

## Curriculum Vitae - Piergiorgio Casella

Marie Curie Postdoctoral Fellow

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Place & Date of Birth: Rome, 13th October 1973  
Nationality: Italian

### Education:

3 Mar 2005 **Ph.D.** in Physics at the University of Rome “Roma Tre”  
Supervisors: Prof. L. Stella, Prof. G. Matt  
Title: “*Fast aperiodic variability of stellar-mass black holes in X-ray binaries*”

11 May 2001 **Laurea** (M.Sc. equivalent) in Physics (marks: 110/110) at the University of Rome “Tor Vergata”  
Supervisors: Prof. A. Cavaliere, E. Costa  
Title: “*Study of the spectral variability of microquasar GRS 1915+105 with the satellite BeppoSAX*”

### Employment:

Jun 2009 - **Marie Curie Fellow** at the University of Southampton (UK)  
Jan 2009 - Feb 2009 **Visiting Scientist** at ESO, Santiago (Chile)  
Jan 2006 - May 2009 Post-doc at the Astronomical Institute, UvA, Amsterdam (NL)  
Apr 2006 - Mar 2007 **NWO Rubicon Fellow** at the API/UvA, Amsterdam (NL)  
Jan 2005 - Dec 2005 Post-doc at the OAB/INAF, Milan (IT)  
Jul 2004 - Dec 2004 Research Fellow at the OAB/INAF, Milan (IT)  
Jan 2002 - Dec 2004 PhD Student at the University of Rome  
Nov 2001 - Apr 2002 Visiting Student at the Harvard-Smithsonian CfA, Cambridge (US)  
1992 - 2001 Studies in Physics at the University of Rome “Tor Vergata” (IT)

### Grants and Awards:

2009 - 2011 Marie Curie Fellowship  
Jan 2009 - Feb 2009 ESO Visiting Scientist support & travel grants  
2006 - 2007 NWO Rubicon Fellowship  
2006 - 2008 Several Dutch national traveling LKBF grants  
1 Jul 2006 Young Researcher Grant from COSPAR  
May 2002 - Apr 2003 National Scholarship Award from the Italian Research National Council at the IASF/CNR, Rome

### Research Interests:

- Physics of accretion
- Disk-jet connection
- Multi-wavelength variability
- Black-Hole X-ray Binaries
- Neutron Star Low-Mass X-ray Binaries
- Accreting Millisecond X-ray Pulsars
- Ultraluminous X-ray Sources

### Languages:

- Italian (mother tongue), English (professional), French (scholastic), Dutch (basics)

### References:

- Prof. Luigi Stella, [stella@mporzio.astro.it](mailto:stella@mporzio.astro.it) Tel: +39-06-94286436  
INAF - Osservatorio Astronomico di Roma  
Via Frascati, 33 - 00040 Monteporzio Catone (Roma) - Italy
- Prof. Michiel van der Klis, [m.b.m.vanderklis@uva.nl](mailto:m.b.m.vanderklis@uva.nl)  
Sterrenkunde Instituut “A. Panekook”, Universiteit van Amsterdam  
Kruislaan 403, 1098 SJ Amsterdam, The Netherlands
- Dr. Tom Maccarone, [tjm@phys.soton.ac.uk](mailto:tjm@phys.soton.ac.uk) Tel: +31 (0)205257498  
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- Dr. Tomaso Belloni, [tomaso.belloni@brera.inaf.it](mailto:tomaso.belloni@brera.inaf.it) Tel: +39-039-597-1026  
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### Services to the community:

- Referee for *The Astrophysical Journal Letters*
- Referee for *The Astrophysical Journal*
- Referee for *Monthly Notices of the Royal Astronomical Society*
- Referee for *Astronomy & Astrophysics*
- NASA Peer Review panelist for SWIFT
- Member of the Promotiecommissie (PhD Committee) at the University of Amsterdam, PhD candidate Paolo Soleri (thesis: “Observations of jets and disks in X-ray binaries”). Thesis discussed on May 11th 2010
- Member of the International Working Team (15 members) on “Strong gravitational field and ultra-dense matter in neutron stars”, meeting to be held at the ISSI in Berne, 18-22 January 2010
- Member of Scientific and Local Organizing Committee of the Workshop “A Decade of Accreting Millisecond Pulsars”, Amsterdam, 2008
- Member of the Local Organizing Committee of the VI Microquasar Workshop, Como, 2006
- Member of the Local Organizing Committee of the Third Italian National Congress on Compact Objects, M. P. Catone, 2003

