

THE LIFE AND DEATH OF STAR-FORMING GALAXIES - PROGRAM

Invited reviews: 23+7 min - Contributed talks: 15+5 min - Poster sparklers: 2min

Monday March 18

8:00 – Registration opens

9:00 – Welcome and Housekeeping

Session I: Star formation efficiency

Chair: Sabine Bellstedt

9:20 – **Blakesley Burkhart** – What sets the star formation efficiency of galaxies? [invited review]

9:50 – **Erica Nelson** – The regulation of star formation [invited review]

10:20 – **Poster sparklers** [Fiona Audcent-Ross, Igor Chilingarian, Carlos Espinosa, Yifei Jin, Anishya Harshan, Carlos Lopez-Coba, Mahdiah Navabi]

10:40 – Coffee Break

11:10 – **Rebecca McElroy** – PHANGS: star formation and quenching across galaxy disks seen by MUSE and ALMA

11:30 – **Eric Emsellem** – A dynamic view at star forming disks with PHANGS

11:50 – **Christopher Faesi** – The interplay between galaxy environment and cloud-scale star formation: The high-resolution view from PHANGS

12:10 – **Jorge Barrera-Ballesteros** – SDSS-IV MaNGA: Testing the local regulation of star formation

12:30 – Lunch

Chair: Boris Haeussler

14:00 – **Cecilia Bacchini** – Volumetric star formation laws of disc galaxies

14:20 – **Chelsea Sharon** – The effects of star formation and gas tracers on the spatially resolved Schmidt-Kennicutt relation at high redshift

14:40 – **Sambit Roychowdhury** – Empirical evidence for feedback-regulated star formation in dwarf galaxies

15:00 – **Florent Renaud** – Star formation efficiency: intrinsic evolution versus environmental diversity

15:20 – Coffee Break

15:50 – **Paula Calderon-Castillo** – Isolated Merging Systems: A new public catalogue, and impacts on star formation

16:10 – **Chiara Circosta** – The impact of active galactic nuclei on the life of $z \sim 2$ star-forming galaxies

16:30 – **Annagrazia Puglisi** – The extension of the cold gas in $z > 1$ galaxies as seen with ALMA

16:50 – **Anshu Gupta** - MOSEL survey: Kinematics of star-forming galaxies at $z \sim 3.0$

17:10 – End of day 1

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Tuesday March 19

Chair: Sandro Tacchella

9:00 – **Adam Schaefer** – How do galaxy environments and morphology affect the gas-regulation of star formation?

9:20 – **Toby Brown** – External processes regulating the life and death of star-forming galaxies

9:40 – **Alice Concas** – Environmental effect on gas reservoir and star-formation activity

10:00 – **Adam Stevens** – The relative effects of environment on star formation and HI

10:20 – **Caroline Straatman** – Dynamical masses at $z \sim 1$ with the LEGA-C survey

10:40 – Coffee Break

11:10 – **Discussion** [Barbara Catinella & Brent Groves]

Session II: The role of bulges on star formation

Chair: Nell Byler

11:50 – **Freeke van de Voort** – Do bulges affect star formation? A theoretical perspective [invited review]

12:20 – **Poster sparklers** [Hosein Hashemi, Preetish Mishra]

12:30 – Lunch

14:00 – **Francesco Belfiore** – Galaxy subcomponents in integral field spectroscopy surveys [invited review]

14:30 – **Jindra Gensior** – Heart of Darkness – How galactic dynamics suppress star formation in galaxy spheroids

14:50 – **Shuhei Koyama** – Do galaxy morphologies really affect the efficiency of star formation during the phase of galaxy transition?

15:10 – **Robin Cook** – Is there a causal link between cold gas reservoirs and morphology in galaxies?

15:30 – Coffee Break

16:00 – **Timothy Davis** – Parsec scale views of the molecular gas in bulges with WISDOM

16:20 – **Amelia Fraser-McKelvie** – The formation sequence of S0 galaxies: a tale of two populations

16:40 – **Keunho Kim** – Galaxy structure, stellar populations, and star formation quenching at $0.6 < z < 1.2$

17:00 – **Kalina Nedkova** – The evolution of the stellar mass-size relation for star forming galaxies and their components

17:20 – **Stefania Barsanti** – The SAMI Galaxy Survey: disentangle bulge and disk properties of cluster galaxies

17:40 – End of day 2

Invited reviews: 23+7 min - Contributed talks: 15+5 min - Poster sparklers: 2min

WEDNESDAY MARCH 20

Chair: Rebecca McElroy

9:00 – **Maurilio Pannella** – A further look into quenching: tearing apart the Main Sequence into its bulge, disk and gas content

9:20 – **Nic Scott** – The influence of galaxy morphology, shape and structure on the mean stellar population age and metallicity

9:40 – **Steven Gillman** – The angular momentum distribution in high redshift galaxies

