

Massive black holes in evolving galaxies: from quasars to quiescence

34th IAP Conference, June 25-29, 2018

Monday 25th June

09:15	Welcome	Marta Volonteri
	Session 1 Black hole-galaxy scaling relations and demography (local)	
09:30	Local Massive Black Holes and Scaling Relations	Chung-Pei Ma
10:10	Probing the origin of supermassive black hole seeds with nearby dwarf galaxies	Amy Reines
10:40	Looking for dwarf black holes in the nearby Universe	Paulina Lira
11:00	Searching for and characterizing black holes in dwarf galaxies	Vivienne Baldassare
11:20	Break	
11:50	Reverberation-Based Black Hole Masses and Scaling Relationships	Bradley Peterson
12:10	Correlating the total mass of galaxy clusters and the BH mass of the brightest cluster galaxies	Akos Bogdan
12:30	Black holes at the extremes: the low- and high-mass end of the scaling relations	Mar Mezcua
12:50	Calibrating the Black Hole Mass Scaling Relations	Vardha N. Bennert
13:10	Lunch	
14:30	SMBH coevolution challenged by nearby fossil red nuggets	Anna Ferre-Mateu
14:50	The stellar and gas dynamics of a changing-look AGN	Sandra Raimundo
	Session 2 Predictions and constraints on the cosmic evolution of black holes and hosts	Misty Bentz
15:10	The next frontier of Massive Galaxies and Quasars at the Cosmic Dawn	Tiziana Di Matteo
15:50	Zooming in on gas accretion onto supermassive black hole progenitors	Ricarda Beckmann
16:10	Mapping the Stellar Content of Galaxies Hosting The Fastest Growing SMBHs at $z \sim 5$, and in their Surrounding	Benny Trakhtenbrot
16:30	Break	
17:00	Co-evolution of galaxies & black holes? -- Insights from galaxy formation models & cosmological, hydrodynamic simulations	Michaela Hirschmann
17:30	The co-evolution of black holes and their galaxies	Yohan Dubois
18:00	Black hole-galaxy co-evolution in the FIRE simulations	Daniel Angles-Alcazar
18:20	The multiplicity of ALMA Compact Array counterparts of the IR-brightest SDSS quasars	Evanthia Hatziminaoglou
18:40	End	
19:00	Cocktail	

Tuesday 26th June

	Session 3 Downsizing/quenching/environment/clustering	Dave Alexander
09:00	Review of AGN Clustering and Environment Results	Alison Coil
09:40	The multi-scale interplay between black hole and galaxy growth	Stéphanie Juneau
10:10	Linking galaxy morphology to AGN activity	Mélanie Habouzit
10:30	Break	
11:00	Black hole-regulated star formation in massive galaxies	Ignacio Martin-Navarro
11:20	Compactification, mergers and quenching in CARLA clusters and proto-clusters at $z > 1.5$	Simona Mei
	Session 4 Role of massive black hole mergers in black hole growth	Alain Omont
11:40	Understanding the merger - AGN connection	Laura Blecha
12:20	Active Super Massive Black Holes Binaries embedded in gaseous circum-binaries discs: How fast they shrink?	Luciano Del Valle Bertoni
12:40	Flash Talks	
13:10	Lunch	
14:30	The birth of a supermassive black hole binary	Hugo Pfister
14:50	Recoiling Supermassive Black Hole Escape Velocities from Dark Matter Halos	Nicolas Choksi
	Session 5 Predictions and constraints on the cosmic evolution of AGN populations	Jacqueline Bergeron
15:20	The Cosmic Evolution of Black Holes: Trends & Outliers	Daniel Stern
16:00	High redshift AGN: the ATHENA perspective	Andrea Comastri
16:20	Break	
16:50	Constraining AGN Feedback With the Sunyaev-Zel'dovich Effect	Evan Scannapieco
17:10	Radio AGN populations and their cosmic evolution	Elaine Sadler
17:40	Large, Multi-Wavelength Surveys and the Cosmic Evolution of Quasars	Adam Myers
18:10	Massive black holes at high redshift	Yuxiang Qin
18:30	End	

