

LOFT Science Meeting**Science Park, Amsterdam (26-28 October 2011)****DETAILED PROGRAM**

POSTERS

All talks are 20 minutes (including questions). **Invited talks are marked in red.**

Wednesday October 26		
08:30 - 09:30	REGISTRATION AND COFFEE	
09:30 - 09:40	WELCOME ADDRESS - Michiel van der Klis	
09:40 - 11:00	INTRODUCTION TO LOFT - Chair: Søren Brandt	
	Science overview - Luigi Stella (INAF-OA Roma)	Abstract
	Mission overview - Marco Feroci (INAF-IASF Roma/INFN Tor Vergata)	Abstract
	The Large Area Detector - Silvia Zane (MSSL/UCL)	Abstract
	The Wide Field Monitor - Margarita Hernanz (IEEC-CSIC Barcelona)	Abstract
11:00 - 11:30	COFFEE	
11:30 - 13:00	STRONG GRAVITY I - Chair: Juhani Huovelin	
	LOFT and strong gravity - Didier Barret (IRAP)	Abstract
	Fe line diagnostics of strong gravity - Andy Fabian (Cambridge)	Abstract
	Testing GR with compact objects and using GR to measure their properties - Dimitrios Psaltis (U. Arizona)	Abstract
	Reverberation mapping - Phil Uttley (Amsterdam)	Abstract
13:00 - 14:00	LUNCH	
14:00 - 15:30	DENSE MATTER I - Chair: Peter Jonker	
	LOFT and dense matter - Anna Watts (Amsterdam)	Abstract
	Recent progress in dense matter theory and its implications for neutron stars - Sanjay Reddy (U. Washington)	Abstract
	Neutron star spin measurements and dense matter with LOFT - Tod Strohmayer (NASA GSFC)	Abstract
	Magnetar seismology - Gianluca Israel (INAF-OA Roma)	Abstract
15:30 - 16:00	COFFEE	
16:00 - 18:00	LOFT, ESA, AND OTHER OBSERVATORIES - Chair: Jan-Willem den Herder	
	LOFT mission status at ESA - Dave Lumb (ESA)	Abstract
	Athena and LOFT - Kirpal Nandra (MPE)	Abstract
	Gravitational wave observatories and LOFT - Ilya Mandel (Birmingham)	Abstract
	All-sky synergies of LOFT with LOFAR - Ralph Wijers (Amsterdam)	Abstract
	Millisecond pulsar studies with the Fermi LAT: Connections to LOFT - Paul Ray (NRL)	Abstract
	Connecting X-ray and VHE Gamma-ray timing - Stefan Wagner (LSW Heidelberg)	Abstract
18:00 - 20:00	BORREL*	
Thursday October 27		

09:00 - 11:00	OBSERVATORY SCIENCE I - Chair: Nanda Rea	
	LOFT Observatory Science - Jörn Wilms (Erlangen-Nuremberg)	Abstract
	X-ray Binaries - Marat Gilfanov (MPA Garching)	Abstract
	Active Galactic Nuclei - Ian McHardy (Southampton)	Abstract
	GRBs and tidal disruption events - Elena Rossi (Leiden)	Abstract
	Be/X-ray pulsar binary science with LOFT - Colleen Wilson-Hodge (NASA MSFC)	Abstract
	Timing and spectral signatures of a high magnetic field in HMXBs - Carlo Ferrigno (ISDC)	Abstract
11:00 - 11:30	COFFEE	
11:30 - 13:00	DENSE MATTER II - Chair: Andrea Santangelo	
	Neutron star equation of state constraints from X-ray pulse profile models - Sharon Morsink (U. Alberta)	Abstract
	Understanding the spin distribution of accreting millisecond pulsars - Deepto Chakrabarty (MIT)	Abstract
	Determining the properties of neutron stars and dense matter using LOFT - Fred Lamb (UIUC)	Abstract
	Thermonuclear burst spectroscopy using LOFT - Duncan Galloway (Monash)	Abstract
13:00 - 14:00	LUNCH	
14:00 - 15:30	OBSERVATORY SCIENCE II - Chair: João Braga	
	Relativistic jets - Rob Fender (Southampton)	Abstract
	Monitoring magnetars with LOFT - Vicky Kaspi (McGill)	Abstract
	X-ray bursts - Jean in't Zand (SRON)	Abstract
	Accreting white dwarf binaries - Domitilla de Martino (INAF-OA Capodimonte Naples)	Abstract
15:30 - 16:00	COFFEE	
16:00 - 18:00	OBSERVATORY SCIENCE III - Chair: René Hudec	
	Sky coverage issues for the LOFT WFM and LAD instruments - Ron Remillard (MIT)	Abstract
	Observation constraints for LOFT - Niels Lund (DTU Space)	Abstract
	X-ray timing of black hole transients as the compact jet turns on - Emrah Kalemci (Sabanci)	Abstract
	Beyond X-ray timing: fast multi-wavelength variability from the vicinity of compact objects - Piergiorgio Casella (INAF-Roma)	Abstract
	A synchrotron self-Compton disk reprocessing model for optical/X-ray correlation in black hole X-ray binaries - Juri Poutanen (Oulu)	Abstract
	ULXs with LOFT - Luca Zampieri (INAF-Padova)	Abstract
Friday October 28		
09:00 - 11:00	PARALLEL SESSIONS	
	SESSION1: Dense Matter and Observatory Science - Chair: Rudy Wijnands (Eulerzaal)	
	Magneto-elastic oscillations and magnetar QPOs - Nikolaos Stergioulas (Thessaloniki)	Abstract
	Gravitational wave instabilities in Low Mass X-ray Binaries - Ian Jones (Southampton)	Abstract
	Constraining the equation of state of dense matter from X-ray burst oscillations - Romain Artigue (IRAP)	Abstract
	Unveiling the nature of timing noise in accreting millisecond pulsars with LOFT - Luciano Burderi (Palermo)	Abstract
	GRB science with LOFT - Lorenzo Amati (INAF-IASF Bologna)	Abstract

