

Deconstructing Galaxies: Structure and Morphology in the Era of Large Surveys

Conference Programme

KT: Keynote Talk (25+5 min)

IT: Invited Talk (20+5 min)

CT: Contributed Talk (15+5 min)

Monday

Session: Structure, Morphology, and the Underlying Physics

09:00 – 09:10 Conference welcome

09:10 – 09:35 K. Masters (IT) – *The morphologies of galaxies in the Galaxy Zoo*

09:35 – 10:05 S. Driver (KT) – *The universal mass functions of bulges and disks*

10:05 – 10:25 P. Côté (CT) – *The structure of galaxies in the core of the Virgo cluster*

10:25 – 10:45 L. Fogarty (CT) – *The kinematic morphology-density relation and the formation of slow rotating early-type galaxies with SAMI*

10:45 – 11:15 Coffee Break

11:15 – 11:40 P.-A. Duc (IT) – *The mass assembly of early-type galaxies with their fine structures*

11:40 – 12:00 Y.-K. Sheen (CT) – *Post-merger signatures of red-sequence galaxies in rich Abell clusters at $z < 0.1$*

12:00 – 12:25 C. Conselice (IT) – *The relationship between the stellar light distribution of galaxies and their formation histories*

12:25 – 12:45 I. Damjanov (CT) – *Local and intermediate-redshift analogs of the extreme high-redshift systems: clumpy disks and red nuggets*

12:45 – 14:45 Lunch

14:45 – 15:05 T. Gonçalves (CT) – *Secular evolution in the green valley*

15:05 – 15:25 J. Kartaltepe (CT) – *Galaxy morphology at the peak of galaxy assembly from CANDELS*

15:25 – 15:45 D. Sobral (CT) – *The dynamics, morphologies and evolution of star-forming galaxies since $z = 2.23$ with KMOS, SINFONI & HST*

15:45 – 16:15 Coffee Break

16:15 – 16:45 M. Cappellari (KT) – *The roles of environment, galaxy mass and internal kinematics*

16:45 – 17:15 A. Burkert (KT) – *Galaxy formation modes and their relation to structure*

17:15 – 17:35 N. Padilla (CT) – *Effects of stochasticity of acquisition of angular momentum in the evolution of galaxies*

17:35 – 17:55 M. Stringer (CT) – *Galaxy sizes and morphology as a consequence of cosmology*

Tuesday

Session: Structure and Morphology of Early-Type and Spheroidal Galaxies

09:00 – 09:30 L. Ferrarese (KT) – *The structure of early-type galaxies*

09:30 – 10:00 T. Treu (KT) – *Lensing and the internal structure of early-type galaxies*

10:00 – 10:20 B. Dullo (CT) – *Central stellar mass deficits of early-type galaxies*

10:20 – 10:40 R.-S. Remus (CT) – *The dark halo – spheroid conspiracy and the origin and evolution of elliptical galaxies*

10:40 – 11:10 Coffee Break

11:10 – 11:30 P. Perez-Gonzalez (CT) – *Reconstructing the formation of massive galaxies from their SHARDS*

11:30 – 11:50 G. Barro (CT) – *Live fast, die small: the progenitors of compact quiescent galaxies at $z \sim 2$*

11:50 – 12:10 S. Belli (CT) – *Keck spectroscopy and dynamical masses for a large sample of $1 < z < 1.6$ passive red galaxies*

12:10 – 12:30 P. Saracco (CT) – *Discerning the formation from the evolution in elliptical galaxies*

12:30 – 14:30 Lunch

14:30 – 14:50 V. Strazzullo (CT) – *Stellar populations and morphologies of very distant cluster galaxies: a study in Cl J1449+0856 at $z = 2$*

14:50 – 15:10 M. Huertas-Company (CT) – *The impact of environment on the structural evolution of massive early-type galaxies*

15:10 – 15:40 P. Hopkins (KT) – *The formation of early-type galaxies*

15:40 – 16:10 Coffee Break

16:10 – 16:35 T. Lisker (IT) – *The structure of early-type dwarf galaxies*

16:35 – 16:55 J. Janz (CT) – *On the multi-component structures of low-mass galaxies in the Local Universe*

16:55 – 17:15 R. Sánchez-Janssen (CT) – *The intrinsic shape of dwarf spheroidals in the Virgo cluster*

17:15 – 17:40 R. Muñoz (IT) – *The structural properties of Milky Way dwarf galaxies*

17:40 – 18:00 R. Smith (CT) – *The substantial influence of ram pressure on tidal dwarf galaxies*

