

Breaking the limits 2018

Super-Eddington accretion onto compact objects

Monday, October 1st

1	09:00-09:45	Chris Fragile	Review
	09:45-10:00	Stanley Owocki	Super-Eddington Mass Loss From Massive Stars
	10:00-10:15	Nir Shaviv	On The Structure Of Super-Eddington Atmospheres And Application To Super-Eddington Accretion Disks
	10:15-10:30	Shinji Koide	1D Numerical And Analytical Solutions On Energy Radiation From Spinning Black Holes With Force-Free Magnetodynamics
	10:30-10:45	Mariko Nomura	Numerical Simulations Of Line-Driven Disk Winds: Near- Or Super-Eddington Outflows And SMBH Growth
	10:45-11:00	Norita Kawanaka	Origin Of Optically Thick And Low Temperature Coronae In Supercritical Accretion Flows
	11:00-11:30	-- Coffee Break --	
1	11:30-11:45	Giora Shaviv	The Effect Of The Eddington Luminosity On Super Massive Stars
	11:45-12:45	Everyone	Discussion
	12:45-15:00	-- Lunch Break --	
2	15:00-15:45	Marianne Vestergaard	Review
	15:45-16:00	Hikari Shirakata	The Importance Of Super-Eddington Accretion For Less Massive SMBHs " Theoretical Predictions Of Eddington Ratio Distribution Functions At $0 < Z < 8$ "
	16:00-16:15	Swayamtrupta Panda	Quasar Main Sequence: Effect Of The Warm Corona On The Production Of FeII
	16:15-16:30	Paola Marziani	Extreme Population A Quasars As Eddington Standard Candles
	16:30-17:00	-- Coffee Break --	
2	17:00-18:00	Everyone	Discussion

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Tuesday, October 2nd

3	09:00-09:45	Nadia Zakamska	Review
	09:45-10:00	Frederick Davies	Direct Evidence For Super-Eddington Accretion In $Z > 7$ Quasars
	10:00-10:15	Gabriele Matzeu	The Evidence For A Radiatively Driven Disc-Wind In PDS 456
	10:15-10:30	Francesco Tombesi	Mapping Supermassive Black Hole Winds, From The Event Horizon Up To Galaxy Scales
	10:30-10:45	Tracey Jane Turner	New Insights Into X-Ray Reprocessing In Agn
	10:45-11:00	Laura Brenneman	Illuminating The Disk/Corona/Jet Connection In NLS1 Galaxies
	11:00-11:30	-- Coffee Break --	
3	11:30-11:45	Michael Parker	Ufos, Reflection, And The Eddington Limit
	11:45-12:00	Nicholas Ross	A Wise Investigation Of The Full $Z > 5$ Quasar Population
	12:00-12:15	Toshihiro Kawaguchi	A 100-Pc Scale, Fast And Dense Outflow In A Super-Eddington Accreting Active Galactic Nucleus
	12:15-12:30	Valentina Braitto	The New Extreme Disk Wind Of MCG -03-58-007
	12:30-12:45	Andrew Lobban	Detailed Spectral-Timing Analysis Of The QSO PG 1211+143 Through A Large XMM-Newton+NuSTAR Campaign
	12:45-15:00	-- Lunch Break --	
	15:00-16:00	Everyone	Discussion
	16:00-16:30	-- Coffee Break --	
4	16:30-16:45	Diego Altamirano	Review
	16:45-17:00	Pavel Medvedev	Biometrics Of X-Ray Jets In SS 433: Joint Analysis Of XMM-Newton, Chandra And NuSTAR Data
	17:00-17:45	Abigail Stevens	Phase-Resolved Spectroscopy Of The Lower kHz QPO In 4U1608-52

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Wednesday, October 3rd

4	09:00-09:15	Alicia López Oramas	Vhe Gamma-Ray Observations Of Binary Systems With The Magic Telescopes
	09:15-09:30	Idel Waisberg	Optical Interferometry Of A Microquasar: Resolving Supereddington Outflows In SS 433
	09:30-10:30	Everyone	Discussion
	10:30-11:00	-- Coffee Break --	
5	11:00-11:45	Matt Middleton	Review
	11:45-12:00	Stefania Carpano	Monitoring The Pulse Period And Flux Of NGC 300 ULX1
	12:00-12:15	Matt Middleton/ Murray Brightman	Magnetic Field Strength Of An Neutron-Star-Powered Ultraluminous X-Ray Source
	12:15-12:30	Jithesh Vadakkumthani	X-Ray Spectral Studies Of The Ultra-Luminous X-Ray Source M81 X-6
	12:30-12:45	Sergey Sazonov	NuSTAR Observations Of The Nearest ULX, M33 X-8: A Black Hole In A Very High State?
	12:45-13:00	Hannah Earnshaw	Old And New: A Broadband Look At The ULXs Of NGC 6946
	13:15-15:00	-- Lunch --	
	15:00-22:00	Social Trip And Dinner	

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Thursday, October 4th

5	09:00-09:15	Tana Joseph	ULXs In Globular Clusters: A Different Type Of Super Eddington Source
	09:15-09:30	Felix Fuerst	Two Periods And One Orbit: Variability And Ephemeris Of NGC 7793 P13
	09:30-09:45	Dom Walton	A Potential Cyclotron Feature In The ULX Pulsar NGC 300 ULX1
	09:45-10:00	Manfred Pakull	The Mechanical Power Of ULXs
	10:00-10:15	Matteo Bachetti	ULX Pulsar Searches - Can We Get Better?
	10:15-10:30	Guillermo Rodriguez	(Data) Mining For Extragalactic Neutron Stars -- The Case Of Pulsating Ultra Luminous X-Rays Sources (Pulxs)
	10:30-11:00	-- Coffee Break --	
5	11:00-12:00	Everyone	Discussion
6	12:00-12:15	Marcello Giroletti	Re-Solving The Jet/Cocoon Riddle Of The First Gravitational Wave With An Electromagnetic Counterpart
	12:15-13:00	Eleonora Troja	Review
	13:00-15:30	-- Lunch Break --	
6	15:30-15:45	Nathaniel Roth	Unifying TDE Observations: Results Of GRRMHD Simulations And Radiative Transfer Post-Processing
	15:45-16:00	Andrea Melandri	The Tale Of A Kilonova: The Electromagnetic Counterpart Of GRB/GW170817
	16:00-16:30	-- Coffee Break --	
6	16:30-17:30	Everyone	Discussion

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Friday, October 5th

7	09:00-09:45	TBD	Italian radio astronomy overview
	09:45-10:00	Abigail Stevens	Strobe-X: X-Ray Timing And Spectroscopy On Dynamical Timescales From Microseconds To Years
	10:00-10:15	Fabio Muleri	The Imaging X-Ray Polarimetry Explorer
	10:15-10:30	Giulia Stratta	The Transient High Energy Sky And Early Universe Surveyor (Theseus)
	10:30-11:30	-- Coffee Break --	
7	11:30-12:30	Everyone	Discussion