### Books and Reviews:

- Co-Editor of the book “*Physics of Relativistic Objects in Compact Binaries: from Birth to Coalescence*”, edited by M. Colpi, **P. Casella**, V. Gorini, U. Moschella, A. Possenti, *Astrophysics and Space Science Library*, Vol. 359. Berlin: Springer, 2009

### Invited talks, Seminars and Lectures:

- Invited Lecturer on “Multiwavelength variability in X-ray binaries: methods and Physics” at the Variability Workshop to be held in Southampton, May 2010
- Colloquium “Multiwavelength variability from jets, a new powerful tool” at the University of Southampton (UK), November 2009
- Highlighted talk “Multi-wavelength variability in X-ray binaries” at the Italian National Conference on Astrophysics of Compact Objects, Cagliari (Italy), September 2009
- Lunch talk “Multiwavelength variability in X-ray binaries, a new powerful tool” at ESO Santiago (Chile), February 2009
- Colloquium “Discovery of two intermittent millisecond X-ray pulsars” at ESO Santiago (Chile), February 2009

- Invited talk “Low-frequency QPOs in X-ray binaries: a key tool” at the Microquasar Workshop, Agios Nikolaos (Crete), June 2007
- Solicited talk “Low-frequency QPOs in X-ray binaries: fundamental physics at work” at the CO-SPAR meeting, Beijing (China), July 2006
- Lecture “Periodicità nel caos attorno ai Buchi Neri” at the University of Cagliari (Italy), June 2005
- Colloquium seminar “Low-frequency QPOs in X-ray Binaries: fundamental Physics at work” at SRON, Utrecht (The Netherlands), August 2005
- Lecture “QPO a bassa frequenza in Binarie X: fisica fondamentale in azione” at the University of Milano Bicocca (Italy), December 2005

### Technical & Observational Experience

#### Observing experience:

✓List of **approved** observing proposals:

##### As **PRINCIPAL Investigator**:

- XMM (X-rays) (DDT) “Multiwavelength fast timing of black hole X-ray binary Cyg X-1”
- SPITZER (infrared) “Rapid variability of jets in X-ray binaries: a new tool”
- WSRT (radio) “Radio timing analysis of black hole X-ray binary Cyg X-1”
- RXTE (X-rays) (included in Core Program after original approval) “Coordinated fast X-ray, optical and infrared variability of low-mass X-ray binaries: ToO observations of black-hole transients during spectral transitions”
- RXTE (X-rays) “Coordinated fast multiwavelength variability of neutron-star Low-Mass X-ray Binaries”
- SWIFT (X-rays) “State transitions of black-hole transients during outburst”
- VLT/ISAAC (infrared) (DDT) “Solving the puzzle of the jet contribution to the infrared/optical emission of Galactic black holes.”
- VLT/ISAAC (infrared) (DDT) “Fast infrared variability from a black hole: measuring the speed, size and geometry of a relativistic jet”
- VLT/ISAAC (infrared) “Infrared polarization and rapid time variability in transient X-ray binary systems harboring black-hole candidates”
- VLT/ISAAC (infrared) “Coordinated fast X-ray and infrared variability of low-mass X-ray binaries: testing the jet power of neutron stars”
- VLT/ISAAC (infrared) ULTRACAM (optical) “Flaring and Flickering in low accretion rate X-ray binaries”
- REM (infrared) (approved multiple times) “A multiwavelength view of the evolving jet in black hole transients”

