


BREAKING THE LIMITS
Super-Eddington accretion onto compact
objects
Arbatax, September 19-23, 2016

Conference Program

Monday, September 19th 2016

Time	Contribution
8:30-9:30	Registration
9:30-9:45	Welcome
SESSION 1	Accretion and ejection physics
9:45-10:15	Alexander Sadowsky: Simulating accretion flows - from the lowest to the highest accretion rates
10:15-10:30	Matteo Bugli: Non-ideal GRMHD simulations of thick accretion disks around black holes: connecting small and large scales
10:30-10:45	Bhupendra Mishra: Thermal instability (or not?) in three-dimensional, global, radiative GRMHD simulations of geometrically thin discs
10:45-11:15	Coffee break
11:15-11:30	Kohei Inayoshi: Hyper-Eddington accretion flows onto massive black holes
11:30-11:45	Salvatore Cielo: Bursty AGN jets in compact galaxies, from 3D simulations
11:45-11:12	Ileyk El Mellah: Numerical simulations of wind accretion onto compact objects : a multi-scale problem
12:00-12:30	Discussion
12:30-15:00	Lunch break
SESSION 2	Black hole growth and galaxy evolution
15:00-15:30	Andrew King: Theory of black hole growth and galaxy evolution
15:30-16:00	Marcella Brusa: Observations of black hole growth and galaxy evolution
16:00-16:15	Felix Mirabel: Stellar Black Holes Formed in the Dark
16:15-16:30	Hannalore Gerling-Dunsmore: Small Seed Black Hole Growth in Various Accretion Regimes
16:30-17:00	Coffee break
17:00-17:15	Yuya Sakurai: Hyper-Eddington accretion onto a black hole with super-Eddington luminosity



17:15-17:30

Alessandro Lupi: Growing massive black holes
via super-critical accretion of stellar mass seeds

17:30-17:45

Stergios Amarentidis: The earliest accreting
supermassive black holes : indications from
models for future observations

Tuesday, September 20th 2016

Time	Contribution
9:30-9:45	Laura Blecha: Uncovering the Signatures of Obscured AGN in Mergers
9:45-10:00	Benny Trakhtenbrot: New Constraints on the Radiative Efficiencies of the Highest-Redshift Quasars
10:00-10:30	Discussion
10:30-11:00	Coffee break
SESSION 3	Active Galactic Nuclei and quasars
11:00-11:30	Chris Reynolds
11:30-11:45	Francesco Tombesi: Evidence for a super-Eddington wind in the ultraluminous infrared galaxy IRAS F11119+3257?
11:45-12:00	James Reeves: Broad Soft X-ray Absorption Lines from the Quasar Wind in PDS 456.
12:00-12:15	Valentina Braito: Revealing the nature of AGN winds; from the fast to the slow components
12:15-15:00	Lunch break
15:00-15:15	Kouichi Hagino: Ultra-fast disk wind from a high accretion rate black hole 1H 0707-495
15:15-15:30	Francesca Panessa: AGN from low to high Eddington ratios: the X-ray and radio perspective
15:30-15:45	Martin Ward: New evidence that some of the gamma-ray detected Narrow Line Seyfert 1s are Super Eddington Sources
15:45-16:00	Manuela Bischetti: Revealing the heaviest, highly-accreting SMBHs at the heart of hyper-luminous quasars
16:00-16:15	Mary Loli Martínez-Aldama: Exploring the spectral properties of highly accreting quasars at high redshift
16:15-16:30	Ken Ebisawa: Origin of spectral variations of Seyfert 1 galaxies
16:30-17:00	Coffee break

17:00-17:15	Misaki Mizumoto: Characteristic X-ray spectral variations in the iron L-band of IRAS 13224-3089, 1H 0707-495 and NGC 4051
17:15-17:30	Tracey Jane Turner: Measuring Light Echos in NGC 4051
17:30-17:45	Emanuele Nardini: Discovery of transient iron fluorescence in the bare Seyfert Ark 120
17:45-18:00	Yoshiyuki Inoue: Discovery of the millimeter excess in a nearby Seyfert nucleus: Toward unveiling the magnetic field in the vicinity of a supermassive black hole
18:00-18:15	Filippos Koliopanos: In search of the missing population of intermediate mass black holes
18:15-18:45	Discussion - Andrew King
19:00-23:30	SOCIAL DINNER

Wednesday, September 21st 2016

Time

Contribution

SESSION 5(1)

Ultraluminous X-ray sources

9:30-10:00

Mar Mezcuca: Multiwavelength observations of ULXs

10:00-10:15

Matteo Bachetti: M82 X-2: an ultraluminous pulsar

10:15-10:30

Marianne Heida: NIR spectroscopy of ULXs

10:30-10:45

Kristhell López: Near Infrared Counterparts of ULXs

10:45-11:00

Hannah Earnshaw: Soft ULXs at the Eddington Threshold

11:00-11:30

Coffee break

SESSION 7

New and future observatories

11:30-12:00

Didier Barret: Athena

12:00-12:30

Nicolo' D'Amico: SRT and INAF missions

12:30-13:00

Discussion

13:00-14:00

Lunch break

14:00-20:00

SOCIAL TRIP to the Sardinia Radio Telescope

Thursday, September 22nd 2016

Time

Contribution

SESSION 4

Galactic super-Eddington black holes and neutron stars

9:30-10:00

Rob Fender: Review talk

10:00-10:15

Katja Pottschmidt: Broad band continuum spectra of accreting pulsars around / above the critical luminosity

10:15-10:30

Rebecca Nealon: QPOs from misaligned accretion discs

10:30-11:00

Coffee break

11:00-11:15

Valery Suleimanov: Super-Eddington accretion luminosity of highly magnetized neutron stars

11:15-11:30

Jamie Court: Exotic Variability in IGR J17091-3624; A Comparison with GRS 1915+105

11:30-12:00

Discussion - Felix Mirabel

12:00-15:00

Lunch break

SESSION 5(2)

Ultraluminous X-ray sources (2)

15:00-15:30

Ken Ohsuga: Theory of ULXs

15:30-16:00

Matthew Middleton: Observations of ULXs

16:00-16:15

Tim Roberts: At the extremes of super-Eddington accretion

16:15-16:30

Andrew Sutton: Crossing the Eddington limit: investigating accretion disc spectra in ultraluminous X-ray sources and sub-Eddington binaries

16:30-17:00

Coffee break

17:00-17:15

Ciro Pinto: Discovery of powerful winds in ultraluminous X-ray sources

17:15-17:30

Michal Bursa: Effects of geometry and mass accretion rate on thermal spectra of ULX sources

17:30-17:45

Shogo Kobayashi: Comparing ULXs with the other High-Eddington Sources

17:45-18:00

Takumi Ogawa: A unified model for ULXs and ULSS; radiation hydrodynamics simulations of super-Eddington accretion flows

18:00-18:30

Discussion

Friday, September 23rd 2016

Time	Contribution
SESSION 6	Gamma-ray bursts and tidal disruption events
9:30-10:00	Stefanie Komossa: Jetted and non-jetted tidal disruption events
10:00-10:30	Andrei Beloborodov: Review of GRBs
10:30-11:00	Coffee break
11:00-11:15	Lixin Jane Dai: Tidal disruption events as a probe of super-Eddington accretion
11:15-11:30	Erin Kara: Relativistic reverberation in a tidal disruption event
11:30-11:45	Ayako Ishii: Coupled Computation of Radiative Transfer with Relativistic Hydrodynamics Relevant to GRB Emission Process
11:45-12:15	Discussion - Luigi Piro
12:15-12:30	Conclusions

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