk$  with ten years of Swift data.", **Monthly Notices of the Royal Astronomical Society**, **455**, 1375
- 136) L. Izzo, M. Muccino, E. Zaninoni, **L. Amati**, M. Della Valle, 2015, "A new measurement of Omega M from Gamma-Ray Bursts", **Astronomy & Astrophysics**, **582**, A115
- 135) G. Ghirlanda, R. Salvaterra, G. Ghisellini, S. Mereghetti, G. Tagliaferri, S. Campana, J. P. Osborne, P. O'Brien, N. Tanvir, D. Willingale, **L. Amati**, S. Basa, M.G. Bernardini, D. Burlon, S. Covino, P. D'Avanzo, F. Frontera, D. Gotz, A. Melandri, L. Nava, L. Piro, S. D. Vergani, 2015, "Assessing the population of high redshift Gamma Ray Bursts", **Monthly Notices of the Royal Astronomical Society**, **448**, 2514
- 134) C. Guidorzi, S. Dichiara, F. Frontera, R. Margutti, A. Baldeschi, **L. Amati**, 2015, "A common stochastic process rules gamma-ray burst prompt emission and X-ray flares", **The Astrophysical Journal**, **801**, 57

- 133) A. Rossi, S. Piranomonte, S. Savaglio, E. Palazzi, M.J. Micha.owski, S. Klose, L.K. Hunt, **L. Amati**, J. Elliott, J. Greiner, C. Guidorzi, J. Japelj, D.A. Kann, B. Lo Faro, A. Nicuesa Guelbenzu, S. Schulze, et al., **2014**, "*A quiescent galaxy at the position of the long GRB 050219A*", **Astronomy & Astrophysics**, **572**, **A47**
- 132) M. Kovacevic, L. Izzo, Y. Wang, M. Muccino, M. Della Valle, **L. Amati**, C. Barbarino, M. Enderli, G.B. Pisani, L. Li, **2014**, "*On the origin of short GRBs with Extended Emission and long GRBs without associated SN*", **Astronomy & Astrophysics**, **569**, **A108**
- 131) M. Van Putten, G. Min Lee, M. Della Valle, **L. Amati**, A. Levinson, **2014**, "*On the origin of short GRBs with Extended Emission and long GRBs without associated SN*", **MNRAS**, **444**, **L58**
- 130) **L. Amati**, **2014**, "*Measuring the Universe with Gamma-Ray Bursts: status, perspectives and SKA contribution*", **Annalen der Physik**, **526**, **340**
- 129) A. Melandri, E. Pian, V. D.Elia, P. D.Avanzo, M. Della Valle, P.A. Mazzali, G. Tagliaferri, Z. Cano, A.J. Levan, P. M.oller, **L. Amati**, et al., **2014**, "*Diversity of GRB energetics vs. SN homogeneity: supernova 2013cq associated with the gamma-ray burst 130427A*", **Astronomy & Astrophysics**, **567**, **A29**
- 128) **L. Amati**, R. Campana, Y. Evangelista, M. Feroci, F. Fuschino, C. Labanti, R. Salvaterra, G. Stratta, G. Tagliaferri, F. Frontera, C. Guidorzi, P. Rosati, L. Titarchuk, J. Braga, A. Penacchioni, R. Ruffini, L. Izzo, N. Zampa, A. Vacchi, A. Santangelo, R. Hudec, A. Gomboc, and T. Rodic, **2014**, "*GAME: Grb and All-sky Monitor Experiment*", **International Journal of Modern Physics D**, **23**, **1430010**
- 127) G. Castignani, D. Guetta, E. Pian, **L. Amati**, S. Puccetti, S. Dichiara, **2014**, "*Time delays between Fermi LAT and GBM light curves of GRBs*", **Astronomy & Astrophysics**, **565**, **A60**
- 126) F. Frontera, **L. Amati**, R. Farinelli, S. Dichiara, C. Guidorzi, R. Landi, L. Titarchuk, **2013**, "*Comptonization signatures in the prompt emission of Gamma Ray Bursts*", **The Astrophysical Journal**, **779**, **175**
- 125) **L. Amati** and M. Della Valle, **2013**, "*Measuring cosmological parameters with Gamma-Ray Bursts*", **International Journal of Modern Physics D**, **22/14**, **1330028**
- 124) S. Dichiara, C. Guidorzi, F. Frontera, **L. Amati**, **2013**, "*A Search for Pulsations in Short Gamma--Ray Bursts to Constrain their Progenitors*", **The Astrophysical Journal**, **777**, **132**
- 123) V.D. Pal'shin, K. Hurley, D.S. Svinkin, R.L. Aptekar, S.V. Golenetskii, D.D. Frederiks, E.P. Mazets, P.P. Oleynik, M.V. Ulanov, T. Cline, I.G. Mitrofanov, ..., **L. Amati**, et al., **2013**, "*Interplanetary Network Localizations of Konus Short Gamma-Ray Bursts*", **The Astrophysical Journal Supplement**, **207**, **38**
- 122) S. Dichiara, C. Guidorzi, **L. Amati**, F. Frontera, **2013**, "*Average power density spectrum of long GRBs detected with BeppoSAX/GRBM and with Fermi/GBM*", **Monthly Notices of the Royal Astronomical Society**, **431**, **3608**

- 121) **L. Amati**, M. Della Valle, **2013**, "*Cosmology with Gamma-Ray Bursts: status and perspectives*", **Astronomical Review**, **8**, **90**
- 120) R. Farinelli, **L. Amati**, F. Frontera, R. Landi, E. Palazzi, N. Shaposhnikov, L. Titarchuk, N. Masetti, C. Lombardi, M. Orlandini, **2013**, "*Spectral evolution of the X-ray nova XTE J1859+226 during its outburst observed by BeppoSAX and RXTE*", **Monthly Notices of the Royal Astronomical Society**, **428**, **3295**
- 119) A. Melandri, E. Pian, P. Ferrero, P. D'Avanzo, E. S. Walker, G. Ghirlanda, S. Covino, **L. Amati**, V. D'Elia, P. A. Mazzali, M. Della Valle, C. Guidorzi, L. A. Antonelli, M. G. Bernardini, F. Bufano, et al., **2012**, "*The Optical SN 2012bz Associated with the Long GRB 120422A*", **Astronomy & Astrophysics**, **547**, **A82**
- 118) A. Rossi, S. Klose, P. Ferrero, J. Greiner, L. A. Arnold, E. Gonsalves, D. H. Hartmann, A. C. Updike, D. A. Kann, T. Kruhler, E. Palazzi, S. Savaglio, S. Schulze, P. M. J. Afonso, **L. Amati**, et al., **2012**, "*A deep search for the host galaxies of GRBs with no detected optical afterglow*", **Astronomy & Astrophysics**, **545**, **A77**
- 117) F. Frontera, **L. Amati**, C. Guidorzi, R. Landi, J. in 't Zand, **2012**, "*Broad band time-resolved  $E_p,i$  - Liso correlation in GRBs*", **The Astrophysical Journal**, **754**, **138**
- 116) F. Bufano, E. Pian, J. Sollerman, S. Benetti, G. Pignata, S. Valenti, S. Covino, P. D'Avanzo, D. Malesani, E. Cappellaro, M. Della Valle, J. Fynbo, J. Hjorth, P.A. Mazzali, D.E. Reichart, R.L.C. Starling, M. Turatto, S.D. Vergani, K. Wiersema, **L. Amati**, et al., **2012**, "*The Highly Energetic Expansion of SN 2010bh Associated with GRB 100316D*", **The Astrophysical Journal**, **753**, **67**
- 115) L. Titarchuk, R. Farinelli, F. Frontera, **L. Amati**, **2012**, "*An upscattering spectral formation model for the prompt emission of Gamma-Ray Bursts*", **The Astrophysical Journal**, **752**, **116**
- 114) C. Guidorzi, R. Margutti, **L. Amati**, S. Campana, M. Orlandini, P. Romano, M. Stamatikos, G. Tagliaferri, **2012**, "*Average power density spectrum of Swift long gamma-ray bursts in the observer and in the source rest frames*", **Monthly Notices of the Royal Astronomical Society**, **422**, **1785**
- 113) A.V. Penacchioni, R. Ruffini, L. Izzo, M. Muccino, C.L. Bianco, L. Caito, B. Patricelli, **L. Amati**, **2012**, "*Evidence for a proto-black hole and a double astrophysical component in GRB 101023*", **Astronomy & Astrophysics**, **538**, **A58**
- 112) M. Feroci, L. Stella, M. van der Klis, T. Corvoursier, M. Hernanz, R. Hudec, A. Santangelo, D. Walton, A. Zdziarski, ..., M. Abramowicz, A. Alpar, D. Altamirano, J. M. Alvarez, **L. Amati**, et al., **2012**, "*The Large Observatory for X-ray Timing (LOFT)*", **Experimental Astronomy**, **34**, **415**
- 111) J.W. den Herder, L. Piro, T. Ohashi, C. Kouveliotou, D.H. Hartmann, J.S. Kaastra, **L. Amati**, M. Andersen, M. Arnaud, J.L. Atteia, et al., **2012**, "*ORIGIN: Metal Creation and Evolution from the Cosmic Dawn*", **Experimental Astronomy**, **34**, **519**
- 110) A. Cucchiara, A.J. Levan, D.B. Fox, N.R. Tanvir, T.N. Ukwatta, E. Berger, T. Kruehler, A. Kupku Yoldas, X.F. Wu, K. Toma, J. Greiner, F. Olivares, A. Rowlinson, **L. Amati**, T. Sakamoto, K. Roth, A. Stephens, J.P.U. Fynbo, J. Hjorth, D. Malesani, P.



Jakobsson, et al., **2011**, "*A photometric redshift of  $z \sim 9.4$  for GRB 090429B*" , **The Astrophysical Journal**, **736**, **7**

