

Exploring the Hot Universe with IXO

Science Meeting at MPE Garching
September 17(09:00) -19(12:00), 2008

Wednesday September 17, 2008

08.00-09.00: Registration

Morning Session (09.00-13.00)

The IXO Observatory

Chair: G. Hasinger

09.00-09.10	Introductions	(K. Nandra/Th. Boller)
09.10-09.40	The IXO Observatory	(A. Parmar)
09.40-09.55	NASA IXO status report	(N. White)
09.55-10.10	JAXA IXO status report	(T. Dotani)
10.10-10.30	Report from NASA MDL study	(J. Bookbinder)
10.30-10.45	Slumped glass optics development	(R. Petre)
10.45-11.00	Silicon Pore Optics	(M. Bavdaz)

11.00-11.30 Tea/Coffee

IXO Instruments

Chair: J. Bookbinder

11.30-11.45	Wide Field Imager	(J. Treis)
11.45-12.00	Calorimeter	(P. de Korte)
12.00-12.15	X-ray Grating Spectrometer	(K. Flanagan)
12.15-12.30	Hard X-ray Imager and Telescope	(T. Dotani)
12.30-12.45	X-ray Polarimeter	(E. Costa)
12.45-13.00	High Time Resolution Spectrometer	(D. Barret)

13.00-14.00 Lunch

Afternoon Session (14.00-18.00)

Black Holes and Matter Under Extreme Conditions

Chair: Y. Ueda

14.00-14.30	Primordial Black Holes with IXO	(R. Gilli)
14.30-15.00	Obscured AGN and galaxy evolution	(F. Fiore)
15.00-15.15	Lifting the Veil of Distant Compton-thick AGNs	(D. Alexander)
15.15-15.30	Obscured AGN, near and far	(T. Yaqoob)

15.30-16.00 Coffee Break

Chair: M. Cappi

16.00-16.30	Fast timing and strong gravity in AGN	(S. Vaughan)
16.30-17.00	QPOs and Strong gravity in Galactic sources	(M. Mendez)
17.00-17.30	Extreme States of Matter: the Neutron Star EoS	(F. Paerels)
17.30-17.45	AGN as scaled up black holes	(C. Done)
17.45-18.00	Pushing IXO to the extreme	(P. Uttley)

Thursday September 18, 2008

Morning Session (09.00-13.00)

Galaxy Formation, Galaxy Clusters and Cosmic Feedback

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Chair: M. Arnaud

09.00-09.30	Galaxy Clusters as Cosmological Probes	(H. Boehringer)
09.30-10.00	Metal abundances in the ICM	(K. Matsushita)
10.00-10.30	Cosmic Feedback and Galaxy Formation	(A. Fabian)
10.30-10.45	Velocity diagnostics in distant galaxy clusters with IXO	(N. Ota)
10.45-11.00	The Chemical evolution of clusters of galaxies	(J. Kaastra)

11.00-11.30 Coffee

Chair: R. Mushotzky

11.30-11:45	Evolution of the dark matter distribution on galaxy cluster scales	(G. Pratt)
11:45-12:15	WHIM studies with IXO	(T. Ohashi)
12.15-12.30	UV/X-ray synergies for the WHIM	(F. Nicastro)
12.30-12.45	IXO and missing baryons	(A. Finuguenov)
12.45-13:00	Strong lensing of background WHIM emissions	(R. Lieu)

13.00-14.00 Lunch

Afternoon Session (14.00-18.00)

Life Cycles of Matter and Energy

Chair: M. Garcia

14.00-14.30	X-ray emission from normal stars and YSOs	(B. Stelzer)
14.30-15.00	IXO Observations of SNRs	(A. Bamba)
15.00-15.15	Cool star studies with IXO	(M. Audard)
15.15-15.30	Using IXO to Probe the Nature of Pulsar Winds	(P. Slane)
15.30-15.45	IXO observations of highly ionised absorbers in LMXBs	(M. Diaz-Trigo)

15.45-16.15 Coffee

Chair: M. Watson

16.15-16.35	Normal galaxies at high redshift with IXO	(A. Hornschemeier)
16.35-16.50	Star forming galaxies: the IXO perspective	(P. Ranalli)
16.50-17.05	The physics of extragalactic X-ray jets with the IXO	(D. Worrall)
17.05-17.20	X-ray activity from Sgr A*	(D. Porquet)
17.20-17.40	IXO Background calculations	(R. Smith)
17.40-18.00	Polarimetry Science with IXO	(G. Matt)

18:00

Beer and Brezen Party at MPE

Friday September 19, 2008

Morning Session (09.00-12.00)

Discussion: The way forward

Chair: K. Nandra

09.00-09.30	Synergy of IXO with future multiwavelength facilities	(R. Mushotzky)
09.30-10.00	Discussion: Future of the XEUS/Con-X working groups	
10.00-11.30	Discussion: Cosmic Vision, Decadal survey and JAXA programmatic. Timetable and the way forward.	
11.30	Summary talk	(G. Hasinger)
12.00	Conference ends	