

# High Energy View of Accreting Objects: AGN and X-ray Binaries

Agios Nikolaos, Crete, Greece

5-14 October 2010

## AGN session:

| Tuesday, 5 October 2010              |   |                     |
|--------------------------------------|---|---------------------|
| Session: AGN Accretion and Ejection  |   |                     |
| 9:30-10:10                           | <a href="#">AGN Accretion Modes</a>   | B. Czerny (I)       |
| 10:10-10:35                          | <a href="#">Multi-wavelength monitoring of a low-mass AGN: implications for the accretion flow</a>            | H. Flohic (C)       |
| 10:35-11:00                          | <a href="#">Emissivity Profiles of AGN Accretion Discs and their Implications</a>                             | D. Wilkins (C)      |
| 11:00-11:30                          | <b>Coffee Break</b>   |                     |
| 11:30-12:10                          | <a href="#">Disc Inflows and Outflows</a>   | M. Begelman (I)     |
| 12:10-12:35                          | <a href="#">The invariant twist of magnetic fields in the relativistic jets of Active Galactic Nuclei</a>     | I. Contopoulos (C)  |
| 12:35-13:00                          | <a href="#">Gamma-ray emission from blazars and the role of the broad line region</a>                         | J. Poutanen (C)     |
| 13:00-15:30                          | <b>Lunch break</b>  |                     |
| 15:30-16:10                          | <a href="#">AGN Unification</a>   | A. Laor (I)         |
| 16:10-16:35                          | <a href="#">Broad-band spectral properties of absorbed BLAGN from the 2XMMi-SDSS DR6</a>                      | A. Streblyanska (C) |
| 16:35-17:00                          | <a href="#">The NLR of LINERs</a>   | I. Marquez (C)      |
| 17:00-17:30                          | <b>Coffee Break</b>   |                     |
| 17:30-18:10                          | <a href="#">AGN and Galaxy Growth: an X-Ray perspective</a>   | M. Page (I)         |
| 18:10-18:35                          | <a href="#">Quasar feedback revealed by giant molecular outflows</a>  | C. Feruglio (C)     |
| 18:35-19:00                          | <a href="#">The significance of feedback from radio jets in young 2MASS QSOs</a>                              | A. Georgakakis (C)  |
| Wednesday, 6 October 2010            |   |                     |
| Session: The AGN gaseous Environment |   |                     |
| 9:00- 9:40                           | <a href="#">X-Ray Warm-Absorbers and their Time-Evolution</a>   | Y. Krongold (I)     |
| 9:40-10:05                           | <a href="#">A deep look into the warm absorber of Mrk 509</a>   | J. Ebrero (C)       |
| 10:05-10:30                          | <a href="#">Results of a Deep, Contemporaneous Chandra HETG and Broad-band Suzaku observation of NGC 4051</a> | A. Lobban (C)       |
| 10:30-11:00                          | <b>Coffee Break</b>   |                     |