##### As **CO-Investigator**:

- Science case submitted to ESO in reply to the call for European ELT Design Reference Science Plan, “Probing jet formation near the event horizons of black holes” using fast photometers. (PI: D. Russell)
- Internal ESO proposal to the Paranal director, for the implementation of a High Time Resolution Observing Mode on the VLT instrument HAWK-I (PI: V. Ivanov)
- Participation to several multi-wavelength (X/EUV/Optical/Infrared/Radio/Gamma) observational campaigns of X-ray binaries with ground- and space-based telescopes
- Observing proposals of X-ray binaries with the optical telescope WHT
- Observing proposals of X-ray binaries with SAX, RXTE, Integral, Chandra, XMM and Swift
- Observing proposals of X-ray binaries with VLT (IR fast photometry and polarization)
- DDT proposals for X-ray binaries with VLT (IR fast photometry and polarization)

- Observing proposal of Active Galactic Nuclei with Chandra
- ✓ Optical observations: Observations of the open cluster NGC 6649, and evaluation of the cluster age, using the Cassegrain 42 cm telescope, at the Rome Astronomical Observatory, as part of the course “Laboratory of Physics II” (tutor: Dr. G. Natali).

**Data Analysis:**

*Timing analysis:* Several timing techniques and softwares, for both aperiodic and periodic variability.

*Spectral analysis:* X-ray spectral analysis. Theoretical modeling of jet broad-band spectral emission.

**Data Reduction:**

*X-ray analysis:* Data from the X-ray satellites RXTE, Swift, XMM, Chandra, and BeppoSAX.

*IR analysis:* Data from the ISAAC (VLT) and REMIR (REM) instruments.

*UV analysis:* Data from the UV satellite FUSE

**Software:**

*Programming languages:* FORTRAN, IDL, Smongo, Matlab

*Data Reduction and Analysis Packages:* Use of standard analysis software tools (Ftools,

Xspec, Xronos, Saxdas, XAS, CIAO, etc..)

**Operative Systems:** Very good knowledge of Linux, Unix, Windows and Mac OS X.

**Ongoing collaborations:**

- $\Gamma$ -ray/X-ray/optical/IR/radio coordinated fast variability of BHs and NSs (UK/IT/ESO/NL/D/USA)
- Theoretical modeling of timing and spectral properties of jets in XBs (UK/US/NL)
- Multiwavelength monitoring of BHs (UK/IT/NL/USA)
- Optical/IR polarimetry of BHs and NSs (NL/UK/ESO/D/USA)
- Archival searches for Millisecond X-ray Pulsars (NL/UK)
- Variability of Ultraluminous X-ray Sources (UK/IT)
- Phase-resolved spectroscopy of Millisecond X-ray Pulsars (NL/UK)
- “Black Hole Universe” Marie Curie ITN 2008-215212 (D/UK/IT/NL/F/TR)

**Teaching / Tutoring activity:**

- 2008, University of Amsterdam: co-tutoring (with Prof. M. van der Klis) of three undergraduate students (G. ten Broeke, B. van Dam, J. Paijmans) of the University of Amsterdam for a bachelor project. The students chose the project among those proposed to them by myself and several other staff members of the Astronomical Institute. During the project, the students studied the Physics of accretion under my direct supervision, with the focused task of searching and calculating possible characteristic timescales of an accretion disc.
- 2010, University of Southampton: co-tutoring (with Dr. T. J. Maccarone) of an undergraduate student (E. K. Panagoulie) of the University of Southampton for a 3rd year Summer Project. The student chose the project among those proposed to her by myself and several other staff members of the Astronomical Institute. During the project, the student learnt and applied standard timing techniques, analyzing high-time resolution data from the NASA X-ray satellite RXTE. She studied characteristic timing features (quasi-periodic oscillations) in the X-ray light curves of X-ray binaries, and carried out a comprehensive analysis, learning both technical and strategical approaches.

