



VAM 2025:binaries Program



-- Monday 23 June --

Morning		Afternoon	
09:00 - 09:20	Welcome to VAM 2025:binaries!	Session: OUTFLOWS & JETS - I	
Chair: Melana Del Santo		Chair: Chris Done	
Session: ACCRETION & DISK GEOMETRY - I		INVITED 14:30 - 14:55	James Matthews <i>Modelling disc winds in accreting binaries with SIROCCO: 5 key physics challenges</i>
INVITED 09:20 - 09:45	Guillaume Dubus <i>The disk instability model</i>	14:55 - 15:10	Alessandra Ambrifi <i>Observing and Modelling Low Ionisation Winds in Black Hole X-ray Binaries</i>
09:45 - 10:00	Dave Russell <i>Witnessing the onset of a black hole outburst</i>	15:10 - 15:25	Maxime Parra <i>First XRISM results for BHLMBX outflows and the way forward</i>
10:00 - 10:15	Ruican Ma <i>Spectral-Timing Analysis of Swift J1727.8--1613 using Insigh-HXMT observations</i>	15:25 - 15:40	Ryota Tomaru <i>The highest column disk wind in GX 13+1 by XRISM</i>
10:15 - 10:30	Vitaly Neustroev <i>How do the accretion discs outburst in the WZ Sge-type stars?</i>	15:40 - 15:55	POSTER ANNOUNCEMENTS
10:30 - 11:00	Coffee/Tea break	15:55 - 16:25	Coffee/Tea break
Chair: Mariano Mendez		Chair: Federico Vincentelli	
INVITED 11:00 - 11:25	Gibwa Musoke <i>GRMHD simulations of accretion disks: QPOs, truncated disks and QPOs from truncated disks</i>	INVITED 16:25 - 16:50	Virginia Cúneo <i>Outflows from accreting white dwarfs: insights and future directions in accretion studies</i>
11:25 - 11:40	Ole Koenig <i>Is there disk truncation in the hard states of Swift J1727.8-1613?</i>	16:50 - 17:05	Amin Mosallanezhad <i>State-of-the-art simulations of line-driven accretion disc winds</i>
11:40 - 11:55	Loren Held <i>Hydrodynamic instability, warping, and vertical oscillations in tidally distorted accretion disks</i>	17:05 - 17:20	Yusuke Tampo <i>A disc wind origin for optical spectra of outbursting dwarf novae</i>
11:55 - 12:10	Pengcheng Yang <i>Evidence for enhanced mass transfer in the disc preceding the transition to the soft state in MAXI J1820+070</i>	17:20 - 17:35	Melania Del Santo <i>The ultra-fast outflow in MAXI J1810-222</i>
12:10 - 12:30	POSTER ANNOUNCEMENTS	17:35 - 17:50	Francesco Barra <i>Exploring burst-driven winds during photospheric radius expansion bursts in 4U 1820-303</i>
12:30 - 14:30	LUNCH (free time)	-- END --	

 VAM 2025:binaries Program 				
-- Tuesday 24 June --				
Morning			Afternoon	
Session: OUTFLOWS & JETS - II			Session: ULXs	
Chair: James Matthews			Chair: Piergiorgio Casella	
INVITED 09:00 - 09:25	James Miller-Jones <i>Accretion-ejection coupling in accreting stellar-mass compact objects</i>		INVITED 15:00 - 15:25	Ciro Pinto <i>Accretion and ejection in ultra-luminous X-ray sources</i>
INVITED 09:25 - 09:50	Federico Vincentelli <i>Multi-wavelength jet variability in Low mass X-ray Binaries</i>		15:25 - 15:40	Simona Caserta <i>High-resolution X-ray view of the changing wind in ultraluminous X-ray source NGC 5204 X-1</i>
09:50 - 10:05	Mariano Mendez <i>The dynamic link between the accretion disc, the X-ray corona and radio jets in black-hole binaries</i>		15:40 - 15:55	Roberto Soria <i>Powerful outflows from a mysterious point-like source in NGC 5408</i>
10:05 - 10:20	Sara E. Motta <i>The slow and fast jets from GRS 1915+105. A smoking gun for a new jet paradigm</i>		15:55 - 16:10	Akihiro Inoue <i>GR-RMHD Simulations of Super-Eddington Accretion Flows onto a Neutron Star with Dipole and Quadrupole Magnetic Fields</i>
10:20 - 10:35	Carlotta Miceli <i>Jet modeling with ISHEM of the BH transient MAXI J1535-571</i>		16:10 - 16:25	Fabio Pintore <i>Making order in the caos of highly variable ultraluminous X-ray sources</i>
10:35- 10:50	POSTER ANNOUNCEMENTS		16:25 - 16:55	Coffee/Tea break
10:50 - 11:20	Coffee/Tea break			
Chair: Sara Motta		Chair: Galina Lipunova		
INVITED 11:20- 11:45	Joe Bright <i>Transient Radio Astronomy in the SKA Era: The Importance of Dedicated Transient Interferometers</i>	16:55 - 17:10	Matteo Imbrogno <i>Wobbling around the clock: a magnetic origin for the mHz QPOs in pulsating ULXs?</i>	
11:45 - 12:00	Isabella Mariani <i>A MeerKAT view of the parsec-scale jets in the black hole X-ray binary GRS 1758-258</i>	17:10 - 17:25	Tanuman Ghosh <i>From ULXs to HLXs: Are Neutron Stars the Key to Extreme Accretion?</i>	
12:00 - 12:15	Francesco Carotenuto <i>X-ray variability and transient jets in the black hole X-ray binary MAXI J1348-630</i>	17:25 - 17:40	Roberta Amato <i>Black holes or neutron stars? A clustering approach to explore the nature of the compact objects in ULXs</i>	
12:15 - 12:30	Clara Lilje <i>Are jets from stellar mass black holes as fast as those from supermassive black holes?</i>	17:40 - 18:10	DISCUSSION <i>Lead: Ciro Pinto</i>	
12:30 - 13:00	DISCUSSION <i>Lead: Rob Fender</i>			
13:00- 15:00	LUNCH <i>(free time)</i>	18:30-20:00	PIZZA PARTY <i>at Loggia Amblingh</i>	



