

Curriculum Vitae et Studiourum

15/04/10

Sergio Campana

1) PERSONAL

Italian, 44 years

Married

Four children

2) EDUCATION

- Ph. D. in Astronomy, University of Milan, Advisor: Prof. L. Stella & Prof. G. Chincarini

Problems on accretion onto compact objects (September 1993)

- B.S. Physics (summa cum laude) University of Pavia, (Ghislieri college), Advisor; Prof. M. Carfora

Topological fluctuations in quantum gravity (July 1989)

3) POSITIONS

2003-present: Associate astronomer/Primo Ricercatore at Brera Observatory

2000-2003: Staff astronomer at Brera Observatory

1998-2000: Technical staff position on X-ray satellites at Brera Observatory

1996-1997: Post-doc fellow (calibration and ground segment of the JET-X telescope) at Brera Observatory

1994-1996: High Energy Astrophysics fellowship (ASI) at Brera Observatory

1993-1994: Short visits: ICRA (Roma), SISSA (Trieste), Princeton University

4) RESEARCH INTERESTS

- Gamma-ray bursts, focussing on the environment, the progenitors and high redshift objects

- Compact objects, focussing on transient sources (especially LMXRBs in quiescence) and AXPs

- Cosmic X-ray background

- Wavelet detection algorithm for sources in X-ray images

5) INSTRUMENTATION ACTIVITIES

- study of polynomial (wide-field) mirrors for X-ray astronomy

- calibration on ground (at the Panter-MPE site) and in flight of X-ray mirrors and instruments

6) WEITHING SCIENTIFIC RESEARCH

Best Impact Factor (IF) Italian (INAF and associates) scientist based on refereed papers from 2000 (see

http://www.brera.inaf.it/utenti/campana/impact_italy.html) as well as tenth in Europe and 36st in the world (see

http://www.brera.inaf.it/utenti/campana/impact_world.html) as 20/08/2009

7) OBSERVING EXPERIENCE

Approved proposals as a PI on:

- X-ray: ROSAT, BeppoSAX, Chandra, XMM-Newton, RXTE, Integral, Swift

- Optical/NIR: ESO-NTT/3.6, ESO-VLT, TNG

8) SERVICE ACTIVITIES

2008-2009: PI of the mirror module of the XIAO telescope onboard ÉCLAIR

2005-6-7: Member of the Swift TAC for Galactic objects
2004-present: Swift: Responsible for the calibration of the XRT instrument
2002-present: Swift associated scientist
2003-4: Member of the XMM-Newton TAC for X-ray binaries
2003: REM: Rapid Eye Mount - Visiting committee (president)
1999-2003-5-7-9: SOC member of the national congress on compact objects
1998-present: Referee for Nature, ApJ, ApJ Letters, A&A, A&A Letter, MNRAS, MNRAS Letter, Opt. Engin., X-ray Optics and Instrumentation, Ad. Space. Res., Nuovo Cimento,
Partecipation as co-I to several mission proposals: JET-X, Panoram-X, EXTRA, HEXIT, Simbol-X, Duet, ESTREMO, EDGE, XIAO, Xenia, WFXT, EXIST, NHXM.

9) RESEARCH GRANTS (PI only)

ASI Swift (XRT, 2007, 4yr): 134.0 kE
ASI Archival data proposals (compact objects, National PI, 2007, 1yr): 28.0 kE
ASI Data analysis (compact objects, 2007, 1yr): 7.0 kE
ASI Swift (gamma-ray bursts, 2007, 1yr): 12.0 kE
ASI Archival data proposal (compact object, National PI, 2005, 1yr): 189.0 kE
ASI INTEGRAL (science, 2005, 1yr): 36.0 kE
ASI Swift (XRT, 2003, 4yr): 51.3 kE
ASI INTEGRAL (science, 2002, 1yr): 9.3 kE
ASI SAX (science, 2002, 1yr) 8.0 kE
ASI SAX (science, 2001, 1yr): 10.3 kE
CNR grant for young students (compact objects, 2000, 1yr): 10.3 kE
ASI SAX (science, 1999, 1yr): 6.0 kE
ASI SAX (science, 1998, 1yr): 2.0 kE

10) PAPERS & BOOKS

Total number of accepted, refereed papers on the SAO/NASA Astrophysical Data System (ADS): 234.
According to my records: 196 accepted, 1 submitted, 29 SPIE (not included in the ADS), for a total of 236 (42 as leading author). Lead or co-author of 239 astronomical circulars (GCN, ATel, IAUC).
Total number of citations to refereed papers according to ADS: 8015 (as Apr 15, 2010), *h*-index: 42.5
Editor of one book: proc. of the international congress "Swift and GRBs: Unveiling the relativistic Universe", Eds. S. Campana, G. Chincarini, S. Covino, G. Tagliaferri, Nuovo Cimento v.121B.

11) SELECTED INVITED TALKS AND SEMINARS

- Absorption studies of GRBs in the X-ray band in *The shocking Universe* (Venezia, September 2009)
- Swift advances in compact object science in *Neutron stars and Gamma-ray bursts* (Cairo, April 2009)
- Transient Neutron Stars in *Simbol-X: the hard X-ray universe in focus* (Bologna, May 2007)
- X-rays from high-redshift GRBs in *070228: The Next Decade of GRB Afterglows* (Amsterdam, March 2007)
- The wonders of XRF060218: catching a SN in the act of exploding, seminar at the University of Pisa (June 2007)
- The Swift gamma-ray burst explorer: early views, seminar at the University of Insubria (May 2005)
- The restless neutron star transients in quiescence, seminar at the University of Cagliari (June 2004)
- New results on neutron star low mass transients in the quiescence in *Spectra and timing of accreting X-ray binaries* (Mumbai, January 2004)
- New results on NS low mass transients in the quiescence in *The Restless High-Energy Universe* (A'dam, May 2003)
- X-ray transients in quiescence, seminar at Bologna Observatory (June 2000)

- X-ray transients in quiescence in *X-ray Astronomy 1999: Stellar Endpoints, AGN, and the Diffuse X-ray Background* (Bologna, September 1999)
- The neutron stars of soft X-ray transients, seminar at MPE-Garching (April 1999)

12) HONORS AND AWARDS

- 2009: Maria & Eric Muhlmann Award, Astronomical Society of the Pacific, Swift Team
- 2007: Bruno Rossi Prize (N. Gehrels & the Swift team)
- 2006: Popular Science, Best of What's New award, Swift Team
- 2005: NASA Exceptional Scientific Achievement to the Swift Science team
- 2005: Arecibo distinguished user

13) SELECTED MEDIA COVERAGE

- Science, "Flashing out a Star's Demise", Aug 30 2006
<http://sciencenow.sciencemag.org/cgi/content/full/2006/830/3>
- Image on the first page of the *Corriere delle Sera*, August 31, 2006
- INAF press release "Trilogia italiana per un lampo gamma un po' soft"
<http://www.inaf.it/ufficio-stampa/comunicati-stampa-del-2006/plonearticle.2006-08-30.7484693572>

14) WEB PAGE

<http://www.brera.inaf.it/utenti/campana/index.html>