- 109) **L. Amati**, M. Feroci, F. Frontera, C. Labanti, A. Vacchi, A. Argan, R. Campana, E. Costa, R. Ruffini, et al., **2011**, "*A proposed Italian contribution to the MIRAX Scientific payload*" , **Il Nuovo Cimento C**, **34**, **3**
- 108) Y. Takei, E. Ursino, E. Branchini, T. Ohashi, H. Kawahara, K. Mitsuda, L. Piro, A. Corsi, **L. Amati**, J.W. den Herder, M. Galeazzi, J. Kaastra, L. Moscardini, F. Nicastro, F. Paerels, M. Roncarelli and M. Viel, **2011**, "*Studying the Warm-Hot Intergalactic Medium in Emission*" , **The Astrophysical Journal**, **697**, **328**
- 107) A. Rossi, S. Schulze, S. Klose, D.A. Kann, A. Rau, H.A. Krimm, G. Johannesson, A. Panaitescu, F. Yuan, P. Ferrero, T. Krauhler, J. Greiner, P. Schady, S.B. Pandey, **L. Amati**, et al. **2011**, "*The Swift/ FermiGRB 080928 from 1 eV to 150 keV*" , **Astronomy & Astrophysics**, **529**, **A142**
- 106) G. De Barros, **L. Amati**, M.G. Bernardini, C.L. Bianco, L. Caito, L. Izzo, B. Patricelli, and R. Ruffini, **2011**, "*On the nature of GRB 050509b: a disguised short GRB.*" , **Astronomy & Astrophysics**, **529**, **A130**
- 105) C. Guidorzi, M. La Capra, F. Frontera, E. Montanari, **L. Amati**, F. Calura, L. Nicastro,, M. Orlandini, **2011**, "*Spectral catalogue of bright gamma-ray bursts detected with the BeppoSAX/GRBM*" , **Astronomy & Astrophysics**, **526**, **A49**
- 104) A. de Ugarte Postigo, I. Horvath, P. Veres, Z. Bagoly, D. A. Kann, C. C. Thoene, L. G. Balazs, P. D'Avanzo, M. A. Aloy, S. Foley, S. Campana, J. Mao, P. Jakobsson, S. Covino, J. P. U. Fynbo, J. Gorosabel, A. J. Castro-Tirado, **L. Amati**, M. Nardini, **2011**, "*Characteristics of Swift's intermediate-population bursts*" , **Astronomy & Astrophysics**, **525**, **A109**
- 103) L. Caito, **L. Amati**, M.G. Bernardini, C.L. Bianco, G. De Barros, L. Izzo, B. Patricelli, R. Ruffini, **2010**, "*GRB 071227: an additional case of disguised short burst*" , **Astronomy & Astrophysics**, **521**, **A80**
- 102) S. Covino, S. Campana, M. L. Conciatore, V. D.Elia, E. Palazzi, C. C. Thoene, S. D. Vergani, K. Wiersema, M. Brusasca, A. Cucchiara, B.E. Cobb, A. Fernandez-Soto, D.A. Kann, D. Malesani, N.R. Tanvir, L.A. Antonelli, M. Bremer, A.J. Castro-Tirado, A. de Ugarte Postigo, E. Molinari, L. Nicastro, M. Stefanon, V. Testa, G. Tosti, F. Vitali, **L. Amati**, et al., **2010**, "*Challenging GRB models through the broadband dataset of GRB060908*" , **Astronomy & Astrophysics**, **521**, **A53**
- 101) **L. Amati**, **2010**, "*The correlation between peak photon energy and radiated energy in Gamma-Ray Bursts*" , **Journal of the Korean Physical Society**, **56**, **1603**
- 100) **L. Amati**, F. Frontera, C. Guidorzi, **2009**, "*Extremely energetic Fermi Gamma-Ray Bursts obey spectral energy correlations*" , **Astronomy & Astrophysics**, **508**, **173**
- 99) L. A. Antonelli, P. D'Avanzo, R. Perna, **L. Amati**, S. Covino, S. Cutini, V. D.Elia, S. Gallozzi, A. Grazian, E. Palazzi, S. Piranomonte, A. Rossi, S. Spiro, L. Stella, V. Testa, G. Chincarini, A. Di Paola, D. Fugazza, E. Giallongo, E. Maiorano, N. Masetti, F. Pedichini, R. Salvaterra, G. Tagliaferri, S. Vergani **2009**, "*GRB090426: the farthest short gamma-ray burst?*" , **Astronomy & Astrophysics**, **507**, **L45**

- 98) R. Salvaterra, M. Della Valle, S. Campana, G. Chincarini, S. Covino, P. D'Avanzo, A. Fernandez-Soto, C. Guidorzi, F. Mannucci, R. Margutti, C.C. Thone, L.A. Antonelli, S.D. Barthelmy, M. De Pasquale, V. D'Elia, F. Fiore, D. Fugazza, L.K. Hunt, E. Maiorano, S. Marinoni, F.E. Marshall, E. Molinari, J. Nousek, E. Pian, J.L. Racusin, L. Stella, **L. Amati**, et al. **2009**, "GRB 090423 at a redshift of  $z$  approximately 8.1", **Nature**, **461**, **1258**
- 97) E. Branchini, E. Ursino, A. Corsi, D. Martizzi, **L. Amati**, J.W. den Herder, M. Galeazzi, B. Gendre, J. Kaastra, L. Moscardini, F. Nicastro, T. Ohashi, F. Paerels, L. Piro, M. Roncarelli, Y. Takei, M. Viel, **2009**, "Studying the WHIM with Gamma Ray Bursts", **The Astrophysical Journal**, **697**, **328**
- 96) P. Ferrero, S. Klose, D. A. Kann, S. Savaglio, E. Palazzi, E. Maiorano, P. Böhm, S. Schulze, D. Grupe, S. R. Oates, S. F. Sánchez, **L. Amati**, et al., **2009**, "Analysing afterglows using integral field spectroscopy: GRB 060605, the first practical example", **Astronomy & Astrophysics**, **497**, **729**
- 95) F. Frontera, C. Guidorzi, E. Montanari, F. Rossi, E. Costa, M. Feroci, F. Calura, M. Rapisarda, **L. Amati**, D. Carturan, M. R. Cinti, D. Dal Fiume, L. Nicastro, M. Orlandini, **2009**, "The Gamma-Ray Burst catalog obtained with the Gamma Ray Burst Monitor Aboard BeppoSAX", **The Astrophysical Journal Supplement**, **180**, **192**
- 94) L. Piro, J.W. den Herder, T. Ohashi, **L. Amati**, et al., **2009**, "EDGE: Explorer of diffuse emission and gamma-ray burst explosions", **Experimental Astronomy**, **23**, **69**
- 93) **L. Amati**, C. Guidorzi, F. Frontera, M. Della Valle, F. Finelli, R. Landi, E. montanari, **2008**, "Measuring the cosmological parameters with the  $E_{p,i}$ - $E_{iso}$  correlation of Gamma-Ray Bursts", **Monthly Notices of the Royal Astronomical Society**, **391**, **577**
- 92) F. Rossi, C. Guidorzi, **L. Amati**, F. Frontera, P. Romano, S. Campana, G. Chincarini, E. Montanari, A. Moretti, G. Tagliaferri, **2008**, "Testing the  $E_{p,i}$  -  $L_{p,iso}$  -  $T$  0.45 correlation on a BeppoSAX and Swift sample of gamma-ray bursts", **Monthly Notices of the Royal Astronomical Society**, **388**, **1284**
- 91) S. Covino, P. D'Avanzo, A. Klotz, D.A. Perley, **L. Amati**, et al., **2008**, "The complex light-curve of the afterglow of GRB071010A", **Monthly Notices of the Royal Astronomical Society**, **388**, **347**
- 90) M. Marisaldi, C. Labanti, F. Fuschino, **L. Amati**, **2008**, "A broad energy range wide field monitor for next generation gamma-ray burst experiments", **Nuclear Instruments and Methods in Physics Research Section A**, **588**, **37**
- 89) F. Frontera, M. Orlandini, R. Landi, A. Comastri, F. Fiore, G. Setti, **L. Amati**, E. Costa, N. Masetti, E. Palazzi, **2007**, "The cosmic X-ray background and the population of the most heavily obscured AGN", **The Astrophysical Journal**, **666**, **86**
- 88) C.G. Mundell, A. Melandri, C. Guidorzi, S. Kobayashi, I.A. Steele, D. Malesani, **L. Amati**, P. D'Avanzo, D.F. Bersier, A. Gomboc, E. Rol, M.F. Bode, D. Carter, C.J. Mottram, A. Monfardini, R.J. Smith, S. Malhotra, J. Wang, N. Bannister, P.T. O'Brien, N.R. Tanvir, **2007**, "The Remarkable Afterglow of GRB 061007: Implications for Optical Flashes and GRB Fireballs", **The Astrophysical Journal**, **660**, **489**

- 87) N. Masetti, E. Rigon, E. Maiorano, G. Cusumano, E. Palazzi, M. Orlandini, **L. Amati**, F. Frontera, **2007**, "*X-ray broad-band study of the symbiotic X-ray binary 4U 1954+31*" , **Astronomy & Astrophysics**, **464**, **277**
- 86) **L. Amati**, M. della Valle, F. Frontera, D. Malesani, C. Guidorzi, E. Montanari, E. Pian, **2007**, "*On the consistency of the peculiar GRBs 060218 and 060614 with the  $E_{p,i}$  - Eiso correlation*" , **Astronomy & Astrophysics**, **463**, **913**
- 85) **L. Amati**, F. Frontera, N. Auricchio, E. Caroli, A. Basili, A. Bogliolo, G. Di Domenico, T. Franceschini, C. Guidorzi, G. Landini, N. Masetti, E. Montanari, M. Orlandini, E. Palazzi, S. Silvestri, J.B. Stephen, G. Ventura, **2006**, "*The Gamma-Ray Burst Monitor for Lobster-ISS*" , **Advances in Space Research**, **38**, **1333**
- 84) R. Landi, L. Bassani, A. Malizia, **L. Amati**, M. Orlandini, **2006**, "*Searching for serendipitous sources at high galactic latitudes with BeppoSAX/PDS*" , **Advances in Space Research**, **38**, **1425**,
- 83) **L. Amati**, **2006**, "*The  $E_{p,i}$  - Eiso correlation in GRBs: updated observational status, re-analysis and main implications*" , **Monthly Notices of the Royal Astronomical Society**, **372**, **233**
- 82) **L. Amati**, **2006**, "*Swift GRBs and the  $E_{p,i}$  - E iso correlation*" , **Il Nuovo Cimento B**, **vol. 121**, **pag. 1081**
- 81) E. Pian, P.A. Mazzali, N. Masetti, P. Ferrero, S. Kolse, E. Palazzi, ..., **L. Amati**, et al., **2006**, "*An optical supernova associated with the X-ray flash XRF 060218*" , **Nature**, **442**, **1011**
- 80) R. Landi, **L. Amati**, F. Frontera, C. Guidorzi, E. Montanari, **2006**, "*Investigating the dispersion of the  $E_{p,i}$  - E iso correlation*" , **Il Nuovo Cimento B**, **vol. 121**, **pag. 1503**
- 79) C. Guidorzi, F. Frontera, E. Montanari, F. Rossi, **L. Amati**, A. Gomboc, C.G. Mundell, **2006**, "*The slope of the GRB Variability/Peak Luminosity Correlation*" , **Monthly Notices of the Royal Astronomical Society**, **371**, **843**
- 78) M. De Pasquale, L. Piro, B. Gendre, **L. Amati**, E. Costa, M. Feroci, F. Frontera, J. Heise, L. Nicastro, P. Soffitta, and J. in't Zand **2006**, "*The BeppoSAX catalog of GRB X-ray afterglow observations*" , , **Astronomy & Astrophysics**, **455**, **813**
- 77) E. Maiorano, N. Masetti, E. Palazzi, S. Savaglio, E. Rol, P.M. Vreeswijk, E. Pian, P.A. Price, B.A. Peterson, M. Jelinek, **L. Amati**, M.I. Andersen, A.J. Castro-Tirado, J.M. Castro Cerón, A. de Ugarte Postigo, F. Frontera, A.S. Fruchter, J.P.U. Fynbo, J. Gorosabel, A.A. Henden, J. Hjorth, B.L. Jensen, S. Klose, C. Kouveliotou, G. Masi, P. Møller, L. Nicastro, E.O. Ofek, S.B. Pandey, J. Rhoads, N.R. Tanvir, R.A.M.J. Wijers, E.P.J. van den Heuvel, **2006**, "*Physics of the GRB 030328 afterglow and its environment*" , , **Astronomy & Astrophysics**, **455**, **423**
- 76) N. Masetti, M. Orlandini, E. Palazzi, **L. Amati**, F. Frontera, **2006**, "*M-type giants as optical counterparts of X-ray sources 4U 1700+24 and 4U 1954+319*" , , **Astronomy & Astrophysics**, **453**, **295**

