

X-ray astronomy: towards the next 50 years!

Scientific Program

Monday October 1

X-RAY SOURCES IN THE GALAXY

Chairperson: L. Maraschi

09 00 -- 09 35	Welcome addresses	
	REES	Few words about X-ray Astronomy: Past and Future
09 35 -- 10 00	SCHMITT	X-ray astronomy of stars
10 10 -- 10 35	YAMAGUCHI	Element abundances in Supernova Remnants

10 45 -- 11 15 COFFEE

Chairperson: P. Caraveo

11 15 -- 11 25	Weisskopf	Monitoring of the Crab Nebula with Chandra and HST
11 30 -- 11 55	REA	Neutron Stars with huge magnetic Storms
12 05 -- 12 15	Nakagawa	Wide-Band Spectra of Magnetar Burst and Persistent Emission
12 20 -- 12 30	Nakano	Solving Age Discrepancy between Magnetars and Associated Supernova Remnants
12 35 -- 12 45	Israel	The multi-wavelength monitoring of magnetar outbursts
12 50 -- 13 00	Marelli	X-ray properties of the Fermi/LAT Pulsars

13 05 -- 14 30 LUNCH

Chairperson: G. Trinchieri

14 30 -- 14 55	FENDER	Galactic Black Holes
15 05 -- 15 15	Eckart	The broad band properties of X-ray flares from Sagittarius A*
15 20 -- 15 45	GLADSTONE	Ultra Luminous X-ray sources (ULX)
15 55 -- 16 05	Farrell	Bridging the Gap Between Stellar Mass and Supermassive Black Holes

16 10 -- 16 40 COFFEE

Chairperson: H. Inoue

16 40 -- 16 50	Middleton	X-ray/radio coupling revealing the presence of a stellar-mass black hole in a ULX
16 55 -- 17 05	Roberts	ULXs and accretion physics around the Eddington limit
17 10 -- 17 20	Mapelli	X-ray binaries powered by massive stellar black holes
17 25 -- 17 35	Haberl	The XMM-Newton survey of the Small Magellanic Clouds - results and future prospects
17 40 -- 17 50	Costantini	Characterizing the chemistry of interstellar dust: the X-ray view

Tuesday October 2

ACTIVE GALACTIC NUCLEI AND THE X-RAY BACKGROUND

Chairperson: L. Stella

- 09 00 -- 09 25 MAKISHIMA From Sco X-1 to Magnetars - past, present, and future of X-ray studies of neutron stars
- 09 35 -- 10 00 REEVES Iron Lines and Outflows From Active Galactic Nuclei
- 10 10 -- 10 20 Cappi Ultra Fast Outflows (aka UFOs) from AGNs to QSOs

10 30 -- 11 00 COFFEE

Chairperson: K. Ebisawa

- 11 00 -- 11 10 Noda Model-Independent Decomposition of Broad-Band Suzaku Spectra of AGNs into Primary Continua and Secondary Components
- 11 15 -- 11 25 Zoghbi Decoding black hole echoes
- 11 30 -- 11 40 De Marco Soft X-ray lags and the correlation with black hole mass in radio quiet AGN
- 11 45 -- 11 55 Ishibashi The physical origin of the X-ray variability scaling in accreting black holes
- 12 00 -- 12 10 Lohfink Tackling the soft X-ray excess in AGN with variability studies
- 12 15 -- 12 40 HARRISON Nu star First preliminary results

13 00 -- 14 30 LUNCH

Chairperson: R. Della Ceca

- 14 30 -- 14 55 GILLI The cosmic X-ray background: abundance and evolution of hidden black holes
- 15 05 -- 15 15 Comastri Deep X-ray spectroscopy of obscured AGN in the ultra-deep XMM surveys of the Chandra Deep Field South (CDFS)
- 15 20 -- 15 30 Page X-ray and submillimetre observations of star-forming QSOs in the epoch of galaxy formation
- 15 35 -- 15 45 Merloni Accreting supermassive black holes in the COSMOS field and the connection to their host galaxies