## PEER-REVIEWED PUBLICATIONS

**- as 1st author -**

- 1) **Casella P.**, Maccarone T., O'Brien K., Fender R., Russell D., van der Klis M., Pe'er A., Maitra D., Altamirano D., Belloni T., Kanbach G., Klein-Wolt M., Mason E., Soleri P., Stefanescu A., Wiersma K., & Wijnands R., 2010, MNRAS Letters, 404, 21  
*Fast infrared variability from a relativistic jet in GX 339-4*
- 2) **Casella P.**, Pe'er A., 2009, ApJ Letters, 703, 63  
*On the role of the magnetic field on jet emission in X-ray binaries*
- 3) **Casella P.**, Ponti G., Patruno A., Belloni T., Miniutti G., & Zampieri L., 2008b, MNRAS, 387, 1707  
*Weighing the black holes in ultraluminous X-ray sources through timing*
- 4) **Casella P.**, Altamirano D., Patruno A., Wijnands R., & v. d. Klis M., 2008a, ApJ Letters, 674, L41  
*Discovery of coherent millisecond X-ray pulsations in Aql X-1*
- 5) **Casella P.**, Belloni T., & Stella L., 2006, A&A, 446, 579  
*A continuous Flaring- to Normal-branch transition in Sco X-1*
- 6) **Casella P.**, Belloni T., Stella L., 2005, ApJ, 629, 403  
*The ABC of low-frequency quasi-periodic oscillations in Black-Hole Candidates: analogies with Z-sources*
- 7) **Casella P.**, Belloni T., Homan J., & Stella L., 2005, AdSpR, 38, 1346  
*The timing history of the microquasar XTE J1859+226*
- 8) **Casella P.**, Belloni T., Homan J., & Stella L., 2004, A&A, 426, 587  
*A study of the low-frequency quasi-periodic oscillations in the X-ray light curves of the black hole candidate XTE J1859+226*

**- as co-author -**

- 9) *The kilohertz quasi-periodic oscillations during the Z and atoll phases of the unique transient XTE J1701-4 62*  
Sanna A., Méndez M., Altamirano D., Homan J., **Casella P.**, Belloni T., Lin D., van der Klis M., Wijnands R., 2010, MNRAS, tmp1142, in press (arXiv:1005.3217)
- 10) *Rapid optical and X-ray timing observations of GX339-4: multicomponent optical variability in the low/hard state*  
Gandhi P., Dhillon V. S., Durant M., Fabian A. C., Kubota A., Makishima K., Malzac J., Marsh T. R., Miller J. M., Shahbaz T., Spruit H. C., **Casella P.**, 2010, MNRAS, tmp1137, in press (arXiv:1005.4685)
- 11) *Parsec-scale Bipolar X-ray Shocks Produced by Powerful Jets from the Neutron Star Circinus X-1*  
Sell P. H., Heinz S., Calvelo D. E., Tudose V., Soleri P., Fender R. P., Jonker P. G., Schulz N. S., Brandt W. N., Nowak M. A., Wijnands R., van der Klis M., **Casella P.**, 2010, ApJ, 719, 194
- 12) *The Return of the Bursts: Thermonuclear Flashes from Circinus X-1*  
Linares M., Watts A., Altamirano D., Soleri P., Degenaar N., Yang Y., Wijnands R., **Casella P.**, Homan J., Chakrabarty D., Rea N., Armas-Padilla M., Cavecchi Y., Kalamkar M., Kaur R., Patruno A., van der Klis M., 2010, ApJ, 719, 84
- 13) *XTE J1701-462 and Its Implications for the Nature of Subclasses in Low-magnetic-field Neutron Star Low-mass X-ray Binaries*  
Homan J., van der Klis M., Fridriksson J. K., Remillard R. A., Wijnands R., Méndez M., Lin D., Altamirano D., **Casella P.**, Belloni T. M., Lewin W. H. G., 2010, ApJ, 719, 201
- 14) *Black hole candidate XTE J1752-223: Swift observations of canonical states during outburst*  
Curran P. A., Maccarone T. J., **Casella P.**, Evans P. A., Landsman W., Krimm H. A., Brocksopp C., Still M., 2010, MNRAS, in press (arXiv:1007.5430)
- 15) *Timing of the first eclipsing accretion-powered millisecond X-ray pulsar*  
Altamirano D., Cavecchi Y., Patruno A., Watts A., Linares M., Degenaar N., Kalamkar M., van der Klis M., Rea N., **Casella P.**, Armas Padilla M., Kaur R., Yang Y. J., Soleri P., Wijnands R., 2010, ApJL, submitted (arXiv:1005.3527)

