

Active Galactic Nuclei 13: Beauty and the Beast

Tuesday, 9 October 2018 - Friday, 12 October 2018

Milan

Scientific Programme

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**** TUESDAY, 9th OCTOBER****

09:00 - Registration open

(The registration desk will be open from 9:00 to 15:00 on Tuesday and Wednesday and from 9:00 to 12:00 on Thursday and Friday.)

10:00 - Welcome coffee

11:00 - WELCOME: *G. Tagliaferri & G. Ghisellini*

11:10 - 12:00 - GRAVITATIONAL WAVES (Chair: G. Ghisellini)

11:15 - **Coalescing black holes in the cosmic landscape** - *Monica Colpi* (INVITED)

11:45 - **AGN outflows in the emission-line region of the gravitational wave recoiling black hole candidate 3C 186** - *Marco Chiaberge*

12:00 - 13:00 - THE NON THERMAL WORLD: MULTI-MESSENGER AND JETS
(Chair: *G. Ghisellini*)

12:00 - **Ultra High Energy Cosmic Rays and the Highest Energies Universe** - *Roberto Aloisio* (INVITED)

12:30 - **High-energy neutrinos from blazars** - *Fabrizio Tavecchio* (INVITED)

13:00 - 14:30 - Lunch

14:30 - 16:00 - THE NON THERMAL WORLD: MULTI-MESSENGER AND JETS
(Chair: *M. Giroletti*)

14:30 - **Blazars as neutrinos factories** - *Chiara Righi*

14:45 - **Hunting for extreme blazars in the TeV band** - *Luca Foffano*

15:00 - **The Cherenkov Telescope Array view of some peculiar AGN classes** - *Marco Landoni*

15:15 - **Jetted Active Galactic Nuclei** - *Luigi Foschini*

15:30 - Exploring the the radio and GeV-TeV gamma-ray connection in the different blazar sub-classes - *Rocco Lico*

15:45 - Disc-jet coupling in AGN - *Francesca Panessa*

16:00 - 16:30 - Coffee break

16:30 - 18:00 - THE NON THERMAL WORLD: MULTI-MESSENGER AND JETS (Chair: A. Capetti)

16:30 - LeMMINGS: the eMERLIN radio legacy survey of nearby galaxies - *Ranieri Baldi*

16:45 - On the connection between large-scale radio morphology and nuclear accretion in the hybrid population of FRII-low-excitation radio galaxies - *Duccio Macconi*

17:00 - Probing restarting activity in soft gamma-ray selected giant radio galaxies - *Gabriele Bruni*

17:15 - The MURALES survey: a MUse RAdio Loud Emission lines Snapshot - *Barbara Balmaverde*

17:30 - The environmental properties of radio AGN - *Manuela Magliocchetti*

18:00 - End of the first day

21:00 - CONFERENZA PUBBLICA: Neutrini al bagno - *Chiara Righi*

**** WEDNESDAY, 10th OCTOBER****

9:00 - 10:30 - CENTRAL ENGINE AND CIRCUM-NUCLEAR REGIONS (Chair: A. Comastri)

9:00 - The physics of ionized gas in agn: testing predictions from first principles - *Stefano Bianchi (INVITED)*

9:30 - Estimating the coronal parameters in AGN with MoCA - *Riccardo Middei*

9:45 - Coronal parameters in Seyfert galaxies: the NuSTAR view and the future IXPE perspectives - *Alessia Tortosa*

10:00 - Relativistic accretion disks - *Samuele Campitiello*

10:15 - **The high-energy view of Seyfert galaxies through broad-band monitoring campaigns**
- *Francesco Ursini*

10:30 - 11:00 - Coffee break

11:00 - 12:45 - CENTRAL ENGINE AND CIRCUM-NUCLEAR REGIONS (Chair: P. Severgnini)

11:00 - **Weighting a beast: how to measure the mass of an accreting Super Massive Black Hole?** - *Giorgio Calderone* (INVITED)

11:30 - **How does the host galaxy affect the BH viral mass estimates?** - *Ludovico Varisco*

11:45 - **Orientation effects on quasars SED: the torus IR emission** - *Susanna Bisogni*

12:00 - **When an AGN has a crush...on a model** - *Fabrizio Nicastro*

12:15 - **A deep NuSTAR view of the buried AGN in NGC 1068** - *Alessandra Zaino*

12:30 - **Disclosing the properties of low-redshift, kpc-scale dual AGN through XMM-Newton and SDSS spectroscopy** - *Alessandra De Rosa*

12:45 - 14:30 - Lunch

14:30 - 16:00 - SMBH, HOST GALAXY AND SCALING RELATIONS

14:30 - **The relation between supermassive black holes and their host galaxies** - *Alessandro Marconi* (INVITED)

15:00 - **Black Hole Masses from Reverberation** - *Elena Dalla Bontà*

15:15 - **Probing the AGN/galaxy coevolution in the widest dynamical range ever** - *Federica Duras*