- 75) N. Masetti, M. Orlandini, D. Dal Fiume, S. Del Sordo, **L. Amati**, F. Frontera, A. Santangelo, **2006**, "*The BeppoSAX view on the Galactic Massive X-ray Binary 4U 0114+65*", **Astronomy & Astrophysics**, **445**, **653**
- 74) E. Caroli, N. Auricchio, **L. Amati**, Y. Bezsolnnyy, C. Budtz-Jørgensen, R.M. Curado da Silva, F. Frontera, A. Pisa, S. Del Sordo, J. B. Stephen, G. Ventura, **2005**, "*A focal plane detector design for a wide-band Laue-lens telescope*", **Experimental Astronomy**, **20**, **341**
- 73) Frontera, F., Pisa, A., Loffredo, G., Pellicciotta, D., Carassiti, V., Evangelisti, F., Andersen, K., Courtois, P., **L. Amati**, Caroli, E., Franceschini, T., Landini, G., Silvestri, S., Stephen, J., **2005**, "*HAXTEL: A Laue lens telescope development project for a deep exploration of the hard X-ray sky (? 60 keV)*", **Experimental Astronomy**, **20**, **241**
- 72) C. Guidorzi, F. Frontera, E. Montanari, F. Rossi, **L. Amati**, A. Gomboc, K. Hurley, C.G. Mundell, **2005**, "*The GRB variability/peak luminosity correlation: new results*", **Monthly Notices of the Royal Astronomical Society**, **363**, **315**
- 71) F. Frontera, **L. Amati**, Auricchio, N.; Caroli, E.; Basili, A.; Bogliolo, A.; di Domenico, G.; Franceschini, T.; Guidorzi, C.; Landini, G.; Masetti, N.; Montanari, E.; Orlandini, M.; Palazzi, E.; Silvestri, S.; Stephen, J. B.; Ventura, G., **2005**, "*The Gamma-Ray Burst Monitor for Lobster-ISS*", **Il Nuovo Cimento C**, **28**, **813**
- 70) M. Perri, M. Capalbi, P. Giommi, **L. Amati**, F. Frontera, G. Chincarini, S. Campana, A. Moretti, P. Romano, G. Tagliaferri, G. Cusumano, V. La Parola, V. Mangano, T. Mineo, D.N. Burrows, J.E. Hill, J.A. Kennea, D.C. Morris, C. Pagani, J.A. Nousek, L. Angelini, N. Gehrels, M. Still, A.P. Beardmore, M.R. Goad, O. Godet, P.T. O'Brien, J.P. Osborne, K.L. Page **2005**, "*Swift XRT Observations of the Breaking Xray Afterglow of GRB 050318*", **Astronomy & Astrophysics**, **442**, **L1**
- 69) A. Corsi, L. Piro, E. Kuulkers, **L. Amati**, L. A. Antonelli, E. Costa, M. Feroci, F. Frontera, C. Guidorzi, J. Heise, J. in't Zand, E. Maiorano, E. Montanari, L. Nicastro, E. Pian, P. Soffitta, **2005**, "*The puzzling case of GRB 990123: prompt emission and broad-band afterglow modeling*", **Astronomy & Astrophysics**, **438**, **829**
- 68) Maiorano, E.; Masetti, N.; Palazzi, E.; Frontera, F.; Grandi, P.; Pian, E., **L. Amati**, Nicastro, L.; Soffitta, P.; Corsi, A.; Piro, L.; Antonelli, L. A.; Costa, E.; Feroci, M.; Heise, J.; in't Zand, J. J. M., **2005**, "*GRB990123: Multiwavelength afterglow study*", **Il Nuovo Cimento C**, **28**, **525**
- 67) Corsi, A., Piro, L., Kuulkers, E., **L. Amati**, Antonelli, L. A.; Costa, E.; Feroci, M.; Frontera, F.; Guidorzi, C.; Heise, J.; in't Zand, J.; Maiorano, E.; Montanari, E.; Nicastro, L.; Pian, E.; Soffitta, P., **2005**, "*The GRB of 1999 January 23: Prompt emission and broad-band afterglow modeling*", **Il Nuovo Cimento C**, **28**, **493**
- 66) E. Maiorano, N. Masetti, E. Palazzi, F. Frontera, P. Grandi, E. Pian, **L. Amati**, L. Nicastro, P. Soffitta, C. Guidorzi, R. Landi, E. Montanari, M. Orlandini, A. Corsi, L. Piro, L.A. Antonelli, E. Costa, M. Feroci, J. Heise, E. Kuulkers, J.J.M. in't Zand, **2005**, "*The puzzling case of GRB 990123: multiwavelength afterglow study*", **Astronomy & Astrophysics**, **438**, **821**
- 65) D. Carturan, C. Guidorzi, E. Montanari, F. Frontera, **L. Amati**, **2005**, "*The BeppoSAX/GRBM catalog of GRBs: Current status*", **Il Nuovo Cimento C**, **28**, **279**

- 64) **L. Amati**, 2005, "*The correlation between peak energy and isotropic radiated energy in GRBs*", **Il Nuovo Cimento C**, **28**, **251**
- 63) N. Masetti, E. Palazzi, E. Pian, L. Hunt, J.P.U. Fynbo, J. Gorosabel, S. Klose, S. Benetti, R. Falomo, A. Zeh, **L. Amati**, M.I. Andersen, A.J. Castro-Tirado, J.M. Castro Ceron, J. Danziger, F. Frontera, A.S. Fruchter, J. Greiner, J. Hjorth, B.L. Jensen, L. Kaper, C. Kouveliotou, A. Leván, A. Magazzu, P. Moller, L. Nicastro, H. Pedersen, N.R. Tanvir, P.M. Vreeswijk, R.A.M.J. Wijers, E.P.J. van den Heuvel, 2005, "*Late-epoch optical and near-infrared observations of the GRB000911 afterglow and its host galaxy*", **Astronomy & Astrophysics**, **438**, **841**
- 62) R. Farinelli, F. Frontera, A.A. Zdziarski, L. Stella, S.N. Zhang, M. van der Klis, N. Masetti, **L. Amati**, 2005, "*The hard X-ray tail of GX 17+2: new BeppoSAX results*", **Astronomy & Astrophysics**, **434**, **25**
- 61) L. Piro, M. De Pasquale, P. Soffitta, **L. Amati**, E. Costa, M. Feroci, C. Guidorzi, J.J.M. in 't Zand, E. Montanari, L. Nicastro, 2005, "*Probing the environment in Gamma-ray bursts: the case of an X-ray precursor, afterglow late onset and wind vs constant density profile in GRB01121 and GRB011211*", **The Astrophysical Journal**, **623**, **314**
- 60) F. Frontera, **L. Amati**, J.J.M. in 't Zand, D. Lazzati, A. Konigl, M. Vietri, E. Costa, M. Feroci, C. Guidorzi, E. Montanari, M. Orlandini, E. Pian, L. Piro, 2004, "*The prompt X-ray emission of GRB011211: possible evidence of a transient absorption feature*", **The Astrophysical Journal**, **616**, **1078**
- 59) E. Pian, P. Giommi, **L. Amati**, E. Costa, J. Danziger, M. Feroci, M.T. Focchi, F. Frontera, C. Kouveliotou, N. Masetti, L. Nicastro, E. Palazzi, L. Piro, M. Tavani, J.J.M. in 't Zand, 2004, "*XMM-Newton observations of the field of gamma-ray burst 980425*", **Advances in Space Research**, **34**, **2711**
- 58) L. Nicastro, J.J.M. in 't Zand, **L. Amati**, E. Mazets, A. Castro-Tirado, J. Gorosabel, D. Lazzati, E. Costa, M. De Pasquale, M. Feroci, F. Frontera, J. Heise, E. Pian, L. Piro, C. Sanchez-Fernandez, P. Tristram, 2004, "*Multiwavelength study of the very long GRB 020410*", **Astronomy & Astrophysics**, **427**, **445**
- 57) M. Cadolle Bel, J. Rodriguez, P. Sizun, R. Farinelli, M. Del Santo, A. Goldwrun, P. Goldoni, S. Corbel, A.N. Parmar, E. Kuulkers, P. Ubertini, F. Capitanio, J.-P. Roques, F. Frontera, **L. Amati**, N.J. Westergaard, 2004, "*High-energy observations of the state transition of the X-ray nova and black hole candidate XTE J1720-318*", **Astronomy & Astrophysics**, **426**, **659**
- 56) **L. Amati**, F. Frontera, J.J.M. in 't Zand, M. Capalbi, R. Landi, P. Soffitta, L. Vetere, L.A. Antonelli, E. Costa, S. Del Sordo, M. Feroci, C. Guidorzi, J. Heise, N. Masetti, E. Montanari, L. Nicastro, E. Palazzi, L. Piro, 2004, "*Prompt and afterglow X-ray emission from the X-Ray Flash of 2002 April 27*", **Astronomy & Astrophysics**, **426**, **415**
- 55) F. Frontera, **L. Amati**, D. Lazzati, E. Montanari, M. Orlandini, R. Perna, E. Costa, M. Feroci, C. Guidorzi, E. Kuulkers, N. Masetti, L. Nicastro, E. Palazzi, E. Pian, and L. Piro, 2004, "*A Decreasing Column Density during the Prompt Emission from GRB000528 Observed with BeppoSAX*", **The Astrophysical Journal**, **614**, **301**
- 54) N. Masetti, L. Foschini, E. Palazzi, V. Beckmann, N. Lundt, S. Brandt, N.J. Westergaard, **L. Amati**, E. Caroli, S. Del Sordo, G. Di Cocco, P. Durouchoux, R. Farinelli,

- F. Frontera, M. Orlandini, A. Zdziarski, **2004**, "*Serpens X-1 observed by INTEGRAL*", **Astronomy & Astrophysics**, **423**, **651**
- 53) N. Masetti, D. Dal Fiume, **L. Amati**, S. Del Sordo, F. Frontera, M. Orlandini, E. Palazzi, **2004**, "*A look with BeppoSAX at the low-luminosity galactic X-ray source 4U2206+54*", **Astronomy & Astrophysics**, **423**, **311**
  - 52) **L. Amati**, **2004**, "*The BeppoSAX revolution in Gamma-Ray Burst science*", **Baltic Astronomy**, **13**, **193**
  - 51) C. Guidorzi, F. Frontera, E. Montanari, M. Feroci, **L. Amati**, E. Costa, M. Orlandini, S. Del Sordo, **2004**, "*Comparative study of the two large flares from SGR1900+14 with the BeppoSAX Gamma-Ray Burst Monitor*", **Astronomy & Astrophysics**, **416**, **297**
  - 50) **L. Amati**, **2003**, "*Intrinsic spectra and energetics of cosmological Gamma-Ray Bursts*", **Chinese Journal of Astronomy & Astrophysics Suppl.**, **3**, **455**
  - 49) F. Frontera, **L. Amati**, A. A. Zdziarski, T. Belloni, S. Del Sordo, N. Masetti, M. Orlandini, E. Palazzi, **2003**, "*Spectral and Temporal Behavior of the Black Hole Candidate XTE J1118+480 as Observed with BeppoSAX*", **The Astrophysical Journal**, **592**, **1110**
  - 48) N. Masetti, E. Palazzi, E. Pian, A. Simoncelli, L.K. Hunt, E. Maiorano, A.J. Levan, L. Christensen, E. Rol, S. Savaglio, R. Falomo, A.J. Castro-Tirado, J. Hjorth, A. Delsanti, M. Pannella, V. Mohan, S.B. Pandey, R. Sagar, **L. Amati**, I. Burud, J.M. Castro Ceron, F. Frontera, A. Fruchter, J.P.U. Fynbo, J. Gorosabel, L. Kaper, S. Klose, C. Kouveliotou, L. Nicastro, H. Pedersen, J.E. Rhoads, I. Salamanca, N.R. Tanvir, P.M. Vreeswijk, R.A.M.J. Wijers, E.P.J. van den Heuvel, **2003**, "*Optical and near-infrared observations of the GRB020405 afterglow*", **Astronomy & Astrophysics**, **404**, **465**
  - 47) R. Farinelli, F. Frontera, N. Masetti, **L. Amati**, C. Guidorzi, M. Orlandini, E. Palazzi, A.N. Parmar, L. Stella, M. Van der Klis and S.N. Zhang, **2003**, "*BeppoSAX observations of two unclassified LMXBs: X1543-624 and X1556-605*", **Astronomy & Astrophysics**, **402**, **1021**
  - 46) C. Guidorzi, F. Frontera, E. Montanari, **L. Amati**, L.A. Antonelli, J.J.M. in 't Zand, E. Costa, R. Farinelli, M. Feroci, J. Heise, N. Masetti, L. Nicastro, M. Orlandini, E. Palazzi, L. Piro, **2003**, "*The dark burst 010214 with BeppoSAX: possible variable absorption and jet X-ray emission*", **Astronomy & Astrophysics**, **401**, **491**
  - 45) L. Piro, D. A. Frail, J. Gorosabel, G. Garmire, P. Soffitta, **L. Amati**, M. I. Andersen, L. A. Antonelli, E. Berger, F. Frontera, J. Fynbo, G. Gandolfi, M. R. Garcia, J. Hjorth, J. in 't Zand B. L. Jensen, N. Masetti, P. Moller, H. Pedersen, E. Pian, M. H. Wieringa, **2002**, "*The Bright Gamma-Ray Burst of February 10, 2000: A Case Study of an Optically Dark GRB*", **The Astrophysical Journal**, **577**, **680**
  - 44) J. Hjorth, B. Thomsen, S.R. Nielsen, M.I. Andersen, S.T. Holland, J.U. Fynbo, H. Pedersen, A.O. Jaunsen, J.P. Halpern, R. Fesen, J. Gorosabel, A. Castro-Tirado, R.G. McMahon, M.D. Hoenig, G. Bjornsson, **L. Amati**, N.R. Tanvir, P. Natarajan, **2002**, "*The afterglow and complex environment of the optically dim burst GRB 980613*", **The Astrophysical Journal**, **576**, **113**
  - 43) **L. Amati**, F. Frontera, M. Tavani, J.J.M. in 't Zand, A. Antonelli, E. Costa, M. Feroci, C. Guidorzi, J. Heise, N. Masetti, E. Montanari, L. Nicastro, E. Palazzi, E. Pian, L. Piro, P.