- 16) *A strong and broad iron line in the XMM-Newton spectrum of the new X-ray transient and black-hole candidate XTE J1652-453*  
Hiemstra B., Mendez M., Done C., Diaz Trigo M., Altamirano D., **Casella P.**, 2010, MNRAS, submitted (arXiv:1004.4442)
- 17) *Investigating the disc-jet coupling in accreting compact objects using the black hole candidate Swift J1753.5-0127*  
Soleri P., Fender R., Tudose V., Maitra, D., Bell, M., Linares, M., Altamirano, D., Wijnands, R., Belloni, T., **Casella, P.**, Miller-Jones, J. C. A., Muxlow, T., Klein-Wolt, M., Garrett, M., van der Klis, M., 2010, MNRAS, 406, 1471
- 18) *A Model for Emission from Jets in X-ray Binaries: Consequences of a Single Acceleration Episode*  
Pe'er A., **Casella P.**, 2009, ApJ, 699, 1919
- 19) *Discovery of burst oscillations near the spin frequency in the intermittent accreting millisecond pulsar HETE J1900.1-2455*  
Watts, A., Altamirano, D., Linares, M., Patruno, A., **Casella P.**, Cavecchi, Y., Degenaar, N., Rea, N., Soleri, P., van der Klis, M., Wijnands, , 2009, ApJ, 698, 174
- 20) *A parsec scale X-ray extended structure from the X-ray binary Circinus X-1*  
Soleri P., Heinz S., Fender R., Wijnands R., Tudose V., Altamirano D., Jonker P., van der Klis M., Kuiper L., Kaiser C., **Casella P.**, 2009, MNRAS, 397, 1
- 21) *Broad-band X-ray spectral evolution of GX 339-4 during a state transition*  
del Santo M., Belloni T., Homan J., Bazzano A., **Casella P.**, Fender R., Gallo E., Gehrels N., Lewin W. H. G., Méndez M., van der Klis M. et al., 2009, MNRAS, 392, 992
- 22) *Phase-coherent timing of the accreting millisecond pulsar SAX J1748.9-2021*  
Patruno A., Altamirano D., Hessels J., **Casella P.**, Wijnands R., van der Klis M., 2009 ApJ, 690, 1856
- 23) *Intermittent millisecond X-ray pulsations from the neutron-star X-ray transient SAX J1748.9-2021 in the globular cluster NGC 6440*  
Altamirano D., **Casella P.**, Patruno A., Wijnands R., & v. d. Klis M., 2008, ApJL, 674, L45
- 24) *A transient low-frequency quasi-periodic oscillation from the black hole binary GRS 1915+105*  
Soleri P., Belloni T., **Casella P.**, 2008, MNRAS, 383, 1089
- 25) *RXTE observations of the first transient Z source XTE J1701-462: shedding new light on mass accretion in luminous neutron star LMXBs*  
Homan J., van der Klis M., Wijnands R., Belloni T., Fender R., Klein-Wolt M., **Casella P.**, Mendez M., Gallo E., Lewin W. H. G., Gehrels N., 2006, ApJ, 656, 420
- 26) *High-frequency Quasi-Periodic Oscillations from GRS 1915+105 in its C state*  
Belloni T., Soleri P., **Casella P.**, Mendez M., Migliari S., 2006, MNRAS, 369, 305
- 27) *INTEGRAL/RXTE high-energy observation of a state transition of GX 339-4*  
Belloni T., Parolin I., Del Santo M., Homan J., **Casella P.**, Fender R. P., Lewin W. H. G., Méndez M., Miller J. M., van der Klis M., 2006, MNRAS, 367, 1113
- 28) *A variable Quasi-Periodic Oscillation in M82 X-1. Timing and spectral analysis of XMM-Newton and RossiXTE observations*  
Mucciarelli P., **Casella P.**, Belloni T., Zampieri L., & Ranalli P., 2006, MNRAS, 365, 1123
- 29) *Discovery of rapid X-ray oscillations in the tail of the SGR 1806-20 hyperflare*  
Israel G.L., Belloni T., Stella L., Rephaeli Y., Gruber D. E., **Casella P.**, Dall'Osso S., Rea N., Persic M., Rothschild R. E., 2005, ApJL, 628, L53
- 30) *The evolution of timing properties of GX 339-4 during its 2002/2003 outburst*  
Belloni T., Homan J., **Casella P.**, van der Klis M., Nespoli E., Lewin W. H. G., Miller J. M., Mendez M., 2005, A&A, 440, 207
- 31) *A transient high coherence oscillation in 4U 1820-30*  
Belloni T., Parolin I., **Casella P.**, 2004, A&A, 423, 969
- 32) *The irregular  $\rho$  mode of GRS 1915+105 observed with BeppoSAX*  
Massaro E., Litterio M., Cusumano G., Mineo T., **Casella P.**, Feroci M., 2004, NuPhS, 132, 408
- 33) *The Far Ultraviolet Spectroscopic picture of the Missing Baryons in the Local Group*  
Nicastrò F., Zezas A., Elvis M., Mathur S., Fiore F., Cecchi-Pestellini C., Burke D., Drake J., **Casella P.**, 2003, Nature, 421, 719

