

# Simbol-X symposium - Paris 2008

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## Tuesday December 2

### MISSION

14:00	14:25	Welcome and introduction to the symposium (University Paris-Diderot, CNES and ASI)	G. Cousineau F. Casoli E. Flamini
14:25	14:45	The Simbol-X mission	P. Ferrando
14:45	15:05	Simbol-X core science	F. Fiore
15:05	15:25	SX optics design versus scientific and technical requirements	G. Pareschi
15:25	15:45	Detector Payload	P. Laurent
15:45	16:05	Simbol-X : mission profile and formation flight challenges	R. Clédassou

### CATALOGS & SURVEYS

16:05	16:35	Highlight : The Hard X-ray sky : recent observational progress	N. Gehrels
16:35	16:55	Coffee Break & Posters	
16:55	17:10	The Palermo Swift-BAT Hard X-ray catalogue: Results after 39 months of sky survey	G. Cusumano
17:10	17:25	Extragalactic hard X-ray surveys: From INTEGRAL to Simbol-X	S. Paltani
17:25	17:40	The extragalactic hard X-ray sky as painted by INTEGRAL	A. De Rosa
17:40	18:10	Invited : Synergies between the Simbol-X and Herschel/ALMA	R. Maiolino

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## Wednesday December 3

### Simbol-X INSTRUMENT (I)

09:00	09:15	The Simbol-X Low Energy Detector	P. Lechner
09:15	09:30	The High Energy Detector of SX	A. Meuris
09:30	09:45	The SX mirror development...	G. Tagliaferri
09:45	10:15	Coffee Break & Posters	

### ACCRETION AND JETs (I): AGNs

10:15	10:45	Invited : Blazars in hard X-rays	G. Ghisellini
10:45	11:00	Study of the variability of the reflection component in Seyfert 1 galaxies : connecting the Fe K variability with the Compton hump	G. Ponti
11:00	11:15	Compton reflection in AGN with Simbol-X	V. Beckmann
11:30	11:45	Cloudy skies over AGN: observations with SX	M. Salvati
11:15	11:30	A Multiwavelength Campaign on SGR A*	G. Trap
11:45	12:15	Invited : Observational evidence for efficient particle acceleration by supernova remnants	J. Vink
12:15	13:45	Lunch Break & Posters	

### ACCRETION AND JETs (II): Binaries

13:45	14:15	Invited : Relativistic Jets from X-ray binaries and AGN's	S. Corbel
14:15	14:30	Is the ejection of the corona a common phenomenon in microquasars?	L. Prat
14:30	14:45	About a unified view of the accretion-ejection mechanisms in microquasars and how it can be tested with Simbol-X	P.-O. Petrucci
14:45	15:00	The importance of Simbol-X for our understanding of ULXs	M. Pakull
15:00	15:30	Highlight : Highlights from Agile	M. Tavani
15:30	16:00	Coffee Break & Posters	
16:00	16:30	Invited : Hard X-rays from accreting Black Holes	A. Fabian
16:30	16:45	Black-Hole Binaries : Life Begins at 40 keV	T. Belloni
16:45	17:00	Spectral states of black hole binaries	J. Malzac
17:00	17:15	Observing cataclysmic variables in the Simbol-X energy band	M. Falanga
17:15	17:30	Identification of X-ray sources in Galactic globular clusters: Simbol-X simulations	M. Servillat
17:30	17:45	Restablished accretion in post-outburst classical novae revealed by X-rays	M. Hernanz
17:45	18:15	Highlight : Fermi Gamma-ray Space Telescope : results from the first 4 months	P. Michelson

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## Thursday December 4

### CXB, OBSCURED ACCRETION

09:00	09:30	Invited : The role of obscured AGN activity in the Universe	K. Nandra
09:30	09:45	Cosmological Evolution of AGNs: Predictions from Hierarchical Models of Galaxy Formation	N. Menci
09:45	10:00	The SX view of Compton thick AGN	R. Della Ceca
10:00	10:15	A new measurement of the Cosmic X-ray Background spectrum	A. Moretti
10:15	10:45	Coffee Break & Posters	
10:45	11:00	The infrared/sub-millimeter view of luminous X-ray selected Type 2 quasars	C. Vignali
11:00	11:15	Revealing X-ray obscured quasars in Spitzer sources with extreme mid-IR to optical flux ratios	E. Piconcelli
11:15	11:30	[HB89] 0102-272: a quasar with an extremely steep soft photon index ?	T. Boller

### ACCELERATION

11:30	12:00	Highlight : Perspectives on ground based Cerenkov Telescopes	H. Sol
12:00	12:15	The emerging population of Pulsar Wind Nebulae in Hard X-Rays	F. Mattana
12:15	12:30	What can Simbol-X do for gamma-ray binaries?	B. Cerutti
12:30	14:00	Lunch break & Posters	
14:00	14:15	X-ray studies of unidentified Galactic TeV gamma-ray sources	G. Pülhofer
14:15	14:30	Latest X-ray observations of the gamma-ray loud binaries	M. Chernyakova
14:30	14:45	Studying rotation-powered pulsars with Simbol-X	W. Becker

### CLUSTERS OF GALAXIES

14:45	15:15	Invited : Non thermal emission of clusters of galaxies: the importance of a joint LOFAR/Simbol-X view	C. Ferrari
15:15	15:45	Coffee Break & Posters	
15:45	16:00	Future prospects for the detection and characterization of non-thermal emission in galaxy clusters	S. Molendi
16:00	16:15	Hard X-ray tails in galaxy groups and poor clusters: prospects for Simbol-X	G. Pratt

### Simbol-X INSTRUMENT (II)

16:15	16:30	Simulation of the SX telescope	M. Chauvin
16:30	16:45	Calibration of SX optics at the Panter X-ray test facility : facility upgrade for long focal lengths	M. Freyberg
		Free visit of the Orsay Museum	
20:00	23:00	Symposium dinner at the Orsay Museum	

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## Friday December 5

### NEUTRON STARS AND ACCRETING PULSARS

09:00	09:30	Invited : Cyclotron lines in Accreting Neutron Star Spectra	J. Wilms
09:30	09:45	Simbol-X view of accreting pulsars	D. Klochkov
09:45	10:00	The accretion powered spin-up of GRO J1750-27	P. Kretschmar
10:00	10:15	The Simbol-X view of LMXRB with Neutron Stars	A. Santangelo
10:15	10:30	Prospects for Simbol-X observations of bursts from Soft-Gamma-ray Repeaters	S. Mereghetti
10:30	11:00	Coffee Break	

### OBSERVATORY SCIENCE

11:00	11:30	Invited : Young stellar objects from soft to hard X-rays	M. Guedel
11:30	11:45	Non-thermal processes in colliding-wind massive binaries: the contribution of Simbol-X to a multiwavelength investigation	M. de Becker
11:45	12:00	Hard X-ray Flux from Low-Mass Stars in the Cygnus OB2 Association	M. Caramazza
12:00	12:15	Five years of hard X-ray monitoring of the Sgr B2 molecular cloud	R. Terrier
12:15	12:30	$^{44}\text{Ti}$ nucleosynthesis lines & hard X-ray continuum in young Galactic SNRs: From INTEGRAL/IBIS to Simbol-X	M. Renaud
12:30	12:45	Concluding remarks	
12:45	14:15	Final lunch and end of conference	