- Soffitta, 2002, "Intrinsic spectra and energetics of BeppoSAX Gamma-Ray Bursts with known redshifts " , **Astronomy & Astrophysics**, **390**, **81**
- 42) N. Masetti, D. Dal Fiume, G. Cusumano, **L. Amati**, C. Bartolini, S. Del Sordo, F. Frontera, A. Guarnieri, M. Orlandini, E. Palazzi, A.N. Parmar, A. Piccioni, A. Santangelo, 2002, "X-ray and optical monitoring of the peculiar source 4U 1700+24/V934 Her " , **Astronomy & Astrophysics**, **382**, **104**
  - 41) F. Frontera, A.A. Zdziarski, **L. Amati**, J. Mikolajewska, T. Belloni, S. Del Sordo, F. Haardt, E. Kuulkers, N. Masetti, M. Orlandini, E. Palazzi, A.N. Parmar, R.A. Remillard, A. Santangelo, L. Stella, 2001, "A measurement of the broad-band spectrum of XTE J1118+480 with BeppoSAX and its astrophysical implications " , **The Astrophysical Journal**, **561**, **1006**
  - 40) M. Feroci, L.A. Antonelli, P. Soffitta, J.J.M. in 't Zand, **L. Amati**, E. Costa, L. Piro, F. Frontera, E. Pian, J. Heise and L. Nicastro, 2001, "GRB 990704: the most X-ray rich BeppoSAX gamma-ray burst " , **Astronomy & Astrophysics**, **378**, **441**
  - 39) J.J.M. in 't Zand, L. Kuiper, **L. Amati**, L.A. Antonelli, R.C. Butler, E. Costa, M. Feroci, F. Frontera, G. Gandolfi, C. Guidorzi, J. Heise, R.G. Kaptein, E. Kuulkers, L. Nicastro, L. Piro, P. Soffitta, M. Tavani . 2001, "BeppoSAX measurements of the bright gamma-ray burst 010222 " , **The Astrophysical Journal**, **559**, **710**
  - 38) N. Masetti, E. Palazzi, E. Pian, F. Mannucci, L.A. Antonelli, A. Di Paola, P. Saracco, S. Savaglio, **L. Amati**, C. Bartolini, S. Bernabei, D. Bettoni, S. Covino, S. Desidera, S. Di Serego Alighieri, Renato Falomo, F. Frontera, F. Ghinassi, A. Guarnieri, A. Magazzu, R. Maiolino, M. Mignoli, L. Nicastro, M. Pedani, A. Piccioni, B.M. Poggianti, V. Testa, G. Valentini, A. Zacchei. 2001, "GRB010222:afterglow emission in a rapidly decelerating shock " , **Astronomy & Astrophysics**, **374**, **382**
  - 37) E. Pian, P. Soffitta, A. Alessi, **L. Amati**, E. Costa, F. Frontera, A. Fruchter, N. Masetti, E. Palazzi, A. Panaitescu and P. Kumar, 2001, "BeppoSAX confirmation of beamed afterglow emission from GRB990510 " , **Astronomy & Astrophysics**, **372**, **Pag. 456**
  - 36) D. Lazzati, G. Ghisellini, **L. Amati**, F. Frontera, M. Vietri, L. Stella, 2001, "On the Absorption Feature in the Prompt X-Ray Spectrum of GRB 990705 " , **The Astrophysical Journal**, **556**, **471**
  - 35) M. Orio, A. Parmar, R. Benjamin, **L. Amati**, F. Frontera, J. Greiner, H. Ogelman, T. Mineo, S. Starrfield, E. Trussoni, 2001, "The X-ray emission from Nova V382 Velorum: I. The hard component observed with BeppoSAX " , **Monthly Notices of the Royal Astronomical Society**, **326**, **Pag. L13**
  - 34) F. Frontera, **L. Amati**, M. Vietri, J.J.M. in 't Zand, E. Costa, M. Feroci, J. Heise, N. Masetti, L. Nicastro, M. Orlandini, E. Palazzi, E. Pian, L. Piro, P. Soffitta, 2001, " The prompt emission of GRB990712 with BeppoSAX: evidence of a transient X-ray emission feature " , **The Astrophysical Journal**, **550**, **Pag. L47**
  - 33) J. J. M. in 't Zand, L. Kuiper, **L. Amati**, L. A. Antonelli, K. Hurley, A. Coletta, E. Costa, M. Feroci, F. Frontera, G. Gandolfi, J. Heise, E. Kuulkers, J. M. Muller, L. Nicastro, L. Piro, M. J. S. Smith, M. Tavani, 2000, " X-ray afterglow detection of the short gamma-ray burst 991014 " , **The Astrophysical Journal**, **545**, **Pag. 266**

- 32) L.A. Antonelli, L. Piro, M. Vietri, E. Costa, P. Soffitta, M. Feroci, **L. Amati**, F. Frontera, E. Pian, J.J.M. in 't Zand, J. Heise, E. Kuulkers, L. Nicastro, R.C. Butler, L. Stella, and G.C. Perola, **2000**, "*Discovery of a redshifted iron K line in the X-ray afterglow of GRB 000214*", **The Astrophysical Journal**, **545**, **Pag. L39**
- 31) N. Masetti, F. Frontera, L. Stella, M. Orlandini, A.N. Parmar, S. Del Sordo, **L. Amati**, E. Palazzi, D. Dal Fiume, G. Cusumano, G. Pareschi, I. Lapidus, R.A. Remillard, **2000**, "*Hard X-rays from Type II bursts of the Rapid Burster and its transition toward quiescence*", **Astronomy & Astrophysics**, **363**, **Pag. 188**
- 30) **L. Amati**, F. Frontera, M. Vietri, J.J.M. in't Zand, P. Soffitta, E. Costa, S. Del Sordo, E. Pian, L. Piro, L.A. Antonelli, D. Dal Fiume, M. Feroci, G. Gandolfi, C. Guidorzi, J. Heise, E. Kuulkers, N. Masetti, E. Montanari, L. Nicastro, M. Orlandini, and E. Palazzi, **2000**, "*Discovery of a Transient Absorption Edge in the X-ray Spectrum of GRB 990705*", **Science**, **290**, **Pag. 955**
- 29) F. Frontera, L. A. Antonelli, **L. Amati**, E. Montanari, E. Costa, D. Dal Fiume, P. Giommi, M. Feroci, G. Gennaro, J. Heise, N. Masetti, J. M. Muller, L. Nicastro, M. Orlandini, E. Palazzi, E. Pian, L. Piro, P. Soffitta, M. Stornelli, J. J. M. in 't Zand, D. A. Frail, S. R. Kulkarni, M. Vietri, **2000**, "*Prompt and afterglow emission from the X-ray rich GRB981226 observed with BeppoSAX*", **The Astrophysical Journal**, **540**, **Pag. 697**
- 28) E. Kuulkers, L. A. Antonelli, L. Kuiper, J. S. Kaastra, **L. Amati**, E. Costa, F. Frontera, J. Heise, J. J. M. in 't Zand, N. Masetti, L. Nicastro, E. Pian, L. Piro, P. Soffitta, **2000**, "*GRB990510: on the possibility of a beamed X-ray afterglow*" **The Astrophysical Journal**, **538**, **Pag. 638**
- 27) E. Pian, **L. Amati**, L. A. Antonelli, R. C. Butler, E. Costa, G. Cusumano, J. Danziger, M. Feroci, F. Fiore, F. Frontera, P. Giommi, N. Masetti, J. M. Muller, L. Nicastro, T. Oosterbroek, M. Orlandini, A. Owens, E. Palazzi, A. Parmar, L. Piro, J. J. M. in 't Zand, A. Castro-Tirado, A. Coletta, D. Dal Fiume, S. Del Sordo, J. Heise, P. Soffitta, and V. Torroni, **2000**, "*BeppoSAX Observations of GRB 980425: Detection of the Prompt Event and Monitoring of the Error Box*", **The Astrophysical Journal** , **536**, **778**
- 26) F. Frontera, **L. Amati**, E. Costa, J.M. Muller, E. Pian, L. Piro, P. Soffitta, M. Tavani, A. Castro-Tirado, D. Dal Fiume, M. Feroci, J. Heise, N. Masetti, L. Nicastro, M. Orlandini, E. Palazzi, R. Sari , **2000**, "*Prompt and delayed emission properties of Gamma-Ray Bursts observed with BeppoSAX* ", **The Astrophysical Journal Supplement Series** , **127**, **59**
- 25) K. Hurley, M. Feroci, M.-N. Cinti, E. Costa, B. Preger, F. Frontera, D. Dal Fiume, M. Orlandini, **L. Amati**, L. Nicastro, J. Heise, J. J. M. in 't Zand, and T. Cline , **2000**, "*Integrating the BeppoSAX Gamma-Ray Burst Monitor into the Third Interplanetary Network* ", **The Astrophysical Journal** , **534**, **258**
- 24) D. Dal Fiume, **L. Amati**, L.A. Antonelli, F. Fiore, J. M. Muller, A. Parmar, N. Masetti, E. Pian, E. Costa, F. Frontera, L. Piro, J. Heise, R.C. Butler, A. Coletta, M. Feroci, P. Giommi, L. Nicastro, M. Orlandini, E. Palazzi, G. Pizzichini, and M. Tavani, **2000**, "*BeppoSAX spectrum of GRB971214: evidence of a substantial energy output during afterglow*", **Astronomy & Astrophysics**, **454**
- 23) N. Masetti, E. Palazzi, E. Pian, L.K. Hunt, M. Méndez, F. Frontera, **L. Amati**, P.M. Vreeswijk, E. Rol, T.J. Galama, J. van Paradijs, L.A. Antonelli, L. Nicastro, M. Feroci, G.