VAM 2025:binaries Program



-- Wednesday 25 June --

Morning			Afternoon	
Session: WIND ACCRETION			Session: ACCRETION & DISK GEOMETRY - II	
Chair: Roberta Amato			Chair: David Russell	
INVITED 09:00 - 09:25	Lara Sidoli <i>A review on high-mass X-ray binaries: from X-rays to radio wavelengths</i>		INVITED 14:30 - 14:55	Martina Veresvarska <i>Understanding Accretion through Optical Variability of Accreting White Dwarfs</i>
09:25 - 09:40	Alessio Marino <i>Einstein Probe discovery of the Be-White Dwarf EP J005245.1-722843</i>		14:55 - 15:10	Samuel Turner <i>Exploring the Evolution of Boundary Layers in Accreting Systems</i>
09:40 - 09:55	Elena Ambrosi <i>A detailed spectral-timing NUSTAR view of the HMXB 4U 1901+03</i>		15:10 - 15:25	Andrzej Zdziarski What are the spins of stellar-mass black holes?
09:55 - 10:10	David Kaltenbrunner <i>High-mass X-ray binaries in the Large Magellanic Cloud detected with eROSITA</i>		15:25 - 15:40	Candela Bellavita <i>An imaginary QPO in the soft-to-hard transition of the black hole X-ray binary MAXI J1820+070: a new window into the corona evolution</i>
10:10 - 10:30	POSTER ANNOUNCEMENTS		15:40 - 16:10	Coffee/Tea break
10:30 - 11:00	Coffee/Tea break			
Chair: Andrzej Zdziarski			Chair: Alessio Marino	
11:00 - 11:15	Andrea Belfiore <i>The Orbit of the Most Extreme ULX Pulsar</i>	INVITED 16:10 - 16:35	Barbara De Marco <i>The accretion flow in black hole X-ray binaries: insights from X-ray spectral-timing</i>	
Session: ACCRETION & DISK GEOMETRY - II		16:35 - 16:50	Guglielmo Mastroserio Probing the Inner Geometry of Stellar Mass Black Holes: Insights from the X-ray Polarization Measurement of GX 339-4	
INVITED 11:15 - 11:40	Adam Ingram <i>Accretion disk variability in black hole X-ray binaries</i>	16:50 - 17:05	Kevin Alabarta <i>Unveiling the optical and infrared emission components of MAXI J1348-630 with XB-NEWS</i>	
11:40 - 11:55	Melissa Ewing <i>Detecting fast stochastic polarisation variability in X-ray sources</i>	17:05 - 17:20	Shifra Mandel <i>All X-ray eyes on a new black hole transient discovered <1 parsec from Sgr A*</i>	
11:55 - 12:10	Lorenzo Marra <i>Polarization properties of direct radiation in stellar-mass black hole accretion disks</i>	17:20 - 17:50	DISCUSSION Lead: Chris Done	
12:10 - 12:25	Giulia Illiano <i>Probing accretion geometry and disk reflection in accreting millisecond pulsars</i>	-- END --		
12:25 - 14:30	LUNCH (free time)	Guest Lecture 19:00 - 20:00 at Teatro Rossetti (In Italian)	Mariafelicia De Laurentis “Quando l’invisibile diventa visibile: la grande sfida dell’Event Horizon Telescope”	