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|   |   |                    |
|---|---|--------------------|
| 11:00-11:40                                       | <a href="#">Highly Ionized Emitters in AGNs</a>   | S. Bianchi (I)     |
| 11:40-12:05                                       | <a href="#">Warm emitters in a multiwavelength context</a>  | M. Guainazzi (C)   |
| 12:05-12:45                                       | <a href="#">AGN Metallicity</a>   | S. Mathur (I)      |
| 12:45-13:10                                       | <a href="#">The physics of warm absorbers in AGN through stability properties</a>   | S. Chakravorty (C) |
| 13:10-15:30                                       | <b>Lunch break</b>  |                    |
| 15:30-16:10                                       | <a href="#">FUV NALs, BALs and their Kinematics</a>   | D. Crenshaw (I)    |
| 16:10-16:35                                       | <a href="#">Probing High-column Outflows in BALSOs Using Metastable Helium</a>  | K. Leighly (C)     |
| 16:35-17:00                                       | <a href="#">Feeding and Feedback in the Narrow-Line Regions of Seyfert G</a>  | T. Fischer (C)     |
| 17:00-17:30                                       | <b>Coffee Break</b>   |                    |
| 17:30-18:10                                       | <a href="#">High-Velocity, high-ionization Outflows</a>   | J. Reeves (I)      |
| 18:10-18:35                                       | <a href="#">A Multi-wavelength Outflow Study of Nearby Seyfert 1s</a>   | L. Winter (C)      |
| 18:35-19:00                                       | <a href="#">An X-ray view of UV-driven AGN winds</a>  | M. Giustini (C)    |
| <b>Thursday, 7 October 2010</b>                   |   |                    |
| <b>Session: X-ray Spectral Signatures of AGNs</b> |   |                    |
| 9:00-09:40  | <a href="#">Complex X-Ray Absorption in AGNs</a>  | J. Turner (I)      |
| 09:40-10:05                                       | <a href="#">A test for obscuring gas clouds in the Seyfert 1 Galaxy H0557-385</a>   | A. Longinotti (C)  |
| 10:05-10:30                                       | <a href="#">On the Interpretation of Seemingly Broad Emission Iron Lines Observed in the X-ray Energy Spectra of Seyfert I Galaxies</a> | K. Ebisawa (C)     |
| 10:30-11:00                                       | <b>Coffee Break</b>   |                    |
| 11:00-11:40                                       | <a href="#">Fe-K X-ray Emission in AGNs</a>   | G. Miniutti (I)    |
| 11:40-12:05                                       | <a href="#">The inner regions of AGN: the recognition of X-ray reverberation</a>  | L. Miller (C)      |
| 12:05-12:30                                       | <a href="#">Inner Disk Reflection and Absorption in AGN</a>   | L. Brenneman (C)   |
| 12:30-12:55                                       | <a href="#">Role of the emission directionality in the BH spin determination with a broad iron line</a>                                 | J. Svoboda (C)     |
| 12:55-16:00                                       | <b>Lunch break</b>  |                    |
| 16:00-16:30                                       | <a href="#">10-years of XMM, into a future-mission perspective</a>  | N. Schartel (S)    |
| 16:30-17:00                                       | Where do we go from Here: the Future of X-Ray Astronomy as seen from Europe   | M. Watson (S)      |
| 17:00-17:30                                       | Where do we go from Here: the Future of X-Ray Astronomy as seen from the US   | R. Mushotzky (S)   |
| 17:30-18:00                                       | <b>Coffee Break</b>   |                    |
| 18:00-19:00                                       | <b>Discussion</b>   | M. Elvis (Chair)   |
| 20:00   | <b>Social Dinner</b>  |                    |

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| Friday, 8 October 2010              |  |                        |
|-------------------------------------|--|------------------------|
| Session: The High-Energy AGN Census |  |                        |
| 9:30-10:10                          | <a href="#">AGN Census in X-rays</a>   | A. Comastri (I)        |
| 10:10-10:35                         | <a href="#">The XMM-BSS QSO2 sample: X-ray and accretion properties</a>  | L. Ballo (C)           |
| 10:35-11:00                         | <a href="#">X-ray observations of High-tau 9.7micron Spitzer sources: a high fraction of Compton-thick sources</a> | I. Georgantopoulos (C) |
| 11:00-11:30                         | <b>Coffee Break</b>  |                        |
| 11:30-12:10                         | <a href="#">AGN Census in Hard X-ray</a>   | R. Mushotzky (I)       |
| 12:10-12:35                         | <a href="#">Probing the accretion history of local AGN with clustering in the SWIFT-BAT survey</a>                 | N. Cappelluti (C)      |
| 12:35-13:00                         | <a href="#">Mid-infrared Properties of the Swift Burst Alert Telescope Active Galactic Nuclei</a>                  | M. Melendez (C)        |
|                                     | <a href="#">Sample of the Local Universe. I. Emission-line Diagnostics</a>   |                        |
| 13:00-15:30                         | <b>Lunch break</b>   |                        |
| 15:30-16:10                         | <a href="#">Quasar Growth and Death</a>  | M. Elvis (I)           |
| 16:10-16:35                         | <a href="#">Black hole growth at high redshift</a>   | F. Fiore (C)           |
| 16:35-17:00                         | <a href="#">The highest redshift X-ray selected AGN</a>  | M. Brusa (C)           |
| 17:00-17:30                         | <b>Coffee Break</b>  |                        |
| 17:30-18:10                         | <a href="#">X-Ray Variability and Continuum Emission of AGN</a>  | I. McHardy (I)         |
| 18:10-18:35                         | <a href="#">X-Ray variability of High-z AGNs: results from deep surveys</a>  | M. Paolillo (C)        |
| 18:35-19:00                         | <a href="#">Hard X-ray monitoring of Seyfert 1 galaxies as diagnostics of AGN geometry</a>                         | S. Paltani (C)         |