- Marconi, L. Piro, E. Costa, C. Kouveliotou, A.J. Castro-Tirado, R. Falomo, T. Augusteijn, H. Bönhardt, C. Lidman, L. Vanzi, K.M. Merrill, C.D. Kaminsky, M. van der Klis, M.H.M. Heemskerk, F. van der Hooft, E. Kuulkers, H. Pedersen, and S. Benetti, **2000**, "Near-infrared detection and optical follow-up of the GRB990705 afterglow", **Astronomy & Astrophysics**, **473**
- 22) L. Nicastro, G. Cusumano, **L. Amati**, F. Frontera, E. Palazzi, E. Pian, E. Costa, M. Feroci, L. Piro, A. Antonelli, **1999**, "Multi-band evolution of GRB980519 detected by BeppoSAX", **Astrophysical Letters and Communications**, **39/2**, **257**
  - 21) F. Frontera, **L. Amati**, A. Castro-Tirado, E. Costa, D. Dal Fiume, M. Feroci, J. Heise, N. Masetti, J.M. Muller, L. Nicastro, M. Orlandini, E. Palazzi, E. Pian, L. Piro, M. Tavani, J. in 't Zand, **1999**, "Spectral evolution of gamma-ray bursts with BeppoSAX and correlation with X-ray afterglow properties", **Astronomy & Astrophysics Supplement Series**, **403**
  - 20) M. Feroci, B. Preger, E. Costa, L. Piro, P. Soffitta, **L. Amati**, F. Frontera, E. Costa, G. Gandolfi, M.J.S. Smith, A. Coletta, J. Heise, J.J.M. in't Zand, **1999**, "Selection effects in the BeppoSAX gamma-ray bursts sample", **Astronomy & Astrophysics Supplement Series**, **407**
  - 19) L.A. Antonelli, F. Fiore, **L. Amati**, M. Feroci, E. Costa, F. Frontera, G. Gandolfi, P. Giommi, L. Piro, **1999**, "BeppoSAX discovery of the X-ray afterglow of GRB 971227", **Astronomy & Astrophysics Supplement Series**, **435**
  - 18) L. Piro, E. Costa, M. Feroci, G. Stratta, F. Frontera, **L. Amati**, D. Dal Fiume, A.L. Antonelli, J. Heise, J. in 't Zand, A. Owens, A.N. Parmar, G. Cusumano, M. Vietri, G.C. Perola, **1999**, "Iron line signatures in X-ray afterglows of GRB by BeppoSAX", **Astronomy & Astrophysics Supplement Series**, **431**
  - 17) L. Nicastro, **L. Amati**, A. Antonelli, E. Costa, G. Cusumano, M. Feroci, F. Frontera, E. Palazzi, E. Pian, L. Piro, **1999**, "The X-ray afterglow of GRB980519", **Astronomy & Astrophysics Supplement Series**, **437**
  - 16) N. Masetti, E. Pian, E. Palazzi, **L. Amati**, T.J. Galama, L. Nicastro, P.M. Vreeswijk, F. Frontera, J. Van Paradijs, **1999**, "Broad band spectral evolution of GRB afterglows", **Astronomy & Astrophysics Supplement Series**, **453**
  - 15) E. Pian, **L. Amati**, L.A. Antonelli, R.C. Butler, E. Costa, G. Cusumano, J. Danziger, M. Feroci, F. Fiore, F. Frontera, P. Giommi, N. Masetti, J.M. Muller, T. Oosterbroek, A. Owens, E. Palazzi, L. Piro, A. Castro-Tirado, A. Coletta, D. Dal Fiume, S. Del Sordo, J. Heise, L. Nicastro, M. Orlandini, A. Parmar, P. Soffitta, V. Torrioni, J.J.M. in't Zand, **1999**, "BeppoSAX detection and follow-up of GRB 980425", **Astronomy & Astrophysics Supplement Series**, **463**
  - 14) B. Preger, E. Costa, M. Feroci, **L. Amati**, F. Frontera, G. Gandolfi, M.J.S. Smith, A. Coletta, J. Heise, J.J.M. in't Zand, **1999**, "Towards gamma ray bursts localization with the BeppoSAX/GRBM", **Astronomy & Astrophysics Supplement Series**, **559**
  - 13) **L. Amati**, P. Astone, M. Bassan, P. Bonifazi, P. Carelli, E. Coccia, C. Cosmelli, E. Costa, V. Fafone, M. Feroci, S. Frasca, F. Frontera, F. Longo, E. Maucelli, Y. Minenkov, I. Modena, G. Modestino, A. Moleti, M. Orlandini, G.V. Pallottino, L. Piro, G. Pizzella, B. Preger, F. Salemi, R. Terenzi, M. Visco, **1999**, "Measurements with the resonanti"

*gravitational wave detector EXPLORER during the gamma-ray burst 980425*, **Astronomy & Astrophysics Supplement Series, 605**

- 12) L. Amati, F. Frontera, E. Costa, M. Feroci, M.N. Cinti, P. Collina, D. Dal Fiume, C. Guidorzi, L. Nicastro, M. Orlandini, E. Palazzi, B. Preger, M. Rapisarda, G. Zavattini, **1999**, *"Spectral analysis of GRB with the gamma-ray burst monitor on-board BeppoSAX"*, **Astronomy & Astrophysics Supplement Series, 403**
- 11) F.A. Harrison, J.S. Bloom, D.A. Frail, R. Sari, S.R. Kulkarni, S.G. Djorgowski, T. Axelrod, J. Mould, B.P. Schmidt, M.H. Wieringga, R.M. WarkR. , Subrahmanyam, D. McConnel, P.J. McCarthy, B.E. Schaefer, R.G. McMahon, R.O. Markze, E. Firth, P. Soffitta, L. Amati, **1999**, *"Optical and Radio Observations of the Afterglow from GRB 990123: Evidence for a Jet"*, **The Astrophysical Journal , 523, L12**
- 10) M. Feroci, F. Frontera, E. Costa, L. Amati, M. Tavani, M. Rapisarda, M. Orlandini, **1999**, *"A Giant Outburst from SGR1900+14 observed with the BeppoSAX Gamma Ray Burst Monitor"*, **The Astrophysical Journal , 515, L9**
- 9) L. Piro, E. Costa, M. Feroci, F. Frontera, L. Amati, D. Dal Fiume, L.A. Antonelli, J. Heise, J. in 't Zand, A. Owens, A.N. Parmar, G. Cusumano, M. Vietri, G.C. Perola, **1999**, *"The X-ray afterglow of the Gamma-ray burst of May 8, 1997: spectral variability and possible evidence of an iron line"* **The Astrophysical Journal, 514, L73**
- 8) E. Costa, F. Frontera, D. Dal Fiume, L. Amati, M.N. Cinti, P. Collina, M. Feroci, L. Nicastro, M. Orlandini, E. Palazzi, M. Rapisarda & G. Zavattini, **1998**, *"The Gamma-Ray Burst Monitor onboard SAX"*, **Advances in Space Research, Vol. 22, 7, 1129-1132**
- 7) F. Frontera, M. Orlandini, L. Amati, D. Dal Fiume, N. Masetti, A. Orr, A.N. Parmar, E. Brocato, G. Raimondo, A. Piersimoni, M. Tavani & R.A. Remillard, **1998**, *"Multifrequency observations of XTE J0421+560/CI Cam in outburst"* **Astronomy & Astrophysics, 339, L69**
- 6) J.J.M. in 't Zand, L. Amati, L.A. Antonelli, E. Costa, M. Feroci, F. Frontera, J. Heise, L. Nicastro, E. Pian, L. Piro & M. Smith , **1998**, *"GRB 980329 and its X-ray afterglow"*, **The Astrophysical Journal, 505, L119**
- 5) L. Nicastro, L. Amati, L.A. Antonelli, J.M. Muller, G. Cusumano, L. Piro, E. Costa, M. Feroci, F. Frontera, J. Heise, J.J.M. in 't Zand, A.N. Parmar & R.C. Butler, **1998**, *"BeppoSAX observations of GRB970402"* **Astronomy & Astrophysics, 338, L17**
- 4) E. Palazzi, E. Pian, N. Masetti, L. Nicastro, P. Vreeswijk, T.J. Galama, P. Groot, F. Frontera, M. Della Valle, C. Lindman, C. Kouveliotu, G. Pizzichini, J. van Paradijs, H. Pedersen, F. Mannucci, M. Di Martino, L. Amati, S. Benetti, A.J. Castro-Tirado, J. Clasen, E. Costa, D. Dal Fiume, R. Falomo, M. Feroci, J. Fynbo, J. Heise, J. in't Zand, F. Patat, L. Piro, C. Robinson, M. Tornikoski & E. Valtaoja, **1998**, *"Optical and Near-Infrared Followup Observations of GRB980329"*, **Astronomy & Astrophysics, 336, L95**
- 3) L. Piro, L. Amati, L.A. Antonelli, R.C. Butler, E. Costa, G. Cusumano, M. Feroci, F. Frontera, J. Heise, J.J.M. in't Zand, S. Molendi, J. Muller, L. Nicastro, M. Orlandini, A. Owens, A.N. Parmar, P. Soffitta & M. Tavani, **1998**, *"Evidence for a late-time outburst of the X-ray afterglow of GB970508 from BeppoSAX"*, **Astronomy & Astrophysics, 331, L41**

- 2) F. Frontera, E. Costa, L. Piro, J.M. Muller, **L. Amati**, M. Feroci, F. Fiore, G. Pizzichini, M. Tavani, A. Castro-Tirado, G. Cusumano, D. Dal Fiume, J. Heise, K. Hurley, L. Nicastro, M. Orlandini, A. Owens, E. Palazzi, A.N. Parmar, J. in't Zand & G. Zavattini, **1998**, "Spectral Properties of the Prompt X-ray emission and Afterglow from the Gamma-Ray Burst of 28 February 1997", **The Astrophysical Journal**, **493**, L97
- 1) L. Piro, J. Heise, R. Jager, E. Costa, F. Frontera, M. Feroci, J.M. Muller, **L. Amati**, M.N. Cinti, D. Dal Fiume, L. Nicastro, M. Orlandini & G. Pizzichini, **1998**, "The first X-ray localization of a gamma-ray burst by BeppoSAX and its fast spectral evolution", **Astronomy & Astrophysics**, **329**, 906