- 34) *Study of the Largest Multiwavelength Campaign of the Microquasar GRS 1915+105*  
 Ueda Y., et al., 2002, ApJ, 571, 918
- 35) *The 2000 April multiwavelength campaign of GRS 1915+105*  
 Ueda Y., et al., 2001, ApSSS, 276, 25
- 36) *BeppoSAX observations of GRS 1915+105*  
 Feroci M., Casella P., et al., 2001, ApSSS, 276, 15

## PROCEEDINGS

- *Fast multiwavelength variability from jets in X-ray binaries*  
 Casella P., Maccarone T. J., O'Brien K., 2010, HTRA IV, to appear
- *Intermittent accreting millisecond pulsars: light houses with broken lamps?*  
 Altamirano D, Casella P., 2008, AIPC, 1068, 63
- *Multiwavelength Observations of the Black Hole Candidate Swift J1753.5-0127*  
 Soleri P., et al., 2008, AIPC, 1010, 103
- *Timing analysis of 10-day long BeppoSAX observation of GRS 1915+105 in its  $\rho$  class*  
 Massaro E., et al. 2008, mqw, confE, 96
- *X-ray jets from the X-ray binary Cir X-1*  
 Soleri P., et al., 2008, mqw, confE, 48
- *Ultraluminous X-ray sources: X-ray timing and new optical observations*  
 Zampieri L. et al., 2006, AIPC, 861, 799
- *Ultraluminous X-ray Sources in Nearby Galaxies: Clues on their Nature from X-ray Timing and New Optical Data*  
 Zampieri L., et al., 2006, ESASP, 604, 189
- *Fast aperiodic variability in the black hole binary GRS 1915+105: the timing signature of relativistic ejection events*  
 Soleri P., Belloni T., Casella P., 2006, smqw, confE, 43
- *Time and spectral changes of GRS 1915+105 in the  $\rho$  class*  
 Ventura G., et al., 2005, AIPC, 797, 635
- *Transient QPOs in the microquasar XTE J1859+226*  
 Casella P., et al., 2005, AIPC, 797, 225
- *Study of the largest multiwavelength campaign of the microquasar GRS 1915+105*  
 Ueda Y., et al., 2003, nvm, conf, 301
- *Wide-band X-ray variability of GRS 1915+105 observed with BeppoSAX*  
 Casella P., et al., 2001, AIPC, 587, 91
- *Wide-band X-ray spectroscopy of GRS 1915+105*  
 Casella P., et al., 2001, ESASP, 459, 403

## Conference Participation

- Black Hole Variability 2010: expanding our frontiers, Southampton, 2010
- High Time Resolution Astrophysics IV - The Era of Extremely Large Telescopes, Agios Nikolaos, Crete, 2010
- High Energy Astrophysics Division (HEAD) of the American Astronomical Society, Hawaii, 2010 (poster)
- VI Italian National Conference on Astrophysics of Compact Objects, Cagliari, 2009 (talk)
- 8th Microquasar Workshop, Foca, Turkey, September 2008
- COSPAR General Assembly, Montreal, 2008 (2 talks)
- V Italian National Conference on Astrophysics of Compact Objects, S.Vito lo Capo, 2007 (talk)
- 7th Microquasar Workshop, Agios Nikolaos, Crete, 2007 (talk)
- 6th Microquasar Workshop, Como, Italy, 2006