	SESSION2: Strong gravity - Chair: Andrzej Zdziarski (Turingzaal)	
	Response of an accretion disk corona to a change in source luminosity - Wlodek Kluzniak (Copernicus Astronomical Center)	Abstract
	One formalism for the three Low Frequency QPO types - Peggy Varniere (U. Paris 7)	Abstract
	Beyond the Standard Scheme for Relativistic Spectral Line Profiles from Black Hole Accretion Discs - Vjaceslav Sochora (Astron. Inst. Czech Academy of Sciences)	Abstract
	Measuring strong gravity effects in AGN observed with LOFT - Alessandra de Rosa (INAF/IASF Roma)	Abstract
	X-ray spectral analysis and Fe-line spectroscopy of neutron star LMXBs with LOFT - Tiziana di Salvo (Palermo)	Abstract
11:00 - 11:30	COFFEE	
11.30 - 13:00	STRONG GRAVITY II - Chair: Enrico Bozzo	
	Accretion disks in strong gravity - Chris Done (Durham)	Abstract
	Higher order statistics as probes for understanding QPOs and noise - Tom Maccarone - (Southampton)	Abstract
	Global simulations of accretion onto weakly magnetized neutron stars: variability and strong gravity - Marina Romanova (Cornell)	Abstract
	High-frequency QPOs from black-hole binaries: where we stand and perspectives for LOFT - Tomaso Belloni (Brera)	Abstract
13:00	CLOSE OF THE FORMAL MEETING - Michiel van der Klis	
13:15 - 14:15	LUNCH	
Afternoon	Science/Instrument Working group discussions	

*An informal social gathering involving both drinks and snacks. Also used as a verb - borrelen - 'to have a borrel'. An important part of Dutch culture!

POSTERS

 [PROGRAM](#)

A. Goldwurm (APC, France)	An alternative 2-D detector plane for the Wide Field Monitor of LOFT	Abstract
B. Haskell (Univ. of Amsterdam, Netherlands)	The role of gravitational waves in LMXBs	Abstract
J. Poutanen* (Univ. of Oulu, Finland)	Modeling of X-ray burst spectral evolution: constraining the equation of state	Abstract
R. Mignani (MSSL-UCL, United Kingdom)	Optical follow-ups of X-ray sources observed by LOFT	Abstract
B. Paul (Raman Research Institute, India)	Orbital evolution of X-ray binaries: prospects with LOFT	Abstract
S. Motta (Osserv. Astronomico di Brera, Italy)	Low frequency oscillations in black holes: a spectral-timing approach to the case of GX 339-4	Abstract
S. Boutloukos (Univ. of Tuebingen, Germany)	Neutron star mass and radius constraints from high-precision burst spectra	Abstract
V. Suleimanov (Univ. of Tuebingen, Germany)	Progress in atmospheres of X-ray bursting stars modeling	Abstract
D. Lin (IRAP Toulouse, France)	Study of Neutron-Star Low-mass X-ray Binaries with LOFT	Abstract
A. D'Ai (Universita di Palermo, Italy)	Using LOFT to determine the shape of cyclotron absorption features in HMXBs	Abstract
H.-K. Chang (National Tsing Hua Univ., Taiwan)	Search for small Trans-Neptunian Objects with serendipitous occultation in X-rays	Abstract
G. Torok (SU Opava, Czech Republic)	Properties of neutron stars implied by models of twin-peak QPOs	Abstract
A. Tramacere (ISDC, Switzerland)	Stochastic acceleration and the evolution of spectral distributions in synchro-self-compton sources - a self consistent modelling of blazars' flares and the relevance of X-ray data above 10 keV	Abstract
K. S. Wood* (NRL, United States)	X-ray Timing of Accretion-Driven Shock Phenomena in AM Her Stars	Abstract

Z. Stuchlik (SU Opava, Czech Republic)	Multi-resonance orbital model of high-frequency quasiperiodic oscillations: possible high precision determination of black hole and neutron star spin	Abstract
H. Stiele (Osserv. Astronomico di Brera, Italy)	Spectral properties of the transition between soft and hard state of black hole binaries	Abstract
B. Mueck (Univ. of Tuebingen, Germany)	4U 1735-44: The present with XMM and RXTE and the future with XMM and LOFT	Abstract
A. Papitto (Univ. of Cagliari, Italy)	The spin evolution of the Terzan 5 accreting pulsar, IGR J17480-2446, during its 2010 outburst	Abstract
A. Baykal (Middle East Technical Univ., Turkey)	A Comprehensive Study on RXTE and INTEGRAL Observations of the X-ray Pulsar 4U 1907+09	Abstract
Barbara Heliadora Rodrigues (INPE, Brazil)	Brazilian Contribution to the LOFT Mission	Abstract
C. Schmid (Dr. Karl Remeis-Observ. & ECAP)	Simulation Software Package for X-ray Telescopes	Abstract
M. Wille (Dr. Karl Remeis-Observ. & ECAP)	SIMPUT - A File Format for Simulation Input	Abstract

*to be confirmed