## Posters

|      |                    |  |
|------|--------------------|--|
| (1)  | G. Younes          | <a href="#"><u>LINER-Seyfert connections. The case of NGC 4278</u></a>   |
| (2)  | M. Cardaci         | <a href="#"><u>An XMM-Newton view of a small sample of Seyfert 1 galaxies</u></a>  |
| (3)  | H. Marshall        | <a href="#"><u>High Resolution Spectroscopy of AGN Outflows</u></a>  |
| (4)  | J. Gofford         | <a href="#"><u>The Suzaku &amp; Swift/BAT view of MR2251-178</u></a>   |
| (5)  | V. Braito          | <a href="#"><u>The Circumnuclear Matter in the Broad Line Radio Galaxy 3C445</u></a>   |
| (6)  | A. Patrick         | <a href="#"><u>Iron Line Profiles in Suzaku Spectra of Bare Seyfert Galaxies</u></a>   |
| (7)  | H. Noda            | <a href="#"><u>Suzaku Discovery of a Hard Component Varying Independently of the Power-Law Emission</u></a>                  |
| (8)  | I. De la Calle     | <a href="#"><u>Statistics of relativistic Iron line in AGN: what is the driver (if any)?</u></a>                             |
| (9)  | M. Dovciak         | <a href="#"><u>Relativistic iron line in lamp-post scheme of the illuminate</u></a>  |
| (10) | L. Koutoulidis     | <a href="#"><u>Clustering of Supermassive Black Holes in the X-ray Fields CDF-N, CDF-S and AEGIS</u></a>                     |
| (11) | E. Lusso           | <a href="#"><u>Obscured AGN and their host galaxy: a multi-wavelength approach</u></a>                                       |
| (12) | O. Gonzalez-Martin | <a href="#"><u>Suzaku observation of the LINER NGC4102</u></a>   |
| (13) | E.M. Huerta        | <a href="#"><u>A deep analysis of the high resolution X-ray spectra of NGC 3516: Variability of the ionized absorber</u></a> |

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## X-ray Binaries session:

| Monday, 11 October 2010    |   |                   |
|----------------------------|---|-------------------|
| Session: Binaries overview |   |                   |
| 9:30-10:10                 | <a href="#">AGN-stellar BH unification</a>  | I. McHardy (I)    |
| 10:10-10:35                | <a href="#">Red Noise Everywhere</a>  | G. Belanger (C)   |
| 10:35-11:00                | <a href="#">Stellar black holes at the dawn of the universe</a>   | F. Mirabel (C)    |
| 11:00-11:30                | <b>Coffee Break</b>   |                   |
| 11:30-12:10                | <a href="#">The diversity of High Mass X-ray binaries</a>   | I. Negueruela (I) |
| 12:10-12:35                | <a href="#">On the nature of the X-ray corona of BH binaries in the hard state</a>  | J. Malzac (C)     |
| 12:35-13:00                | <a href="#">X-ray spectral index correlations vs mass accretion rate in NS and BH X-ray binaries in their different spectral states. Theory vs. observation</a> | L. Titarchuk (C)  |
| 13:00-15:30                | <b>Lunch Break</b>  |                   |
| 15:30-16:10                | <a href="#">Broad Band Spectra of Low Mass X-ray Binaries</a>   | T. di Salvo (I)   |
| 16:10-16:35                | <a href="#">Hitting the JACPot: Testing Accretion Disk - Radio Jet Coupling Over Entire Outbursts</a>   | G. Sivakoff (C)   |
| 16:35-17:00                |   | M. Diaz-Trigo (C) |
| 17:00-17:30                | <a href="#">The XMM-Newton monitoring of the NS EXO 0748-676 back to quiescence</a>   |                   |
|                            | <b>Coffee Break</b>   |                   |
| 17:30-18:10                | <a href="#">XRB populations in galaxies</a>   | G. Fabbiano (I)   |
| 18:10-18:35                | <a href="#">A Chandra Perspective on the Evolution of XRB Populations in Normal Galaxies</a>  | B. Lehmer (C)     |
| 18:35-19:00                | <a href="#">Optical nebula, radio lobes and X-ray hot spots of an FR II microquasar</a>   | R. Soria (C)      |
| Tuesday, 12 October 2010   |   |                   |
| Session: BHB               |   |                   |
| 9:15-09:55                 | <a href="#">Dynamical Masses in BH X-Ray Binaries</a>   | J. Casares (I)    |
| 9:55-10:35                 | <a href="#">Measuring the Spin Parameters of Stellar-Mass BH</a>  | R. Narayan (I)    |
| 10:35-11:00                | <a href="#">Constraining propagation mechanisms in BH X-ray binaries</a>  | P. Cassatella (C) |
| 11:00-11:30                | <b>Coffee Break</b>   |                   |