15 50 -- 16 20 COFFEE

Chairperson: A. Fabian

- 16 20 -- 16 45 TREISTER The Cosmic History of Black Hole Growth
- 16 55 -- 17 20 BRENNEMAN NUSTAR's view of AGN
- 17 30 -- 17 40 Georgantopoulos X-ray background synthesis models in the era of Nustar
- 17 45 -- 17 55 Del Moro New insights on the distant AGN population

Wednesday October 3

FEEDBACK -- RELATIVISTIC JETS -- GRB

Chairperson: A. Merloni

09 00 -- 09 25	FABIAN	Feedback
09 35 -- 09 45	Yu Wang	Central gas entropy excess as a direct evidence for AGN feedback in galaxy groups and clusters.
09 50 -- 10 00	Mitsuishi	X-ray Properties of the Starburst-Driven Outflow in NGC 253
10 05 -- 10 15	Ranalli	X-ray gaseous emission in star forming galaxies

10 20 -- 10 50 COFFEE

Chairperson: S. Mereghetti

10 50 -- 11 15	GHISELLINI	High redshift blazars
11 25 -- 11 50	TCHAKHOVSKOY	GRMHD simulations of relativistic jets in AGN
12 00 -- 12 25	PIRAN	Gamma Ray Bursts
12 35 -- 13 00	TAKAHASHI	ASTRO - H

13 10 -- 14 40 LUNCH

Chairperson: G. Setti

14 40 -- 18 40	HISTORIC SESSION with contributions from:	
14 40 -- 15 10	<i>Riccardo Giacconi</i>	A Start in X-ray Astronomy
15 15 -- 15 45	<i>Yasuo Tanaka</i>	My early days in X-ray Astronomy
15 50 -- 16 20	<i>Joachim Trümper</i>	The history of X-ray Astronomy in Germany

16 25 -- 16 55 COFFEE

Chairperson: G. Setti

16 55 -- 17 25	<i>Mike Watson</i>	The Development of X-ray Astronomy in the UK
17 30 -- 18 00	<i>Johan Bleeker</i>	From zone plates to microcalorimeters: 50 years of cosmic X-ray spectroscopy at SRON
18 05 -- 18 35	<i>Luigi Piro</i>	BeppoSAX : History and Legacy

20 00 CONFERENCE DINNER

Thursday October 4

CLUSTERS OF GALAXIES

Chairperson: I. Gioia

09 00 -- 09 25	ROSATI	Future X-ray surveys of clusters and multi-wavelength synergies
09 35 -- 10 00	MARKEVITCH	Shocks and cold fronts in galaxy clusters
10 10 -- 10 20	Gastaldello	X-ray Groups from the Core to the Outskirts with Chandra XMM and Suzaku

10 30 -- 11 00 COFFEE

Chairperson: A. Cavaliere

11 00 -- 11 25	POINTECOUTEAU	The Sunyaev-Zeldovich effect
11 35 -- 12 00	BÖHRINGER	Cosmology with Clusters of Galaxies
12 10 -- 12 20	Tozzi	A scientific case for future X-ray astronomy: high-z galaxy clusters
12 25 -- 12 55	PREDEHL	The eROSITA Mission

13 00 -- 14 30 LUNCH

Chairperson: J. Trümper

14 30 -- 16 00 FUTURE MISSIONS

14 30 -- 14 50	<i>Gorenstein</i>	High Angular Resolution X-ray Astronomy In the Next 50 years
15 00 -- 15 20	<i>Pavlinsky</i>	ART-XC/SRG
15 30 -- 15 50	<i>Stella</i>	LOFT
16 00 -- on		POSTER SESSION and COCKTAIL (more information will follow)

Friday October 5

FUTURE MISSIONS

Chairperson: G. Pareschi

09 00 -- 09 20 *Murray* WFXT

09 30 -- 09 50 *Nandra* ATHENA

10 00 -- 10 20 *Vikhlinin* SMART-X: square meter, arcsecond resolution X-ray telescope for the
2020's

10 30 -- 10 50 *Petre* AXSIO

11 00 -- 11 30 COFFEE

Chairperson: M. Urry

11 30 -- 13 00 **Open discussion: The future of X-ray astronomy**