### **Publications on Conference Proceedings (83)**

- 83) **L. Amati**, S. Capozziello, A.C. Ruggeri, M. De Laurentis, M. Della Valle, O. Luongo, G. Stratta, **2015**, "The SKA contribution to GRB cosmology", **Proceedings of Advancing Astrophysics with the Square Kilometre Array (AASKA14), Proceedings Of Science, conf.215, id.56**
- 82) M. Feroci, J.W. den Herder, E. Bozzo, D. Barret, S. Brandt, M. Hernanz, M. van der Klis, M. Pohl, A. Santangelo, L. Stella, A. Watts, J. Wilms, S. Zane, M. Ahangarianabhari, C. Albertus, M. Alford, A. Alpar, D. Altamirano, L. Alvarez, **L. Amati**, et al., **2014**, "The Large Observatory for x-ray timing", **Proceedings of the SPIE, Volume 9144, id. 91442T**
- 81) F. Frontera, E. Virgili, V. Valsan, V. Liccardo, V. Carassiti, E. Caroli, F. Cassese, C. Ferrari, V. Guidi, S. Mottini, M. Pecora, B. Negri, L. Recanatesi, **L. Amati**, et al., **2013**, "Scientific prospects in soft gamma-ray astronomy enabled by the LAUE project", **Proceedings of the SPIE, Volume 8861, id. 886106**
- 80) **L. Amati**, S. Dichiara, **2013**, "Investigating the Ep, i -Eiso Correlation", **Acta Polytechnica, Vol 53, Supplement, p.686**
- 79) M. Feroci, J.W. den Herder, E. Bozzo, D. Barret, S. Brandt, M. Hernanz, M. van der Klis, M. Pohl, A. Santangelo, L. Stella, A. Watts, J. Wilms, S. Zane, M. Ahangarianabhari, A. Alpar, D. Altamirano, L. Alvarez, **L. Amati**, et al., **2012**, "LOFT: the Large Observatory For X-ray Timing", **Proceedings of the SPIE, Volume 8443, article id. 84432D**
- 78) F. Frontera, **L. Amati**, F. Farinelli, C. Guidorzi, R. Landi, L. Titarcuk, J.J.M. in't Zand, **2012**, "Time Resolved Spectra of GRBs Simultaneously Detected with BATSE and BeppoSAXWFCs", **International Journal of Modern Physics: Conference Series, Vol. 12, issue 01, p. 136**
- 77) C.L. Bianco, **L. Amati**, M.G. Bernardini, L. Caito, G. De Barros, L. Izzo, B. Patricelli, R. Ruffini, **2012**, "The class of 'disguised' short GRBs and its implications for the Amati relation", **Memorie della Societa Astronomica Italiana Supplement, v.21, p.139**
- 76) Y. Evangelista, M. Feroci, A. Argan, R. Campana, E. Costa, E. Del Monte, I. Donnarumma, F. Lazzarotto, F. Muleri, L. Pacciani, M. Rapisarda, A. Rubini, P. Soffitta, **L. Amati**, et al. **2012**, "A Proposed Italian Contribution for the Mirax Scientific Payload", **International Journal of Modern Physics: Conference Series, Vol. 12, issue 01, p. 110**

- 75) **L. Amati, 2012, "Cosmology with the  $Ep,i$ -Eiso Correlation of Gamma-Ray Bursts"**, **International Journal of Modern Physics: Conference Series, Vol. 12, issue 01, p. 19**
- 74) P. Veres, A. de Ugarte Postigo, I. Horvath, Z. Bagoly, D.A. Kann, C.C. Thoene, L.G. Balazs, P. D'Avanzo, M.A. Aloy, S. Foley, S. Campana, J. Mao, P. Jakobsson, S. Covino, J.P.U. Fynbo, J. Gorosabel, A.J. Castro-Tirado, M. Nardini, **L. Amati, 2011, "Properties of Swift's intermediate bursts"**, **AIP Conference Proceedings, Volume 1358, p. 251**
- 73) A. de Ugarte Postigo, I. Horvath, P. Veres, A. Bagoly, D.A. Kann, C.C. Thoene, L.G. Balazs, P. D'Avanzo, M.A. Aloy, S. Foley, S. Campana, J. Mao, P. Jakobsson, S. Covino, J.P.U. Fynbo, J. Gorosabel, A.J. Castro-Tirado, **L. Amati, M. Nardini, 2010, "Properties of Swift's intermediate bursts"**, **AIP Conference Proceedings, Volume 1279, p. 283**
- 72) R. Campana, M. Feroci, A. Vacchi, C. Labanti, G. Zampa, E. Del Monte, Y. Evangelista, F. Muleri, L. Pacciani, A. Rubini, P. Soffitta, E. Costa, I. Donnarumma, F. Lazzarotto, M. Mastropietro, E. Morelli, M. Rapisarda, F. Fuschino, M. Marisaldi, V. Bonvicini, A. Rashevsky, N. Zampa, F. Perotti, L. Amati, et al. **2010, "Concept for an innovative wide-field camera for x-ray astronomy"**, **SPIE Conference Proceedings, Volume 7732, p. 77324**
- 71) R. Campana, L. Pacciani, M. Feroci, E. Costa, E. Del Monte, I. Donnarumma, Y. Evangelista, F. Lazzarotto, M. Mastropietro, F. Muleri, A. Rubini, M. Rapisarda, **L. Amati, et al. 2010, "A concept for a lightweight, low-power and sensitive Silicon-based All Sky Monitor for transient sources and Gamma Ray Bursts"**, **AIP Conference Proceedings, Volume 1248, p. 577**
- 70) **L. Amati, 2010, "The  $Ep,i$  - Eiso correlation and Fermi Gamma-Ray Bursts"**, **Conference Proceedings of the Italian Physical Society, vol. 102, p. 71**
- 69) F. Frontera, **L. Amati, C. Guidorzi, R. Landi, V. La Parola, 2010, "The spectral evolution in the 2-700 keV energy band of the entire sample of GRBs observed with WFC and GRBM aboard BeppoSAX"**, **Memorie della Societa Astronomica Italiana, v.81, p.426**
- 68) M. Feroci, **L. Amati, Antonelli, L. A.; Bonvicini, V.; Campana, R.; Costa, E.; Del Monte, E.; Donnarumma, I.; Evangelista, Y.; Fiore, F., et al., 2009, "A Light and Effective Wide Field Monitor for Gamma Ray Bursts and Transient Sources"**, **AIP Conference Proceedings, Volume 1133, pp. 49-51**
- 67) **L. Amati, 2009, "Gamma-ray bursts as cosmological probes"**, **Memorie della Societa Astronomica Italiana, v.80, p.207**
- 66) **L. Amati, 2009, "Open issues on Gamma-Ray Bursts: Shading light with the  $Ep,i$  - Eiso correlation"**, **Frontier Objects in Astrophysics and Particle Physics, Vulcano Workshop 2008, held 26-31 May, 2008 in Vulcano, Italy. Edited by F. Giovannelli and G. Mannocchi, 2009, p.339**
- 65) **L. Amati, 2009, "Measuring cosmological parameters with Gamma-Ray Bursts"**, **EAS Publications Series, Volume 36, 2009, pp.25-29**
- 64) M. della Valle, **L. Amati, 2008, "Measuring Omega M with the  $Ep,i$ -Eiso correlation of GRBs"**, **AIP Conference Proceedings, Volume 1059, pp. 63-67**

- 63) Perotti, F.; Labanti, C.; Marisaldi, M.; Fuschino, F.; **L. Amati**, Negri, B.; Soltau, H., **2008**, "*Silicon drift detectors array coupled to scintillators operated with pulse shape discrimination technique: a 1 keV - 1 MeV position sensitive gamma-ray detector*", **SPIE Conference Proceedings**, vol. **7021**, pag. **41**
- 62) Mereghetti, S.; De Luca, A.; Fiorini, M.; La Palombara, N.; Tiengo, A.; Uslenghi, M.; Vianello, G.; Villa, G.; Zambra, A.; Moretti, A.; Basso, S.; Campana, S.; Conconi, P.; Cotroneo, V.; Covino, S.; Ghirlanda, G.; Ghisellini, G.; Pareschi, G.; Tagliaferri, G.; Trifoglio, M.; **L. Amati**, et al., **2008**, "*XIAO: a soft x-ray telescope for the SVOM mission*" , **SPIE Conference Proceedings**, vol. **7011**, pag. **54**
- 61) Romano, P.; Guidorzi, C.; Sidoli, L.; Montanari, E.; Capitanio, F.; **L. Amati**, Cucchiara, A.; Frontera, F.; Masetti, N.; Mereghetti, S.; Rossi, F., **2008**, "*Swift uncovers that SAX J0840.7+2248 is not an X-ray Binary, but BeppoSAX X-ray Rich GRB 980429*" , **AIP Conference Proceedings**, Volume **1000**, pag. **146**
- 60) **L. Amati**, **2008**, "*Spectrum-Energy Correlations and Swift GRBs*" , **AIP Conference Proceedings**, Volume **966**, pp. **3-6**
- 59) **L. Amati**, **2008**, "*The Correlation between nFn Peak Energy and radiated Energy in Gamma Ray Bursts*" , **Relativistic Astrophysics Legacy and Cosmology - Einstein's, ESO Astrophysics Symposia**, Volume . ISBN **978-3-540-74712-3**. Springer-Verlag Berlin Heidelberg, p. **365**
- 58) **L. Amati**, Maiorano, E.; Palazzi, E.; Landi, R.; Frontera, F.; Masetti, N.; Nicastro, L., **2008**, "*Unveiling GRB hard X-ray afterglow emission with Simbol-X*" , **Memorie della Societa Astronomica Italiana**, v.**79**, p.**144**
- 57) Frontera, F.; Loffredo, G.; Pisa, A.; Milani, L.; Nobili, F.; Auricchio, N.; Carassiti, V.; Evangelisti, F.; Landi, L.; Squerzanti, S.; Andersen, K. H.; Courtois, P.; **L. Amati**, et al., **2007**, "*Development status of a Laue lens project for gamma-ray astronomy*" , **SPIE Conference Proceedings**, vol. **6688**, pag. **20**
- 56) den Herder, J. W.; Piro, L.; Ohashi, T.; **L. Amati**, et al., **2007**, "*EDGE: explorer of diffuse emission and gamma-ray burst explosions*" , **SPIE Conference Proceedings**, vol. **6688**, pag. **4**
- 55) Natalucci, L.; Feroci, M.; Quadrini, E.; Ubertini, P.; Piro, L.; den Herder, J. W.; Barret, D., **L. Amati**, et al., **2007**, "*Design of a CZT gamma-camera for GRB and fast transient follow-up: a wide-field-monitor for the EDGE mission*" , **SPIE Conference Proceedings**, vol. **6686**, pag. **25**
- 54) Barbiellini, G.; Galli, A., **L. Amati**, Celotti, A.; Landi, R.; Longo, F.; Omodei, N.; Tavani, M., **2007**, "*Relativistic interaction of a high intensity photon beam with a plasma: a possible GRB emission mechanism*" , **AIP Conference Proceedings**, Volume **921**, pp. **265-267**
- 53) **L. Amati**, **2007**, "*Gamma-Ray Bursts*" , **Science with the New Generation of High Energy Gamma-Ray Experiments. The Variable Gamma-Ray Sources: Their Identifications and Counterparts. Proceedings of the Fourth Workshop**. World Scientific Publishing Co., Pte. Ltd., Singapore, p.**161**