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|                                    |   |                       |
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| 11:30-12:10                        | <a href="#">Accretion Disks</a>   | C. Done (I)           |
| 12:10-12:35                        | <a href="#">Geometrical Configuration of Accretion Flows in Cyg X-1 in the LHS with Suzaku</a>  | T. Shunsuke (C)       |
| 12:35-13:00                        | <a href="#">The nature of the very high state of GX 339-4</a>   | M. Kolehmainen (C)    |
| 13:00-15:30                        | <b>Lunch Break</b>  |                       |
| 15:30-16:10                        | <a href="#">States and state transitions in X-ray binaries</a>  | T. Belloni (I)        |
| 16:10-16:35                        | <a href="#">Using flux variability to study states and state transitions in black holes</a>   | T. Muñoz-Darías (C)   |
| 16:35-17:00                        | <a href="#">The nature of the low-frequency oscillations in BH binaries</a>   | S. Motta (C)          |
| 17:00-17:30                        | <b>Coffee Break</b>   |                       |
| 17:30-18:10                        | <a href="#">Jets in accreting objects: BH and neutron star binaries</a>   | E. Koording (I)       |
| 18:10-18:35                        | <a href="#">Isolating the jet in broadband spectra of XBs</a>   | D. Russell (C)        |
| 18:35-19:00                        | <a href="#">Beyond X-ray timing: fast multi-wavelength variability from jets in XRB</a>   | P. Casella (C)        |
| <b>Wednesday, 13 October 2010</b>  |   |                       |
| <b>Session: LMXB</b>               |   |                       |
| 9:30-10:10                         | <a href="#">Timing properties of neutron star X-ray binaries</a>  | M. van der Klis (I)   |
| 10:10-10:35                        | <a href="#">On the nature of Z-sources: neutron star magnetic field, accretion disk struct, and evol.</a>                                     | S. Zhang (C)          |
| 10:35-11:00                        | <a href="#">KHz QPO and broad iron emission lines as a probe of strong-field gravity</a>  | A. Sanna (C)          |
| 11:00-11:30                        | <b>Coffee Break</b>   |                       |
| 11:30-12:10                        | <a href="#">Accreting millisecond pulsars, ideal test-beds for the theories of accretion onto quickly rotating, magnetised, neutron stars</a> | A. Papitto (I)        |
| 12:10-12:35                        | <a href="#">The reflection component in the NS X-ray binaries: analogies and differences with the BH systems class</a>                        | A. D'Ai (C)           |
| 12:35-13:00                        | <a href="#">The moving hotspot model for kHz QPOs in accreting neutron stars</a>  | M. Bachetti (C)       |
| 13:00-15:30                        | <b>Lunch break</b>  |                       |
| <b>Session: HMXB &amp; Pulsars</b> |   |                       |
| 15:30-16:10                        | <a href="#">X-ray Properties of High Mass X-ray Binaries</a>  | F. Haberl (I)         |
| 16:10-16:35                        | <a href="#">Abundances in the Accreted Gas in SS 433</a>  | H. Marshall (C)       |
| 16:35-17:00                        | <a href="#">Spin period evolution of GX 1+4</a>   | A. González-Galán (C) |
| 17:00-17:30                        | <b>Coffee Break</b>   |                       |

