

HTRA-IV, Agios Nikolaos, Crete, 5-7 May 2010
PROGRAMME

Wednesday 5th May 2010 : DAY 1: CURRENT STATUS

Session 1: Object Reviews (I) - Isolated Neutron Stars and X-ray Binaries

09:00 - 09:30	Joachim Trümper	Isolated Neutron Stars (Invited Review)
09:30 - 10:00	Luigi Stella	Magnetars and their Extreme Variability (Invited Review)
10:00 - 10:20	Lucas Guillemot	High time resolution observations of millisecond pulsars with the Fermi Large Area Telescope
10:20 - 10:40	Roberto Mignani	Optical timing studies of neutron stars: Current Status
10:40 - 11:10	<i>Coffee Break and Poster Session</i>	
11:10 - 11:40	Tomaso Belloni	Fast Variability from X-ray Binaries (Invited Review)
11:40 - 12:00	Piergiorgio Casella	Fast multiwavelength variability from jets in X-ray binaries
12:00 - 12:20	Nick Kylafis	The Role of Jets in Black-hole X-ray Binaries
12:20 - 12:40	Teo Muñoz-Darias	Mapping LMXBs with reprocessed x-ray bursts
12:40 - 13:00	David Russell	Rapid variations of polarization in low-mass X-ray binaries
13:00 - 15:00	<i>Lunch Break</i>	

Session 2: Object Reviews (II) - Compact Binaries and Transients

15:00 - 15:30	Danny Steeghs	White Dwarfs and Ultra Compact Binaries (Invited Review)
15:30 - 15:50	Steven Bloemen	High speed spectroscopy of intermediate polars
15:50 - 16:10	Ilham Nasiroglu	Very fast photometric observations of the intermediate polar V2069 Cyg
16:10 - 16:30	David Kaplan	Discovery of the Eclipsing Detached Double White Dwarf Binary
16:30 - 17:00	<i>Coffee Break and Poster Session</i>	
17:00 - 17:30	Nial Tanvir	Extra-Galactic Transients (Invited Review)
17:30 - 17:50	Evan Keane	Transient Radio Neutron Stars
17:50 - 18:10	Gianluca Israel	Probing magnetar physics through high time-resolved spectroscopy of X-ray flashes
18:10 - 18:30	Gottfried Kanbach	OPTIMA observations of the first optical magnetar SWIFT J1955+26: an update

19:00 - 20:00 *Workshop Reception*

Thursday 6th May 2010: DAY 2: CURRENT STATUS AND FUTURE GOALS

Session 3: Object Reviews (III) - Stars, Transits, Occultations

09:00 - 09:30	Andrea Richichi	Stellar Oscillations and Occultations (Invited Review)
09:30 - 09:50	Arne Rau	Spectroscopic Confirmation of the 5.4min Orbital Period in HM Cnc
09:50 - 10:10	Simone Dall'Osso	Probing the nature of the shortest period binary HM Cnc through time-resolved multiwavelength studies
10:10 - 10:30	Jürgen Schmitt	Flare star observations with OPTIMA
10:30 - 11:00	<i>Coffee Break and Poster Session</i>	
11:00 - 11:30	Jürgen Schmitt	Fast and transient phenomena in stellar magnetospheres / flare stars (Invited Review)
11:30 - 11:50	Chris Copperwheat	ULTRACAM observations of SDSS J0926+3624: The first known eclipsing AM CVn star
11:50 - 12:10	Shay Zucker	Detecting a small Kuiper Belt object using archival data of HST's Fine Guidance Sensor

Session 4: Theory and Future Science Goals

12:10 - 12:40	Virginia Trimble	HTRA Discovery Potentials (Invited Review)
12:40 - 15:00	<i>Lunch Break</i>	
15:00 - 15:20	Andy Shearer	Optical timing studies of neutron stars: Future Goals
15:20 - 15:40	Andrzej Szary	Partially Screened Gap - general approach and observational consequences
15:40 - 16:00	Alessandro Patruno	Searching Sub-Millisecond Pulsars in Accreting Neutron Stars
16:00 - 16:30	Patrizia Caraveo	Pulsar Observations with Fermi (Invited Review)
16:30 - 17:00	<i>Coffee Break and Poster Session</i>	
17:00 - 18:00	The Future of HTRA (Round Table Discussion)	

Friday 7th May 2010: DAY 3: INSTRUMENTATION

Session 5: Optical HTRA with Current and Future Instruments

09:00 - 09:30	Vik Dhillon	HTRA with ULTRACAM and ULTRASPEC: past, present and future (Invited Review)
09:30 - 09:50	Giovanni Bonanno	Solid State Photon-Counters for High Time Resolution Astrophysics (HTRA)
09:50 - 10:10	Cesare Barbieri	Results of Iqueye at the NTT in 2009
10:10 - 10:30	Agnieszka Słowikowska	Spatial decomposition of polarization components of the Crab pulsar and its nebula
10:30 - 11:00	<i>Coffee Break and Poster Session</i>	
11:00 - 11:30	Isobel Hook	HTRA with the ELTs (Invited Review)
11:30 - 11:50	Serena Gradari	The optical pulsar B0540-69
11:50 - 12:10	Antonio de Ugarte Postigo	OCTOCAM: A multi-channel imager and spectrograph to explore the transient Universe
12:10 - 12:30	Françoise Roques	Fast photometry at the Paris observatory: portable cameras and multi-fibre instruments
12:30 - 12:50	Poster Presentation Session	
12:50 - 15:00	<i>Lunch Break</i>	

Session 6: Multi-wavelength HTRA with Current and Future Instruments

15:00 - 15:30	Michael Kramer	The HTRA potential of the SKA and its relation to observations with large optical telescopes (Invited Review)
15:30 - 16:00	Werner Becker	The HTRA potential of IXO (Invited Review)
16:00 - 16:20	Keith Bannister	The Chirpolator: A new method for detecting fast transients with radio interferometers
16:20 - 16:50	<i>Coffee Break and Poster Session</i>	
16:50 - 17:20	Ron Remillard	HTRA potential of future space-based X- and gamma-ray facilities (Invited Review)
17:20 - 17:50	Felix Aharonian	HTRA with Cerenkov Telescopes (Invited Review)
17:50 - 18:10	Immacolata Donnarumma	High resolution X-ray Timing from a LOFT
18:10 - 18:40	<i>Rapporteur</i>	

Posters

Yannick Boissel	MIOSOTYS, a multi-object high-rate photometer designed for TNO serendipitous occultations
Chris Copperwheat	Physical properties of IP Pegasi: an eclipsing dwarf nova with an unusually cool white dwarf
Janusz Gil	X-ray thermal radiation from hot polar cap in pulsars
Gottfried Kanbach	The OPTIMA photo-polarimeter: updated configuration and calibration
Gottfried Kanbach	The orbital ephemeris and emission states of HU Aqr observed with OPTIMA
Steven Parsons	Orbital Period Variations in Eclipsing Post Common Envelope Binaries
Tobias Prinz	Timing X-ray Pulsars for Spacecraft Navigation
Brendan Sheehan	High Speed Detectors for Polarimetric Observations using GASP
Alexander Stefanescu	OPTIMA-Burst photon-counting observations of GRB 090726
Anna Zajączyk	Models of Gamma-ray Activity in Millisecond Pulsars in the Wake of Fermi LAT Results