- 52) Frontera, F.; Pisa, A.; Carassiti, V.; Evangelisti, F.; Loffredo, G.; Pellicciotta, D.; Andersen, K. H.; Courtois, P., **L. Amati**, et al., **2006**, "*Gamma-ray lens development status for a European gamma-ray imager*", **SPIE Conference Proceedings**, vol. **6266**, pag. **64**
- 51) L. Piro, **L. Amati**, M. Barbera, S. Borgani, A. Bazzano, et al., **2006**, "*ESTREMO/WFXRT: extreme physics in the transient and evolving cosmos*", **SPIE Conference Proceedings**, vol. **6266**, pag. **16**
- 50) Dasilva, R. M. C.; Caroli, E.; Stephen, J. B.; Mendes, N. F. C.; Frontera, F.; Auricchio, N.; **L. Amati**, **2006**, "*Polarimetric Performance Study of a CZT Gamma-Ray Burst Monitor Concept*", **IEEE Transactions on Nuclear Science**, vol. **53**, issue **1**, pp. **383-388**
- 49) F. Frontera, A. Pisa, P. De Chiara, G. Loffredo, D. Pellicciotta, V. Carassiti, F. Evangelisti, K. Andersen, P. Courtois, B. Hamelin, **L. Amati**, N. Auricchio, L. Bassani, E. Caroli, G. Landini, M. Orlandini, J.B. Stephen, A. Comastri, J. Knodlseder, P. von Ballmoos **2005**, "*Exploring the Hard X-/soft gamma-ray Continuum Spectra with Laue Lenses*", **39TH ESLAB Symposium on Trends in Space Science and Cosmic Vision 2020**, held **19-21 April 2005**, Noordwijk, The Netherlands. Edited by **F. Favata, J. Sanz-Forcada, A. Giménez, and B. Battrick**. ESA SP-588. European Space Agency, **2005**, p.323
- 48) N. Auricchio, **L. Amati**, Basili, A.; Caroli, E.; Donati, A.; Franceschini, T.; Frontera, F.; Landini, G.; Roggio, A.; Schiavone, F.; Stephen, J. B.; Ventura, G., **2005**, "*Twin Shaping Filter Techniques to Compensate the Signals From CZT/CdTe Detectors*", **IEEE Transactions on Nuclear Science**, vol. **52**, issue **5**, pp. **1982-1988**
- 47) Pisa, Alessandro; Frontera, Filippo; De Chiara, Paola; Loffredo, Gianluca; Pellicciotta, Damiano; Carassiti, Vito; Evangelisti, Federico; Andersen, Ken; Courtois, Pierre; Hamelin, Bernard; **L. Amati**, Landini, Gianni; Franceschini, Turi; Silvestri, Stefano, **2005**, "*Development status of a Laue lens for high energy x-rays (>60 keV)*", **SPIE Conference Proceedings**, Volume **5900**, p. **350**
- 46) N. Masetti, L. Foschini, E. Palazzi, **L. Amati**, E. Caroli, G. di Cocco, F. Frontera, M. Orlandini, **2004**, "*Hard X-Ray Emission from Serpens X-1 as Observed by INTEGRAL*", **The INTEGRAL Universe. Proceedings of the Fifth INTEGRAL Workshop. 16-20 February 2004, Munich, Germany**. Editor: **B. Battrick**, Scientific Editors: **V. Schoenfelder, G. Lichti, & C. Winkler**. ESA SP-552, Noordwijk: ESA Publication Division, ISBN 92-9092-863-8, **2004**, p. **349-352**
- 45) E. Maiorano, N. Masetti, E. Palazzi, L. Nicastro, E. Pian, **L. Amati**, F. Frontera, J.J.M. in't Zand, K.Z. Stanek, **2004**, "*Multiwavelength observations of the GRB000615 field*", **ASP Conference Series**, Volume **312**, **221**
- 44) J.J.M. in't Zand, L. Kuiper, J. Heise, **L. Amati**, E. Costa, F. Frontera, G. Gandolfi, L. Nicastro, L. Piro, P. Rodriguez-Pascual, M. Santos-Lleo, N. Schartel, **2004**, "*X/gamma-ray measurements of the faint GRB 020321*", **ASP Conference Series**, Volume **312**, **209**
- 43) E. Montanari, C. Guidorzi, F. Frontera, F. Calura, **L. Amati**, **2004**, "*On Afterglows of Short Gamma-Ray Bursts with BeppoSAX*", **ASP Conference Series**, Volume **312**, **193**
- 42) **L. Amati**, M. Cabalbi, F. Frontera, C. Guidorzi, R. Landi, E. Montanari, P. Soffitta, J.J.M. in't Zand, **2004**, "*BeppoSAX observations of XRF 020427 and its afterglow*", **ASP Conference Series**, Volume **312**, **189**

- 41) L. Nicastro, J.J.M. in 't Zand, J. Heise, E. Mazets, A. Castro-Tirado, J. Gorosabel, **L. Amati**, F. Frontera, E. Costa, M. Feroci, L. Piro, E. Pian, **2004**, "Multiwavelength study of GRB 020410", **ASP Conference Series, Volume 312, 185**
- 40) C. Guidorzi, F. Frontera, E. Montanari, F. Calura, **L. Amati**, E. Costa, M. Feroci, **2004**, "The BeppoSAX GRBM Catalog of GRBs", **ASP Conference Series, Volume 312, 39**
- 39) **L. Amati**, **2004**, "The BeppoSAX last score in Gamma-Ray Burst astrophysics: the  $E_p$ - $i$ -Eiso relationship", **Memorie della Societa Astronomica Italiana Supplement, v.5, p.154**
- 38) E. Montanari, F. Frontera, **L. Amati**, **2004**, "Broadband spectra of XTE J1650-500 with BeppoSAX", **Nucl. Phys. B Proc. Suppl., 132, 412**
- 37) **L. Amati**, F. Frontera, **2004**, "BeppoSAX study of the spectral and temporal behavior of the black hole candidate XTE J1118+480", **Nucl. Phys. B Proc. Suppl., 132, 392**
- 36) R. Farinelli, N. Masetti, F. Frontera, **L. Amati**, M. Orlandini, E. Palazzi, E. Pian, **2003**, "BeppoSAX Observations of Two LMXBs: X 1543-624 and X 1556-605", **ASP Conference Proceedings, Vol. 308. San Francisco: Astronomical Society of the Pacific, 2003., p.283**
- 35) **Amati, L.**, Frontera, F., Castro Cerón, J. M., Costa, E., Feroci, M., Gandolfi, G., Giommi, P., Guidorzi, C., Masetti, N., Montanari, E., Piro, L., Soffitta, P., in't Zand, J. J. M., **2003**, "The Prompt and Afterglow Emission of GRB 001109 Measured by BeppoSAX " **AIP Conference Proceedings, 662, 387**
- 34) **Amati, L.**, Frontera, F., Tavani, M., Costa, E., Guidorzi, C., Masetti, N., Montanari, E., Palazzi, E., Pian, E., Soffitta, P., in't Zand, J. J. M., **2002**, "X to gamma-rays average spectra and energetics of BeppoSAX gamma-ray bursts with known redshift. " **Memorie della Societa' Astronomica Italiana, vol. 73, 1178-1183**
- 33) Böttcher, M., Dermer, C. D., **Amati, L.**, Frontera, F., **2001**, "Modeling and Implications of the Transient Absorption Feature in GRB 990705 " **AIP Conference Proceedings, 587,190**
- 32) F. Frontera, **L. Amati**, D. Dal Fiume, N. Masetti, M. Orlandini, E. Palazzi, T. Belloni, S. Del Sordo, A.N. Parmar, **2001**, "Observations of new black hole candidates with BeppoSAX " **Exploring the gamma-ray universe. Proceedings of the Fourth INTEGRAL Workshop, 4-8 September 2000, Alicante, Spain. Editor: B. Battrick, Scientific editors: A. Gimenez, V. Reglero & C. Winkler. ESA SP-459, Noordwijk: ESA Publications Division, ISBN 92-9092-677-5, 2001, Pag. 187 - 190**
- 31) C. Guidorzi, F. Frontera, E. Montanari, F. Calura, **L. Amati**, E. Costa, M. Feroci, , **2001**, "Gamma-ray bursts and their direction detected with the Gamma-Ray Burst Monitor aboard BeppoSAX " **Exploring the gamma-ray universe. Proceedings of the Fourth INTEGRAL Workshop, 4-8 September 2000, Alicante, Spain. Editor: B. Battrick, Scientific editors: A. Gimenez, V. Reglero & C. Winkler. ESA SP-459, Noordwijk: ESA Publications Division, ISBN 92-9092-677-5, 2001, Pag. 449 - 452**
- 30) P. Soffitta, **L. Amati**, L.A. Antonelli, E. Costa, M. Feroci, F. Frontera, J. Heise, L. Piro, G. Stratta, J.J.M. in 't Zand, **2001**, "GRB980613 a very faint burst with a not so faint afterglow detected by BeppoSAX " **Proceedings of the Second Workshop "Gamma-Ray Bursts in the Afterglow Era" held in Rome on 17-20 October 2000, ESO Astrophysics**

**Symposia, E. Costa, F. Frontera & J. Hjorth (eds), Springer-Verlag (Berlin Heidelberg), Pag. 201**

- 29) L. Nicastro, G. Cusumano, A. Antonelli, **L. Amati**, F. Frontera, E. Palazzi, E. Pian, E. Costa, M. Feroci, L. Piro, J.J.M. in 't Zand, J. Heise, **2001**, "GRB000615 in X-rays " **Proceedings of the Second Workshop "Gamma-Ray Bursts in the Afterglow Era" held in Rome on 17-20 October 2000, ESO Astrophysics Symposia, E. Costa, F. Frontera & J. Hjorth (eds), Springer-Verlag (Berlin Heidelberg), Pag. 198**
- 28) E. Montanari, **L. Amati**, F. Frontera, C. Guidorzi, M. Capalbi, E. Costa, M. Feroci, L. Piro, J. Heise, J.J.M. in 't Zand, E. Pian, E. Palazzi, N. Masetti, L. Nicastro, **2001**, "BeppoSAX observations of GRB990806: from the prompt emission to the X-ray afterglow " **Proceedings of the Second Workshop "Gamma-Ray Bursts in the Afterglow Era" held in Rome on 17-20 October 2000, ESO Astrophysics Symposia, E. Costa, F. Frontera & J. Hjorth (eds), Springer-Verlag (Berlin Heidelberg), Pag. 195**
- 27) M. Bottcher, C.D. Dermer, **L. Amati**, F. Frontera, **2001**, "On the transient Fe K-edge in the prompt emission of GRB 990705 " **Proceedings of the Second Workshop "Gamma-Ray Bursts in the Afterglow Era" held in Rome on 17-20 October 2000, ESO Astrophysics Symposia, E. Costa, F. Frontera & J. Hjorth (eds), Springer-Verlag (Berlin Heidelberg), Pag. 160**
- 26) L.A. Antonelli, M. Vietri, L. Piro, E. Costa, P. Soffitta, M. Feroci, **L. Amati**, F. Frontera, E. Pian, J.J.M. in 't Zand, L. Stella, G.C. Perola, **2001**, "Discovery of a redshifted iron K-line in the X-ray afterglow of GRB 000214 " **Proceedings of the Second Workshop "Gamma-Ray Bursts in the Afterglow Era" held in Rome on 17-20 October 2000, ESO Astrophysics Symposia, E. Costa, F. Frontera & J. Hjorth (eds), Springer-Verlag (Berlin Heidelberg), Pag. 112**
- 25) F. Frontera, **L. Amati**, E. Costa, C. Guidorzi, M. Vietri, J.J.M. in 't Zand, **2001**, "Transient spectral features in the prompt emission of Gamma-Ray Bursts with BeppoSAX " **Proceedings of the Second Workshop "Gamma-Ray Bursts in the Afterglow Era" held in Rome on 17-20 October 2000, ESO Astrophysics Symposia, E. Costa, F. Frontera & J. Hjorth (eds), Springer-Verlag (Berlin Heidelberg), Pag. 106**
- 24) C. Guidorzi, F. Frontera, E. Montanari, F. Calura, **L. Amati**, E. Costa, M. Feroci, **2001**, "New possibilities offered by BeppoSAX: automatic GRB alerts using GRBM " **Proceedings of the Second Workshop "Gamma-Ray Bursts in the Afterglow Era" held in Rome on 17-20 October 2000, ESO Astrophysics Symposia, E. Costa, F. Frontera & J. Hjorth (eds), Springer-Verlag (Berlin Heidelberg), Pag. 43**
- 23) **L. Amati**, F. Frontera, M. Tavani, J.J.M. in 't Zand, E. Costa, C. Guidorzi, E. Montanari, P. Soffitta, **2001**, "Testing the Optically Thin Synchrotron Shock Model for Gamma-Ray Bursts spectra from 2 to 700 keV with BeppoSAX " **Proceedings of the Second Workshop "Gamma-Ray Bursts in the Afterglow Era" held in Rome on 17-20 October 2000, ESO Astrophysics Symposia, E. Costa, F. Frontera & J. Hjorth (eds), Springer-Verlag (Berlin Heidelberg), Pag. 34**
- 22) Masetti, N., Pian, E., Frontera, R., Palazzi, E., **Amati, L.**, Orlandini, M., dal Fiume, D., **2001**, "BeppoSAX Spectra of Five Low Mass X-ray Binaries ", **AIP conference proceedings, 599, 754**