VAM 2025:binaries Program

-- Thursday 26 June --

Morning		Afternoon	
Session: MAGNETIC ACCRETION & EJECTION		Session: THERMONUCLEAR EXPLOSIONS	
Chair: Domitilla de Martino		Chair: Simone Scaringi	
INVITED 09:00 - 09:25	Kaya Mori <i>Highlighting recent X-ray observations of magnetic cataclysmic variables</i>	INVITED 15:00 - 15:25	Duncan Galloway <i>New Views of Thermonuclear Bursts</i>
09:25 - 09:40	Gabriel Bridges <i>MCVSPEC: A Next Generation XSPEC Model of mCV Accretion</i>		
INVITED 09:40 - 10:05	M. Cristina Baglio <i>The highs and lows of transitional millisecond pulsars</i>	15:25 - 15:40	Yuri Cavecchi <i>The connection between Type I burst rate and accretion geometry</i>
10:05 - 10:20	Rebecca Kyer <i>Optical Spectral Features of Transitional Millisecond Pulsars</i>	15:40 - 15:55	Amy Knight <i>Type I X-ray Burst Emission Reflected into the Eclipses of EXO 0748-676</i>
10:20 - 10:35	Dimitrios Maniadakis <i>The extreme phase variability of the cyclotron line in the X-ray pulsar 4U 1538-52</i>	15:55 - 16:25	Coffee/Tea break
10:35 - 11:05	Coffee/Tea break		
Chair: Barbara De Marco		Chair: David Buckley	
11:05 - 11:20	Caterina Ballocco <i>Evidence of hot-spot drift in the accreting millisecond pulsar SAX J1808.4-3658: the first simultaneous X-ray/UV timing study</i>	INVITED 16:25 - 16:50	Francesca Panessa <i>AGN are not that boring anymore</i>
11:20 - 11:35	Riccardo La Placa <i>Semi-coherent analyses: a new tool for EM pulsation searches</i>	INVITED 16:50 - 17:15	Luca Izzo <i>Novae as Galactic lithium factories: further confirmations from multi-wavelength observations</i>
INVITED 11:35 - 12:00	David Buckley <i>White Dwarf Pulsars and Propellers</i>	17:15 - 17:30	Lientur Celedón <i>Studying the geometry of nova shells using MUSE</i>
12:00 - 12:15	Iris de Ruiter <i>Sporadic radio pulses from a white dwarf binary at the orbital period</i>	17:30 - 17:45	Valery Suleimanov <i>Model atmospheres of hot white dwarfs as a tool for super-soft X-ray sources investigations</i>
12:15 - 12:30	Patrick Woudt <i>MeerKAT radio observations of Cataclysmic Variables and White Dwarf pulsars</i>	17:45 - 18:15	DISCUSSION <i>Lead: Yuri Cavecchi</i>
12:30 - 13:00	DISCUSSION <i>Lead: Axel Schwöpe</i>		
13:00 - 15:00	LUNCH (free time)		
		19:30 - 22:30	SOCIAL DINNER <i>at Baia Del Sole</i>

VAM 2025:binaries Program

-- Friday 27 June --

Morning		Afternoon	
09:00 - 10:00	!!! FREE !!! A late start to the morning	Session: POPULATIONS, SURVEYS & METHODS	
Session: POPULATIONS, SURVEYS & METHODS		Chair: Axel Schwope	
		INVITED 15:00 - 15:25	Matteo Guainazzi <i>The XRISM revolution - part I.</i> - accreting Galactic compact objects
10:00 - 10:15	Oscar Straniero <i>Past evolution and final fate of symbiotic binaries</i>	INVITED 15:25 - 15:50	Francesco Coti Zelati <i>Einstein Probe: a new perspective on the transient X-ray Universe</i>
10:15 - 10:30	Luciano Piersanti <i>The binary system CD-30°11223, a new piece in the intriguing puzzle of SNe Ia progenitors</i>	15:50 - 16:05	Eleonora Veronica Lai <i>Stingray: your friendly Python library for spectral-timing</i>
10:30 - 10:45	Axel Schwope <i>The eROSITA CV X-ray sky</i>	16:05 - 16:20	John Paice <i>BlackGEM's Orphaned Binaries</i>
10:45 - 11:00	Daniela Muñoz Giraldo <i>New period-bounce candidates among eROSITA-selected Gaia white dwarfs</i>	16:20 - 16:50	Coffee/Tea break
11:00 - 11:40	Coffee/Tea break	Chair: Melania Del Santo	
11:40 - 11:55	Andrei-Alexandru Cristea <i>J2008, you still speak in riddles': a peculiar white dwarf merger remnant with a half-ring of circumstellar material</i>	16:50 - 17:05	Kieran O'Brien <i>Photon counting spectroscopy; From SuperSMART to the Time Domain Telescope</i>
11:55 - 12:10	Cheyenne Shariat <i>The Role of Triples on Accreting Binary Populations: A Combined Observational and Theoretical Approach</i>	17:05 - 17:20	Benjamin Ricketts <i>NEBULA-Xplorer: an X-ray timing small satellite concept for long term x-ray timing monitoring</i>
12:10 - 12:25	Zackery Irving <i>A Unified Description of the Timing Features of Accreting X-ray Binaries Using Gaussian Processes</i>	17:20 - 17:35	Bret Yotti <i>Flash: A New Survey and Follow-up Telescope Covering the Southern Sky at 1-second Cadences</i>
12:25 - 12:40	Edward Nathan <i>Recent development of the XILLVER reflection models</i>	17:35-18:05	DISCUSSION & CONCLUDING REMARKS Lead: SOC
12:40 - 15:00	LUNCH (free time)	18:30-20:00	FAREWELL APERITIVO in Piazza Caprioli