10:00 – **Sarah Leslie** – Specific star formation rates of galaxies in the COSMOS field and morphological dependence out to $z \sim 1.5$

10:20 – Coffee Break

10:50 – **Discussion** [Richard McDermid and Danail Obreschkow]

Session III: Star formation histories and progenitor bias

Chair: Toby Brown

11:30 – **Louis Abramson** – From apples to orange juice: the challenge of inferring galaxy biographies from single epoch snapshots [invited review]

12:00 – **Joanna Woo** – The Roles of Progenitor Bias and Bulge Formation in the Evolution of the Galaxy Population [invited review]

12:30 – **Poster sparklers** [Jason Glenn, Kirill Grishin]

12:40 – Lunch

14:10 – **Nell Byler** – Using resolved stellar populations to improve the recovery of star formation histories from galaxy spectra

14:30 – **Mederic Boquien** – The challenge of measuring star formation in galaxies

14:50 – **Adam Watts** – Constraining the initial mass function with optical HST observations of resolved stellar populations in the outer disc of DDO 154

15:10 – **Hector Javier Ibarra Mendel** – Optical integral field spectroscopy observations applied to simulated galaxies. I. Testing the fossil record method

15:30 – Coffee Break

End of day 3 (free afternoon)

Thursday March 21

Chair: Sarah Leslie

9:00 – **Sandro Tacchella** – Stochastic modelling of star-formation histories: decoding the scatter of the star-forming main sequence

9:20 – **Ruth Digby** – Dwarf galaxy star formation histories: APOSTLE, the Local Group, and the effects of photometric depth

9:40 – **Evelyn Johnston** – Disentangling the star-formation histories of galaxy components in IFU data

10:00 – **Allison Strom** – Rethinking metallicity: the quest to measure galaxy abundances in the early universe

10:20 – **Martina Donnari** – The star formation activity of IllustrisTNG galaxies: main sequence, quenching, environmental effects and systematics

10:40 – Coffee Break

11:10 – **Adriano Poci** – The Dynamical and Chemical History of NGC 3115

11:30 – **Discussion** [Luca Cortese & Trevor Mendel]

Session IV: Life in the transition region

Chair: Jason Glenn

12:10 – **Samir Salim** – Quiet life in the green valley [invited review]

12:40 – Lunch

14:10 – **Kate Rowlands** – What can post-starburst galaxies tell us about life in the transition region? [invited review]

14:40 – **Poster sparklers** [Anton Afanasiev, Douglas Brambila, Garima Chauhan, Boris Haeussler, Emily Wisnioski]

14:50 – **Steven Janowiecki** – xGASS: The diversity of cold gas content in galaxies below the star forming main sequence

15:10 – **Aaron Wilkinson** – From starburst to quiescence: post-starburst galaxies and their large-scale clustering over cosmic time

15:30 – Coffee Break

16:00 – **Benedetta Vulcani** – The many faces of galaxies in transition in the local universe

16:20 – **Alessandro Boselli** – VESTIGE: A Virgo Environmental Survey Tracing Ionised Gas Emission

16:40 – **Scott Croom** – Environmentally driven quenching and morphological transformation as seen by SAMI

17:00 – **Laura Prichard** – A massive young cluster that rapidly triggered and quenched star formation

17:10 – **Rory Smith** – The physical properties of SDSS satellite galaxies in projected phase-space

17:30 – End of day 4

19:00 – Conference dinner

Friday March 22

Chair: Alice Concas

9:20 – **Christopher Martin** – Quenching or Bursting: Mapping and Understanding Star Formation Histories in Transition Galaxies with Star Formation Acceleration

9:40 – **Camila de Sa Freitas** – Quenching vs. bursting as a function of galaxy morphology

10:00 – **Ruby Wright** – Quenching timescales of galaxies in the EAGLE simulations

10:20 – **Tjitske Starkenburg** – The populations of star-forming and quiescent galaxies

10:40 – Coffee Break

11:10 – **Bruno Henriques** – Understanding how massive galaxies quench

11:30 – **Jacob Crossett** – What drives a rapid quenching of star formation in transitioning galaxies?

11:50 – **Kexin Guo** – The roles of AGN and dynamical processes in star formation quenching in nearby disk

12:10 – **David Maltby** – High-velocity outflows in massive post-starburst galaxies at $z > 1$: evidence for a feedback process in transitional galaxies

12:30 – Lunch

Chair: Lister Staveley-Smith

14:00 – **Ken-ichi Tadaki** – The clumpy, gravitationally unstable gas disk of the most massive star-forming galaxy at $z=4$

14:20 – **Mina Pak** – The stellar populations of nine passive spirals from the CALIFA survey

14:40 – **Discussion** [Luke Davies & Ivy Wong]

15:20 – **Conference Summary:** Lars Hernquist & Emily Wisnioski

15:50 – End of conference