ISSI-DISKS-50 Workshop
"Accretion disks: the first 50 years"
17-21 June 2024

MONDAY 17 June, 2024

Notice: All presentation slots include 5'-10' of questions

08:50-09:00	Registration in ISSI, Hallerstrasse 6, 1st floor	
09:00-09:20	Introduction to ISSI and workshop objectives	Maurizio Falanga Alexandra Veledina
Session 1	**Accreting binaries: black holes and white dwarfs**	
		Chairperson: Maurizio Falanga
09:20-10:00	[First steps in accretion disks studies]	Rashid Sunyaev
10:00-10:30	*Coffee break*	
10:30-11.05	The soft state of black-hole X-ray binaries and implications for the spin	Andrzej Zdziarski
11:05-11:40	Rapid multi-wavelength variability in accreting black holes	Tom Maccarone
11:40-12.15	Polarimetry-timing of black hole X-ray binaries	Adam Ingram
12:15-13:30	*Lunch*	
		Chairperson: Alexandra Veledina
13:30-13:55	X-ray binaries in outbursts: what about semi-analytical models?	Greg Marcel
13:55-14:30	Accretion Disk Behaviour in 3 Remarkable BH X-ray Transients: Swift J1357.2-0933, V404 Cyg & MAXI J1820+070	Phil Charles
14:30-15:05	The thermal-viscous disc instability model forty years later	Jean-Pierre Lasota
15:05-15:35	*Coffee break*	
15:30-15:55	Physical Parameter Astro-tomography: developing a new methodology for understanding irradiated accretion discs	Bailey Tetarenko
15:55-16:30	Mapping accretion modes through variability from accreting white dwarfs	Simone Scaringi
16:30-17:00	Discussion: WDs and BH binaries	Led by Omer Blaes
17:30	*Welcome reception*	

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TUESDAY 18 June, 2024

Session 2	**Active galactic nuclei**	
		Chairpaerson: Chris Done
09:00-09:35	Spectroscopy and polarimetry of X-ray coronae	Giorgio Matt
09:35-10:10	The impact of winds on AGN accretion flows	Shane Davis
10:10-10:40	*Coffee break*	
10:40-11:15	The X-ray View of AGN	Chris Reynolds
11:15-11:40	Understanding AGN variability and Structure	Scott Hagen
11:40-12:10	Discussion: AGN	Led by Adam Ingram
12:10-13:25	*Lunch*	
13:25-14:00	Accretion disc winds in X-ray binaries: the hot phase	Gabriele Ponti
14:00-14:35	Accretion disc winds in X-ray binaries: the cold phase	Teo Munoz-Darias
14:35-15:00	Accretion disc winds in X-ray binaries: tests of driving mechanisms, and in a new era of high resolution from XRISM	Ryota Tomaru
	Photo	
15:00-15:30	*Coffee break*	
Session 3	**Winds**	
15:30-16:05	A look at accretion disc winds and atmospheres of dipping X-ray binaries with high resolution X-ray spectroscopy	Maria Diaz Trigo
16:05-16:40	Line-Driven Accretion Disk Winds	Christian Knigge
16:40-17:05	Polarization from accretion disk winds	Anagha Nitindala

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WEDNESDAY 19 June, 2024

Session 4	**Accreting neutron stars**	**Chairperson:** Sara Motta
9:00-09:35	X-ray polarimetric view of accreting neutron stars	Juri Poutanen
9:35-10:10	Knowns and unknowns about (a)periodic X-ray variability in NS	Diego Altamirano
10:10-10:40	*Coffee break*	
10:40-11:05	The highs and lows of transitional millisecond pulsars	Cristina Baglio
11:05-11:35	Discussion: winds and NSs	Led by Christian Knigge
11:35-12:05	Overall book structure	
	Lunch	
	Free afternoon	
19:00	*Social dinner offered by ISSI (Restaurant Rosengarten)*	

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THURSDAY 20 June, 2024

Session 5	**Sub-Eddington accretion**	**Chairperson:** Greg Marcel
09:00-09:35	Precessing and wobbling accretion disk in Her X-1 in M.N.Pavlinsky ART-XC telescope observations (online)	Konstantin Postnov & Nikolai Shakura
09:35-10:10	Thermal and viscous instabilities	Omer Blaes
10:10-10:40	*Coffee break*	
10:40-11:15	Energy release in accretion disks	Andrei Beloborodov
11:15-11:40	How Black Holes Accrete and Eject	Bart Ripperda
11:40-12:55	*Lunch*	
		Chairperson: Simone Scaringi
12:55-13:30	Strongly magnetized hot accretion flows	Jason Dexter
13:30-14:05	Dynamics of non-planar and non-circular discs	Gordon Ogilvie
14:05-14:30	The evolution of truncated accretion disks	Gibwa Musoke
14:30-15:00	*Coffee break*	
15:00-15:35	Accretion Disk Variability in GRMHD Simulations (online)	Chris Fragile
15:35-16:10	(online) TBD	Alexander Tchekhovskoy
16:10-16:45	Observations confront simulations: How X-ray polarisation can put observational limits on large scale ordered magnetic fields in the accretion flow	Chris Done
16:45-17:15	Discussion: disk structure	Led by Alexandra Veledina

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FRIDAY 21 June, 2024		
Session 6	**Super-Eddington accretion and ULXs**	**Chairperson:** Phil Charles
09:00-09:35	Precession of super-Eddington discs	Matthew Middleton
09:35-10:10	1D models of the super-Eddington accretion on black holes and neutron stars	Galina Lipunova
10:10-10:40	*Coffee break*	
10:40-11:15	Why do we need slim disks	Marek Abramowicz
11:15-11:50	Numerical Simulations of super-Eddington flows around BHs and magnetized NSs	Ken Ohsuga
11:50-12:20	Discussion: ULXs and super-Eddington accretion	Led by Chris Done
12:20-12:40	Overall book structure	
End of Workshop		