

*PhD Summer School:
Supermassive Black Holes and their Host Galaxies
29 July - 4 August 2018, Asiago, Italy*

Monday 30 July 2018

09:00 - 09:30 Registration

09:30 - 10:00 Opening

Structure and scaling relations of galaxies from integral-field spectroscopy – part I

10:00 - 10:45 (L) M. Cappellari: Galaxies structure (photometry and kinematics)

10:45 - 11:15 Coffee Break

11:15 - 12:00 (L) M. Cappellari: Galaxy scaling relations

12:00 - 12:15 (T) T. Caglar: Cross-calibration of SBH masses using X-SHOOTER spectroscopy

12:15 - 12:30 (T) M. Rubino: Counter-rotating galaxies with Integral Field Units spectroscopy

12:30 - 14:30 Lunch

14:30 - 14:45 (T) V. Cuomo: Probing the dark matter content in CALIFA weakly barred galaxies

14:45 - 15:00 (T) M. Stone: Host Galaxies and Close Environments of AGN

Spectral properties of AGN – part I

15:00 - 15:45 (L) S. Ciroi: Main properties of AGN

15:45 - 16:30 (L) S. Ciroi: AGN emission lines

16:30 - 17:00 Coffee Break

Measuring SBH masses through ionized-gas modeling – part I

17:00 - 17:45 (L) E. Dalla Bontà: Ionized-gas kinematics

17:45 - 18:30 (L) E. Dalla Bontà: Gas dynamical modeling

18:30 - 18:45 (T) S. Panda: The AGN-AGB connection: Deciphering the dust-driven winds

18:45 - 19:00 (T) N. Roy: Detecting AGN signatures in Red Geysers

19:30 Dinner

Tuesday 31 July 2018

Structure and scaling relations of galaxies from integral-field spectroscopy – part II

08:30 - 09:15 (L) M. Cappellari: Dark matter, black holes, IMF

09:15 - 10:00 (L) M. Cappellari: Environment and galaxy evolution

10:00 - 10:15 (T) S. Vaughan: The Initial Mass Function and Stellar Population of NGC 1399

10:15 - 10:30 (T) I. Pagotto: Mass estimates of SBHs from unresolved ionized-gas kinematics: stellar contribution and $M_{\bullet} - \sigma_e$ relation

10:30 - 11:00 Coffee Break

Spectral properties of AGN – part II

11:00 - 11:45 (L) S. Ciroi: Broad Line Region

11:45 - 12:30 (L) S. Ciroi: Narrow Line Region

12:30 - 14:30 Lunch

14:30 - 14:45 (T) E. Cortes-Suárez: Nuclear broad emission lines AGN candidates in MaNGA

14:45 - 15:00 (T) S. Y. Yong: An Update on Black Hole Mass Estimation: How good is the virial estimate?

The inner few parsecs of the Milky Way – part I

15:00 - 15:45 (L) J. Magorrian: How to find the centre of our Galaxy

15:45 - 16:30 (L) J. Magorrian: Discrete stellar kinematics

16:30 - 17:00 Coffee Break

Measuring SBH masses through ionized-gas modeling – part II

17:00 - 17:45 (L) E. Dalla Bontà: Reverberation mapping

SBHs and their host galaxies

17:45 - 18:30 (L) E. Dalla Bontà: SBHs and galaxies coevolution

18:30 - 18:45 (T) C. Sobrino Figaredo: On the bowl-shaped torus geometry of AGN

18:45 - 19:00 (T) H. Cho: Reverberation Mapping of NGC 4395

19:30 Dinner

Wednesday 1 August 2018

9:00 - 14:00 Great War Tour (*packed lunch provided by the hotel*)

The inner few parsecs of the Milky Way – part II

16:30 - 17:15 (L) J. Magorrian: Dynamical models of the mass distribution within the central parsec

17:15 - 18:00 (L) J. Magorrian: Comparison with theoretical predictions and with observations of other galaxies

18:00 - 18:15 (T) I. Smirnova-Pinchukova: The impact of AGN on star formation in luminous local AGN

18:15 - 18:30 (T) N. Adams: PhotoZ's and Luminosity Functions with VIDEO

19:30 Dinner

21:30 01:30 S. Ciroi & E. Dalla Bontà: telescope observations and lab.

Thursday 2 August 2018

Gravitational waves from SBH: listening to the whispers of giants – part I

11:00 - 11:45 (L) G. Ciani: Gravitational waves in linearized GR

11:45 - 12:30 (L) G. Ciani: GW from binary systems

12:30 - 14:30 Lunch

14:30 - 14:45 (T) N. Nguyen: Galactic Mergers at $z \sim 5$

14:45 - 15:00 (T) M. Smith: Molecular gas dynamics measure the SMBH mass in NGC 524

Weighing SBHs Using Molecular Gas – part I

15:00 - 15:45 (L) M. Bureau: Radio synthesis imaging

15:45 - 16:30 (L) M. Bureau: ALMA

16:30 - 17:00 Coffee Break

Phenomenology and physics of quasars as accreting black holes – part I

17:00 - 17:45 (L) P. Marziani: Quasar spectral properties and their systematization

17:45 - 18:30 (L) P. Marziani: Interpretation of the optical and UV emission line spectra

18:30 - 18:45 (T) T. M. Buendia Rios: Quasar Hamburg-ESO spectral analysis in the context of the Eigenvector 1 optical parameter

18:45 - 19:00 (T) M. Åsniegowska: Quasar main sequence in the UV plane

19:30 Dinner

Friday 3 August 2018

Phenomenology and physics of quasars as accreting black holes – part II

09:00 - 9:45 (L) P. Marziani: Quasars as accreting black holes: estimates of the main physical parameters

9:45 - 10:30 (L) P. Marziani: Quasar evolution in a cosmological context and cosmology with quasars

10:30 - 11:00 Coffee Break

Gravitational waves from SBHs: listening to the wispers of giants – part II

11:00 - 11:45 (L) G. Ciani: Interferometric GW detectors

11:45 - 12:30 (L) G. Ciani: The LISA space observatory

12:30 - 14:30 Lunch

Weighing SBHs Using Molecular Gas – part II

14:30 - 15:15 (L) M. Bureau: Weighing black holes with molecular gas (I)

15:15 - 16:00 (L) M. Bureau: Weighing black holes with molecular gas (II)

16:00 - 16:30 Coffee Break

16:30 - 17:00 Conclusion

19:30 Dinner