15:30 - **AGN host galaxies scaling relations** - *Chiara Feruglio*

15:45 - **The ALMA view of the high redshift relation between Supermassive Black Holes and their Host Galaxies** - *Antonio Pensabene*

16:00 - 16:30 - Coffee break

16:30 - 17:30 - SMBH, HOST GALAXY AND SCALING RELATIONS

16:30 - **The molecular gas content in obscured AGN at $z>1$** - *Michele Perna*

16:45 - **The hosts of obscured AGN at redshift >2.5 in the CDF-S: the ALMA view** - *Quirino D'Amato*

17:00 - **The J1030 deep survey: an INAF legacy field for AGN** - *Roberto Gilli*

17:15 - **Dependence of equivalent width of quasar emission lines on UV spectral index, quasar luminosity and BH mass** - *Olena Torbaniuk*

17:30 - End of the second day

20:00 - SOCIAL DINNER - "El Brellin" Restaurant

**** THURSDAY, 11th OCTOBER ****

9:00 - 10:30 - SMBH, HOST GALAXY AND SCALING RELATIONS

9:00 - **Understanding AGN evolution with large (X-ray) surveys: current constraints and prospects for eROSITA** - *Andrea Merloni* (INVITED)

9:30 - **AGN in Brightest Cluster Galaxies** - *Paolo Tozzi*

9:45 - **Probing clustering of x-ray agn using chandra cosmos legacy** - *Viola Allevato*

10:00 - **SMBH accretion properties of radio-selected AGN out to $z=4$** - *Ivan DElvecchio*

10:15 - **Giant Lyman alpha nebulae around hyperluminous BAL quasars** - *Andrea Travascio*

10:30 - 11:00 - Coffee break

11:00 - 12:45 - OUTFLOWS AND FEEDBACK PROCESSES (Chair: C. Cicone)

11:00 - **AGN feedback in the form of powerful outflows** - *Marcella Brusa* (INVITED)

11:30 - Mapping supermassive black hole winds, from the event horizon up to galaxy scales -
Francesco Tombesi

11:45 - Exceptional ALMA look at the anatomy of a luminous quasar host - *Enrico Piconcelli*

12:00 - Photoevaporation of molecular clumps in quasar outflows - *Davide Decataldo*

12:15 - The AGN fueling/feedback cycle: a multi-phase study of a sample of local radio galaxies - *Ilaria Ruffa*

12:30 - Two-Face(s): ionized and neutral galactic winds in the local Universe - *Alice Concas*

12:45 - 14:30 - Lunch

14:30 - 16:00 - OUTFLOWS AND FEEDBACK PROCESSES (Chair: G. Cresci)

14:30 - AGN negative and positive feedback: theory and observational evidence - *Roberto Maiolino*

15:00 - Outflows vs star formation in nearby AGN from the MAGNUM survey - *Giacomo Venturi*

15:15 - AGN-driven outflows in the early Universe - *Stefano Carniani*

15:30 - BLR vs NLR winds in the most luminous quasars - *Giustina Vietri*

15:45 - Ionised outflows in z~6 QSOs are there. Investigating AGN-feedback and host galaxy properties in very luminous high-redshift QSOs - *Manuela Bischetti*

16:00 - 16:30 - Coffee break

16:30 - 17:30 - COSMOLOGY AND HIGH-REDSHIFT (Chair: G. Risaliti)

16:30 - Quasars at the dawn of cosmic time - *Roberto Decarli* (INVITED)

17:00 - The X-ray/UV luminosities relation in high-redshift quasars and its use for cosmology - *Francesco Salvestrini*

17:15 - Discovery of a 4σ deviation from the Concordance Model of Cosmology using the

Hubble Diagram of Quasars - *Elisabetta Lusso*

17:30 - End of the third day

20:00 - TRADITIONAL FOOTBALL MATCH

FRIDAY, 12th OCTOBER

9:00 - 10:30 - COSMOLOGY AND HIGH-REDSHIFTS (*Chair: F. Haardt*)

9:00 - The prodigious history of the first SMBHs and their host galaxies: Gargantua and Pantagruel at cosmic dawn - *Raffaella Schneider* (INVITED)

9:30 - The relative contribution of AGNs and star-forming galaxies to reionization - *Fabio Fontanot*

9:45 - How to assemble extremely massive black holes in a very short quasar life-time - *Tullia Sbarrato*

10:00 - DES0141-54: the most radio-loud quasar at high redshift ($z=5$) - *Sivia Belladitta*

10:15 - 10:45 - Coffee break

10:45 - 11:15 - COSMOLOGY AND HIGH-REDSHIFT (*Chair: F. Haardt*)

10:45 - The X-ray properties of $z\sim 6$ quasars - *Riccardo Nanni*

11:00 - The early growth of super-massive black holes as seen by Chandra - *Fabio Vito*

11:15 - 12:15 - BEAUTY AND THE BEAST (*Chair: R. Schneider*) *Marta Volonteri & Fabrizio Fiore*

12:15 - 12:45 - CONCLUDING REMARKS