Wednesday

Session: Structure and Morphology of Disc Galaxies

09:00 – 09:30 V. Debattista (KT) – *Secular evolution of disc galaxies*

09:30 – 09:55 E. D’Onghia (IT) – *Spiral structure formation in disc galaxies*

09:55 – 10:15 R. Sorba (CT) – *Galaxy stellar mass estimation through pixel-by-pixel SED fitting: the whole is not equal to the sum of the parts*

10:15 – 10:35 M. Verheijen (CT) – *Mass models from decomposing extended galaxy rotation curves provided by the next generation of HI 21cm imaging surveys*

10:35 – 10:55 A. Bouquin (CT) – *Environmental and morphological-type segregation on the evolution of galaxies out of the blue sequence*

10:55 – 11:25 Coffee Break

11:25 – 11:50 A. Graham (IT) – *Galaxy bulges and their SMBHs*

11:50 – 12:10 J. Mendez-Abreu (CT) – *Deconstructing bulge types using the CALIFA survey*

12:10 – 12:30 R. Läsker (CT) – *Effects of data quality and decomposition technique on bulge parameters and the $M_{bh} - L_{bul}$ relation in the NIR*

12:30 – 12:50 M. Cisternas (CT) – *Underneath the monster: Quasar host galaxies from deep SDSS Stripe 82 imaging*

15:00 – 18:00 Visit to Undurraga Vineyard (Buses leave ESO office at 14:00)

Thursday

Session: Structure and Morphology of Disc Galaxies

09:00 – 09:30 S. Courteau (KT) – *Scaling relations of disc galaxies*

09:30 – 10:00 I. Trujillo (KT) – *The outer structure of galaxy discs*

10:00 – 10:20 T. Kim (CT) – *Unveiling the structure of barred galaxies with the S4G*

10:20 – 10:50 Coffee Break

10:50 – 11:15 P. Yoachim (IT) – *The structure, kinematics and stellar populations of thick discs*

11:15 – 11:35 D. Streich (CT) – *Age resolved stellar populations in galaxy disks*

11:35 – 11:55 I. Minchev (CT) – *Formation of thick discs in numerical simulations*

11:55 – 12:20 R. de Jong (IT) – *The stellar haloes of disc galaxies*

12:20 – 14:20 Lunch

14:20 – 14:45 A. Aguerri (IT) – *The bar fraction in the Local Universe*

14:45 – 15:10 K. Sheth (IT) – *Redshift evolution of the bar fraction*

15:10 – 15:35 E. Laurikainen (IT) – *The structure of barred galaxies*

15:35 – 16:05 Coffee Break

16:05 – 16:25 D. Gadotti (CT) – *Evidence for secular evolution of structural parameters in barred galaxies*

16:25 – 16:45 J.C. Muñoz-Mateos (CT) – *The impact of bars on disk breaks as probed by S4G*

16:45 – 17:05 E. Cheung (CT) – *Galaxy Zoo: observing secular evolution through bars*

17:05 – 17:35 L. Athanassoula (KT) – *The formation and evolution of bars*

17:35 – 17:55 F. Iannuzzi (CT) – *Extracting kinematic quantities out of state-of-the-art hydro simulations of isolated galaxies*

21:00 – 00:00 Conference Dinner – La Casa Vieja (Buses leave ESO office at 20:15)

Friday

Session: Structure of the Milky Way

10:00 – 10:30 J. Bland-Hawthorn (KT) – *The Milky Way as a disc galaxy*

10:30 – 10:50 B. Conn (CT) – *PanSTARRS and the Milky Way: constructing the Milky Way density profile utilising the entire PanSTARRS dataset*

10:50 – 11:10 D. Minnitti (CT) – *Milky Way Structure from the VVV Survey*

11:10 – 11:40 Coffee Break

Session: Tools and Analysis Methods

11:40 – 12:10 L. Simard (KT) – *Structural decomposition in large galaxy surveys*

12:10 – 12:30 B. Häussler (CT) – *Examining the morphological properties of GAMA galaxies using MegaMorph*

12:30 – 14:30 Lunch

14:30 – 14:50 L. Kelvin (CT) – *The division of the local galaxy stellar mass function by type and structure*

14:50 – 15:10 P. Erwin (CT) – *Imfit: A fast, flexible new galaxy image-fitting program*

15:10 – 15:30 M. Vika (CT) – *Separating early-type (Sa/S0/E) galaxies in large surveys*

15:30 – 16:00 Coffee Break

16:00 – 16:20 A. Charbonnier (CT) – *Galaxy morphology in large surveys: using SExtractor and PSFex*

16:20 – 16:40 S. Bamford (CT) – *Measuring messy galaxies using a non-parametric component*

16:40 – 17:30 Conference Summary and Discussion