- COSPAR General Assembly, Beijing, 2006 (talk)
- IV Italian National Conference on Astrophysics of Compact Objects, Padova, 2005 (talk)
- COSPAR General Assembly, Paris, 2004 (talk)
- Workshop on “Interacting Binaries”, Cefalu, 2004 (talk)
- III Italian, National Conference on Astrophysics of Compact Objects, M. P. Catone, 2003 (talk)
- American Physical Society, April Meeting, Jointly Sponsored with the High Energy Astrophysics Division (HEAD) of the American Astronomical Society, Albuquerque, 2002 (poster)
- II Italian National Conference on Astrophysics of Compact Objects, Bologna, 2001 (talk)
- XLIV Italian National Congress, Societa’ Astronomica Italiana, M.P. Catone, 2000 (talk)

### Schools Participation

- SIGRAV School, VI Edition on “A century from Einstein Relativity: probing gravity theories in binary systems”, Como, Italy, 2005.
- NATO-Advanced Study Institute School on “The Electromagnetic Spectrum of Neutron Stars”, Marmaris, Turkey, 2004
- Italian National Astrophysics School: VII Cycle, II Course on “Astrophysics of the Interstellar Medium - Pulsars and Collapsed Objects”, Cagliari, Italy, 2003
- Time-Frequency Analysis Excellence Course by Prof. Leon Cohen (Hunter College of the City University of New York), Torino, Italy, 2003
- International School on “Black Holes in the Universe”, Cargese, France, 2003
- Italian National Astrophysics School: VI Cycle, IV Course on “Cosmology and Relativistic Astrophysics”, Asiago, Italy, 2001

### Astronomical Telegrams

- **#2734** *Radio and X-ray monitoring of Cygnus X-1 during the recent state change.* Rushton et al.
- **#2672** *New outburst of the accreting millisecond X-ray pulsar NGC 6440 X-2 and discovery of a strong 1 Hz modulation in the light-curve.* Patruno et al.
- **#2651** *Swift-XRT detects X-ray burst from Circinus X-1.* Linares et al.
- **#2643** *RXTE detects X-ray bursts from Circinus X-1.* Linares et al.
- **#2579** *SWIFT J1749.4-2807: X-ray decay, refined position and optical observation.* Yang et al.
- **#2565** *Detection of coherent millisecond pulsations at ~518 Hz in the LMXB Swift J1749.4-2807 (GRB060602B).* Altamirano et al.
- **#2467** *Spectral transition of 4U 1608-522 during the undergoing 2010 outburst.* Del Monte et al.
- **#2182** *Discovery of a ~205 Hz X-ray pulsar in the globular cluster NGC 6440.* Altamirano et al.
- **#2004** *Discovery of burst oscillations near the spin frequency in the intermittent accreting millisecond pulsar HETE J1900.1-2455.* Watts et al.
- **#1979** *Discovery of the shortest recurrence time between thermonuclear X-ray bursts.* Linares et al.
- **#1962** *Optical photometry and polarimetry of GX 339-4 during its outburst rise* Russell et al.
- **#1960** *RFO: MOST Observations of GX 339-4.* Hunstead et al.
- **#1954** *Renewed activity from GX 399-4.* Still et al.
- **#1748** *Radio non-detection of SAX J1808.4-3658.* Tudose et al.

- **#1733** *Near-IR and Optical Observations of the Ongoing Outburst of SAX J1808.4-3658.* Maitra et al.
- **#1178** *Following the neutron star transient XTE J1701-462 as it turns into quiescence.* Altamirano et al.
- **#748** *Spectral evolution and kHz QPOs in the transient Z source XTE J1701-462.* Homan et al.
- **#725** *Continuing RXTE observations of XTE J1701-462: a new "Z" in town?* Homan et al.

#### **GCN**

- **#10014** *GRB 091010: RXTE detection.* Watts et al.