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| 17:30-18:10  | <a href="#">Gamma-ray emission in binary systems</a>  | J. M. Paredes (I) |
| 18:10-18:35  | <a href="#">New views on the X-ray emission of gamma-ray binaries</a>   | D. Torres (C)     |
| 18:35-19:00  | <a href="#">Anomalous X-ray pulsars and soft gamma ray repeaters - isolated neutron stars accreting from a fall-back disk</a> | J. Truemper (C)   |
| 20:00  | <b>Social Dinner</b>  |                   |
| <b>Thursday, 14 October 2010</b>                           |   |                   |
| <b>Session: Extragalactic population of X-ray binaries</b> |   |                   |
| 9:30-10:10   | <a href="#">Exploring accretion physics in the Small Magellanic Cloud</a>   | M.J. Coe (I)      |
| 10:10-10:35  | <a href="#">Young X-ray Binary Populations in Low Metallicity Star Forming Galaxies</a>                                       | V. Antoniou (C)   |
| 10:35-11:00  | <a href="#">X-ray source population of M 31 and M 33</a>  | W. Pietsch (C)    |
| 11:00-11:30  | <b>Coffee Break</b>   |                   |
| 11:30-12:10  | <a href="#">Low mass X-ray binaries in globular clusters</a>  | T. Maccarone (I)  |
| 12:10-12:35  | <a href="#">Probing the Low Mass X-ray Binaries/Globular Cluster connection</a>   | M. Paolillo (C)   |
| 12:35-13:00  | <a href="#">Revealing the Nature of a Very Luminous Globular Cluster X-ray Source in M31 Galaxy</a>                           | Y. Yang (C)       |
| 13:00-15:30  | <b>Lunch break</b>  |                   |
| 15:30-16:10  | <a href="#">Ultraluminous X-ray sources</a>   | T. Roberts (I)    |
| 16:10-16:35  | <a href="#">Low metallicity and UltraLuminous X-ray sources</a>   | L. Zampieri (C)   |
| 16:35-17:00  | <a href="#">Exploring the Nature of the Brightest Hyper-luminous X-ray Source</a>   | S. Farrell (C)    |
| 17:00-17:30  | <b>Coffee Break</b>   |                   |
| 17:30-18:10  | <a href="#">X-ray Binary Population Modeling</a>  | V. Kalogera (I)   |
| 18:10-18:35  | <a href="#">X-ray Binary Formation and Evolution on Cosmological Timescales</a>   | T. Fragos (C)     |
| 18:35-19:00  | <a href="#">Progenitors of Type Ia Supernovae in early-type galaxies</a>  | A. Bogdan (C)     |

## Posters

|      |                     |  |
|------|---------------------|--|
| (1)  | E. Bartlett         | <a href="#">The Search for Accreting High Mass X-ray Binaries in the Phoenix Dwarf Galaxy</a>        |
| (2)  | H. Bradt            | <a href="#">Teaching Astrophysics to Upper Level Students</a>  |
| (3)  | N. Brassington      | <a href="#">Determining Spectral Properties of X-ray Binaries With Low-Count Data</a>                |
| (4)  | M. Bursa            | <a href="#">Fitting high-luminosity X-ray thermal spectra with slim disk</a>                         |
| (5)  | M. Caballero-Garcia | <a href="#">Relativistic X-ray disk reflection in Ultra-Luminous X-ray sources</a>                   |
| (6)  | E. Egron            | <a href="#">XMM-Newton observation of MXB 1728-34</a>  |
| (7)  | D. Foster           | <a href="#">The nature of the ULX NGC 5408 X-1</a>   |
| (8)  | D. Hatzidimitriou   | <a href="#">The XRB population in M31 from the XMM-Newton Large Project - The search for HMXRB</a>   |
| (9)  | A. Hornschemeier    | <a href="#">Accreting binary populations in the earlier Universe</a>                                 |
| (10) | E. Nespoli          | <a href="#">Discovery of a QPO in the X-ray pulsar 1A 1118-615</a>                                   |
| (11) | V. Nilkanth         | <a href="#">Contribution of LMXBs to the total X-ray luminosity of the Dusty early-type galaxies</a> |
| (12) | A. Rajoelimanana    | <a href="#">Long-term Properties of High Mass X-ray Binaries in the Small Magellanic Cloud</a>       |
| (13) | J.M. Ramirez        | <a href="#">Chandra Pre-decay LETGS spectrum of V4743 Sagittarii</a>                                 |
| (14) | H. Stiele           | <a href="#">XTE J1752-223: A new transient black hole candidate</a>                                  |
| (15) | L. Townsend         | <a href="#">Accretion driven spin-up in Be/X-ray binary systems in the Small Magellanic Cloud</a>    |
| (16) | V. Simon            | <a href="#">Long-term processes in soft X-ray transients</a>   |
| (17) | P. Bonfina          | <a href="#">Globular Clusters and X-ray Source Population in NGC4261</a>                             |