- 21) Orio, M., Parmar, A. N., **Amati, L.**, Benjamin, R., della Valle, M., Frontera, F., Greiner, J., Mineo, T., Ögelman, H., Starrfield, S., Trussoni, E., **2001**, "*A BeppoSAX Observation of Nova Velorum 1999: A Very Bright Classical Nova*", **AIP conference proceedings, 599, 466**
- 20) F. Frontera, N. Masetti, M. Orlandini, **L. Amati**, E. Palazzi, D. Dal Fiume, S. Del Sordo, G. Cusumano, A. N. Parmar, G. Pareschi, I. Lapidus, L. Stella, **2000**, "*Discovery of hard X-ray emission from Type II bursts of the Rapid Burster*", **AIP conference proceedings, 599, 614**
- 19) **L. Amati**, F. Frontera, D. Dal Fiume, M. Orlandini, E. Palazzi, E. Costa, Feroci, P. Soffitta, M.N. Cinti, J. Heise, J. in 't Zand, J.M. Muller, L. Nicastro, M. Tavani, **2000**, "*Average properties of Gamma-Ray Bursts spectra from 2 to 700 keV with BeppoSAX*", **AIP conference proceedings, 599, 493**
- 18) E. Montanari, **L. Amati**, F. Frontera, C. Guidorzi, E. Costa, M. Feroci, J. Heise, J.J.M. in 't Zand, N. Masetti, E. Palazzi, E. Pian, **2000**, "*Afterglow emission from GRB990806 with the BeppoSAX satellite: Preliminary results*", **Conference Proceedings of the Italian Physical Society, vol. 68, Pag. 255**
- 17) **L. Amati**, F. Frontera, S. Del Sordo, N. Masetti, M. orlandini, E. Palazzi, E. Pian, P. Soffitta and J.J.M. in 't Zand, **2000**, "*Evidence of an absorption edge in the X-ray spectrum of GRB990705 with BeppoSAX*", **Conference Proceedings of the Italian Physical Society, vol. 68, Pag. 197**
- 16) E. Montanari, F. Calura, F. Frontera, C. Guidorzi, **L. Amati**, M. Rapisarda, M. Feroci, E. Costa and G. Landini, **2000**, "*Localization techniques of Gamma-Ray Bursts detected by the BeppoSAX Gamma Ray Burst Monitor*", **Conference Proceedings of the Italian Physical Society, vol. 68, Pag. 193**
- 15) Guidorzi, C.; Frontera, F.; **Amati, L.**; Costa, E.; Feroci, M., **2000**, "*A Search for Gamma-Ray Bursts in the GRBM/BeppoSAX Database*" **AIP Conference Series, Vol. 526, 18**
- 14) Preger, B., Costa, E., Feroci, M., **Amati, L.**, Frontera, F., **2000**, "*GRB Localization with the BeppoSAX Gamma-Ray Burst Monitor*" **AIP Conference Series, Vol. 526, 716**
- 13) Calura, F., Rapisarda, M., Frontera, F., Montanari, E., Guidorzi, C., **Amati, L.**, Feroci, M., Costa, E., Collina, P., **2000**, "*Response Function of the Gamma-Ray Burst Monitor (GRBM) Onboard the BeppoSAX Satellite*" **AIP Conference Series, Vol. 526, 721>**
- 12) E. Costa, L. Piro, F. Frontera, J. Heise, M. Feroci, **L. Amati**, L.A. Antonelli, R.C. Butler, M.N. Cinti, G. Cusumano, D. Dal Fiume, F. Fiore, J.J.M. in 't Zand, S. Molendi, J. Muller, L. Nicastro, M. Orlandini, A. Owens, E. Palazzi, A.N. Parmar, P. Soffitta & M. Tavani, **1998**, "*The temporal behaviour of Gamma Ray Burst and their afterglows from BeppoSAX data*", **AIP Conference Series, Vol. 428, 409**
- 11) M. Feroci, E. Costa, F. Frontera, **L. Amati**, L.A. Antonelli, R.C. Butler, M.N. Cinti, G. Cusumano, D. Dal Fiume, F. Fiore, J. Heise, J.J.M. in 't Zand, S. Molendi, J. Muller, L. Nicastro, M. Orlandini, A. Owens, E. Palazzi, A.N. Parmar, P. Soffitta & M. Tavani, **1998**, "*Spectral behaviour of X-ray afterglows of GRB observed by BeppoSAX*", **AIP Conference Series, Vol. 428, 404**

- 10) M. Feroci, F. Frontera, E. Costa, D. Dal Fiume, **L. Amati**, M.N. Cinti, L. Nicastro, M. Orlandini, E. Palazzi, G. Zavattini & A. Coletta, **1998**, "Performances and scientific results of the BeppoSAX", **AIP Conference Series, Vol. 428, 451**
- 9) F. Frontera, **L. Amati**, E. Costa, M. Feroci, J.M. Muller, G. Pizzichini, M.N. Cinti, D. Dal Fiume, J. Heise, L. Nicastro, M. Orlandini, E. Palazzi & J.M.M. in 't Zand, **1998**, "Broad band X-ray Spectral Properties of Gamma-Ray Bursts with BeppoSAX", **AIP Conference Series, Vol. 428, 446**
- 8) F. Frontera, E. Costa, D. Dal Fiume, M. Feroci, **L. Amati**, M.N. Cinti, A. Coletta, P. Collina, L. Nicastro, M. Orlandini, E. Palazzi, M. Rapisarda & G. Zavattini, 1997, "Initial results from the Gamma-Ray Burst Monitor aboard the X-ray astronomy satellite BeppoSAX", **Proc. of the XXV International Cosmic Ray Conference, Vol. 3, 25**
- 7) C. Guidorzi, **L. Amati**, M. Feroci, E. Costa, F. Frontera, D. Dal Fiume & M. Orlandini, **1998**, "Monitoring of high energy X-ray sources with the BeppoSAX GRBM", **Nucl. Phys. B, 69/1-3, 664**
- 6) **L. Amati**, L. Piro, L.A. Antonelli, R.C. Butler, E. Costa, G. Cusumano, M. Feroci, F. Frontera, J. Heise, J. in 't Zand, S. Molendi, J.M. Muller, L. Nicastro, M. Orlandini, A. Owens, A.M. Parmar, P. Soffitta & M. Tavani, **1998**, "BeppoSAX observations of GB970508: first evidence of bursting activity continuing on very long time scale", **Nucl. Phys. B Proc. Suppl., 69/1-3, 656**
- 5) M. Rapisarda, **L. Amati**, M.N. Cinti, M. Feroci, E. Costa, P. Collina, G. Zavattini, F. Frontera, L. Nicastro, M. Orlandini, E. Palazzi & D. Dal Fiume, 1997, "The Gamma-Ray Burst Monitor onboard BeppoSAX: the Monte Carlo simulation for the response matrix", **SPIE, 3114, 194**
- 4) M. Feroci, F. Frontera, E. Costa, D. Dal Fiume, **L. Amati**, L. Bruca, M.N. Cinti, A. Coletta, P. Collina, C. Guidorzi, L. Nicastro, M. Orlandini, E. Palazzi, M. Rapisarda, G. Zavattini & R.C. Butler, 1997, "In-flight performances of the Beppo-SAX Gamma-Ray Burst Monitor", **SPIE, 3114, 186**
- 3) **L. Amati**, M.N. Cinti, E. Costa, F. Frontera, D. Dal Fiume, P. Collina, L. Nicastro, M. Orlandini, E. Palazzi, M. Rapisarda & G. Zavattini, 1997, "Beppo-SAX/GRBM on-ground calibration data analysis", **SPIE, 3114, 176**
- 2) M. Feroci, E. Costa, F. Frontera, D. Dal Fiume, **L. Amati**, M.N. Cinti, L. Nicastro, M. Orlandini, E. Palazzi, M. Rapisarda & G. Zavattini, 1997, "First results from the Gamma-Ray Burst Monitor onboard BeppoSAX", **Conference Proceedings of the Italian Physical Society, vol. 58, 3**
- 1) **L. Amati**, M.N. Cinti, E. Costa, F. Frontera, M. Feroci, L. Nicastro, M. orlandini, D. Dal Fiume, M. Rapisarda, G. Zavattini, E. Palazzi & P. Collina, 1997, "Spectral capabilities of the Beppo-SAX/PDS lateral shields and Gamma-Ray Burst Monitor", **Conf. Proceedings of the Italian Physical Society, vol. 58, 7**

**Circulars of the International Astronomical Union (10)**

- 1) D. A. Frail, S. R. Kulkarni, L. Nicastro, D. Dal Fiume, M. Orlandini, E. Palazzi, G. Pizzichini, F. Frontera, G. Zavattini, **L. Amati**, M.N. Cinti, E. Costa, M. Feroci, L. Piro, R. Jager, J. Heise, K. Hurley, C. Kouveliotou, G. Fishman & C. Meegan, 1997, "GRB970111", **IAU Circular 6545 1F**
- 2) E. Costa, M. Feroci L. Piro, P. Soffitta, **L. Amati**, M. N. Cinti, F. Frontera, G. Zavattini, L. Nicastro, E. Palazzi, A. Tesserei, G. Gandolfi, M. Smith, D. Ricci, A. Coletta, J. Heise, J. in 't Zand, M. Tavani, 1997, "GRB970508", **IAU Circular 6649 1C**
- 3) J. Heise, J. in 't Zand, E. Costa, M. Feroci, L. Piro, P. Soffitta, **L. Amati**, M. N. Cinti, F. Frontera, G. Zavattini, L. Nicastro, E. Palazzi, A. Tesseri, G. Gandolfi, M. Smith, H. Muller, D. Ricci, A. Coletta, M. Tavani, H. E. Bond, 1997, "GRB970508", **IAU Circular 6654 2H**
- 4) M. Feroci, E. Costa, **L. Amati**, L. Piro, B. Martino, L. Di Ciolo, A. Coletta, F. Frontera, 1998, "SGR 1627-41", **IAU Circular 6945 1F**
- 5) Di Ciolo, L., Celidonio, G., Gandolfi, G., In 't Zand, J., Heise, J., Costa, E., **Amati, L**, 1998, "GRB981226", **IAU Circular 7074 1D**
- 6) Dadina, M., Di Ciolo, L., Coletta, A., Soffitta, P., Feroci, M., Heise, J., Kuulkers, E., Muller, J.M., Frontera, F., **Amati, L**, 1999, "GRB990510", **IAU Circular 7160 1D**
- 7) Heise, J., in 't Zand, J., Celidonio, G., Feroci, M., Soffitta, P., Piro, L., Palazzi, E., **Amati, L**, 1999, "GRB990704", **IAU Circular 7217 1H**
- 8) Dal Fiume, D., Frontera, F., Orlandini, M., **Amati, L**, Del Sordo, S., Stella, L., Belloni, T., Ricci, D., Capalbi, M., Daniele, M.R., 1999, "XTE J1859+226", **IAU Circular 7291 2D**
- 9) **Amati, L.**, Frontera, F., Pian, E., Giommi, P., Capalbi, M., Costa, E., Gandolfi, E., in 't Zand, J.J.M., Guidorzi, C., Granata, S., Paolino, A. , 2000, "GRB 001109", **IAU Circular 7519 1A**
- 10) Guidorzi, C., Frontera, F., Montanari, E., **Amati, L.**, Orlandini, M., Costa, E., Feroci, M., Gandolfi, G., in 't Zand, J.J.M., D'Andreta, G., 2001, "SGR1900+14", **IAU Circular 7611 2G**