Wednesday 27th June

Session 6 Physics of accretion: accretion discs, jet production

- 09:00 Challenges in Understanding Luminous AGN Accretion Flows
09:40 Organized Magnetic Fields and Black Hole Growth
10:00 The disk-corona relation in quasars: a new standard candle

Suzy Collin-Zahn
Omer Blaes
Mitchell Begelman
Guido Risaliti
Matthew Malkan
Ryan Hickox

Session 7 Interface of black hole accretion and star formation

- 10:20 The star formation - AGN connection
11:00 Break
11:30 Mergers Feedback and star formation in the young universe
11:50 The signature of AGN feedback on the global star-formation properties of AGN over $z \sim 0-3$
12:10 Black-Hole Growth: Suppression by SN and Trigger by Compaction
12:30 Comparing the interplay between SMBH accretion and SF at the bright and the faint end of the AGN luminosity function
12:50 Galaxy mergers triggering black hole growth at $z \sim 1$
13:10 End

Hagai Netzer
Dave Alexander
Avishai Dekel
Federica Duras
Andy Goulding

Thursday 28th June

Session 8 Black hole-galaxy scaling relations and demography (high-redshift)

- 09:00 Unveiling the past evolution of the AGN-host galaxy relation with X-ray surveys
09:40 Surveys of luminous quasars during the epoch of reionization
10:10 The growth of black holes in massive halos at high redshift
10:30 The Diverse Host Galaxies of the Most Massive Dusty Quasars at $z=2.5$
10:50 Break
11:20 The blackhole mass - galaxy mass relation at high z
11:40 Characterization of AGN variability in the optical and near infrared regimes
12:00 Supercritical accretion
12:20 Do changing-look AGN hold clues to black hole accretion and fueling?
12:40 **Flash Talks**
13:10 Lunch

Fabio La Franca
Andrea Merloni
Xiaohui Fan
Robert Feldmann
Manda Banerji
Alessandro Marconi
Paula Sanchez
Massimo Dotti
Marianne Vestergaard

Session 9 Interstellar, circumgalactic and intergalactic medium

- 14:30 AGN-gas interactions
15:10 High Redshift Quasars: Constraining their Lifetime and the Epoch of Reionization
15:30 The ALMA view of molecular tori in nearby AGN
16:00 The interstellar medium in quasars at the dawn of cosmic time
16:20 Break
16:50 Kinematics and dynamics of molecular gas in high redshift quasars
17:10 Quasars Probing Quasars: The Circumgalactic Medium Surrounding $z \sim 2$ Quasars
17:30 Lack of black hole growth in high redshift dwarf galaxies and implications for reionization
17:50 End
19:30 Banquet

Françoise Combes
Philippe Salomé
Anna-Christina Eilers
Santiago Garcia-Burillo
Roberto Decarli
Alessandro Lupi
Marie Wingyee Lau
Maxime Trebitsch

Friday 29th June

Session 10 AGN feedback, quasar winds, jets (1)

- 09:30 Observations of AGN feedback
10:10 AGN fueling and feedback with high-resolution ALMA observations
10:30 Observations of distant powerful radio galaxies: On the road to quenching massive galaxies in the early Universe
10:50 Break
11:20 The long-term variability of AGN and their feedback outflows
11:50 A Direct Comparison between Molecular and Ionised Outflows in Local Galaxies
12:10 A Song of Fire and Feedback: The Role of Large-Scale, AGN-Driven Outflows in Quenching Star Formation
12:30 Lunch

Joe Silk
Nadia Zakamska
Françoise Combes
Matthew Lehnert

Session 10 AGN feedback, quasar winds, jets (2)

- 14:00 Numerical study of AGN feedback in an isolated elliptical galaxy
14:20 AGN feedback studies: combining SINFONI and ALMA
14:40 Extreme fluctuations in Lyman-alpha opacity at high redshift: evidence for a population of faint AGN?
15:00 Impact of relativistic jets from AGNs on the ISM of their host galaxies
15:20 The Hidden Monster Driving NGC1266 into Quiescence
15:40 Conclusions
16:00 End

Matthew Lehnert
Feng Yuan
Vincenzo Mainieri
Sarah Bosman
Dipanjan Mukherjee
Lauranne Lanz