

Ultra-Luminous X-ray sources and Middle Weight Black Holes Programme

Monday, 24 May 2010

Introduction	
09:00 – 09:30	Registration
Chair: Norbert Schartel	
09:30 – 09:40	<i>Schartel, Norbert</i>
09:40 – 10:10	<i>Mushotzky, Richard</i> : Introduction to the workshop
Observational characteristics	
10:20 – 10:50	<i>Belloni, Tomaso</i> : Black hole states in external galaxies
11:00 – 11:40	Coffee break
Chair: Didier Barret	
11:40 – 12:10	<i>Soria, Roberto</i> : ULX accretion states
12:20 – 12:40	<i>Gladstone, Jeanette</i> : Unlocking the nature of ULXs using their X-ray spectra
12:45 – 13:05	<i>Grise, Fabien</i> : Optical properties of the ultraluminous X-ray source Holmberg IX X-1
13:10 – 13:30	<i>Middleton, Matthew</i> : Challenging times: A re-analysis of NGC5408 X-1
13:35 – 15:00	Lunch break
Chair: Luca Zampieri	
15:00 – 15:20	<i>Mineo, Stefano</i> : X-ray emission from star-forming galaxies
15:25 – 15:45	<i>Motch, Christian</i> : The supergiant optical counterpart of ULX P13 in NGC 7793
15:50 – 16:10	<i>Pintore, Fabio</i> : Ten years of XMM-Newton observations of NGC 1313 X-2
16:15 – 16:55	Coffee break
Chair: Tim Roberts	
16:55 – 17:15	<i>Pizzolato, Fabio</i> : Chandra observations of the ULX N10 in the Cartwheel Galaxy
17:20 – 17:40	<i>Russell, David</i> : New observations of ULX supershells, and their implications
17:45 – 18:05	<i>Swartz, Douglas</i> : The demographics of ultraluminous X-ray sources

Tuesday, 25 May 2010

Theoretical models for formation and evolution of black holes

Chair: Maria Diaz Trigo

09:00 – 09:30 *Volonteri, Marta*: Models of BH formation – how to make a middle weight black hole

Observational characteristics (continued)

09:40 – 10:00 *Walton, Dominic*: A large catalogue of ultraluminous X-ray source candidates in nearby galaxies

10:05 – 10:25 *Volter, Anna*: ULXs in NGC2276

10:30 – 10:50 *Yoshida, Tessei*: A statistical study of long-term variabilities of ultraluminous X-ray sources

10:55 – 11:35 Coffee break

Evidence for intermediate mass black holes

Chair: Elmar Koerding

11:35 – 12:05 *Farrell, Sean*: Exploring the nature of the brightest hyperluminous X-ray source

12:15 – 12:45 *Strohmayer, Tod*: X-ray variability of ULXs and the mass of NGC 5408 X-1

12:55 – 13:25 *Greene, Jenny*: Low mass black holes in galaxy centers

13:35 – 15:00 Lunch break

Chair: Roberto Soria

15:00 – 15:20 *Feng, Hua*: ULXs and evidence for two IMBHs in M82

15:25 – 15:45 *Gonzalez-Martin, Omaira*: The scaling of X-ray variability with luminosity in ULX sources

15:50 – 16:30 Coffee break

Chair: Christian Motch

16:30 – 16:50 *Jonker, Peter*: A bright off-nuclear X-ray source: a recoiling SMBH?

16:55 – 17:15 *Trenti, Michele*: Fingerprints of Intermediate Mass Black Holes in Globular Clusters

Physics of accretion

17:20 – 17:50 *Mineshige, Shin*: Accretion and ULXs

21:00 Workshop dinner: Cafe de Oriente

Wednesday, 26 May 2010

Theoretical models for formation and evolution of black holes

Chair: Nora Loiseau

- 09:00 – 09:30 *Fryer, Chris*: The life and death of massive stars
- 09:40 – 10:10 *Gaburov, Evghenii*: Formation of IMBH via runaway collisions in young star clusters
- 10:20 – 10:40 *Mapelli, Michela*: Remnants of massive metal-poor stars: viable engines for ULXs
- 10:45 – 11:05 *Ripamonti, Emanuele*: Metallicity estimates in the surroundings of ULXs

11:10 – 11:50 Coffee break

Chair: Juri Poutanen

- 11:50 – 12:10 *Zampieri, Luca*: The black hole in NGC 1313 X-2

Hot topics

- 12:15 – 12:45 *Pakull, Manfred*: Multiwavelength studies of ULXs: clusters, bubbles and optical counterpart

- 12:55 – 13:25 *Gilfanov, Marat*: X-ray populations in galaxies

13:35 – 15:00 Lunch break

Chair: Matthias Ehle

- 15:00 – 15:20 *Roberts, Timothy*: Dynamical constraints on the mass of the black hole in a ULX

- 15:25 – 15:45 *Mezcua, Mar*: Radio detections of off-nuclear ULX sources

Concluding remarks

- 15:50 – 16:10 *Mushotzky, Richard*

16:10 – 16:30 Coffee break

- 16:30 Workshop ends