

# Oral Programme

Plenary talks are 25 minutes plus discussion

Talks in parallel sessions are 15 minutes plus discussion

## Sunday, 17 July

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6:30 pm Registration desk opens at Calman Learning Centre

7:00 – 9:00 Welcome Reception at Calman Learning Centre

## Monday, 18 July

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### Morning: Plenary Session

*Galaxy Formation Across Cosmic Time (Sir Arnold Wolfendale Lecture Theatre)*

Chair: Carlos Frenk

9:00 – 9:15 Welcome from Prof Chris Higgins, Vice-Chancellor of Durham University

9:15 – 9:40	Rob Kennicutt	Galaxy-wide star formation processes
9:45 – 10:10	Simon White	The formation and evolution of the galaxy population
10:15 – 10:40	G. Kauffmann	Clues to galaxy formation from local populations

10:45 – 11:30 Coffee Break and Poster Viewing

11:30 – 11:55	Simon Lilly	Late galaxy evolution ( $z < 2$ )
12:00 – 12:25	David Elbaz	Star formation at intermediate redshift
12:30 – 12:55	Joop Schaye	SPH simulations of the formation and evolution of galaxies

1:00 – 2:30 Lunch at Collingwood College

### Afternoon: Parallel Sessions

*Galactic Structure and Evolution (Sir Arnold Wolfendale Lecture Theatre)*

Chair: Duncan Forbes

2:30 – 2:45	Sara Ellison	Gas flows in galaxies: mergers versus bars
2:50 – 3:05	P. Sanchez-Blazquez	Quantifying the mixing due to bars
3:10 – 3:25	A. Aragon-Salamanca	Transforming spirals into S0s
3:30 – 3:45	Andrew Pontzen	Flattening dark matter cusps with supernova feedback: a physical model
3:50 – 4:05	A.-M. Weijmans	Mapping dark and stellar haloes with integral-field spectrography

4:10 – 4:55 Coffee Break and Poster Viewing

4:55 – 5:10	Joel Primack	The Bolshoi cosmological simulations and their implications
5:15 – 5:30	Mike Hudson	Galaxy evolution from weak lensing with CFHTLenS
5:35 – 5:50	Nelson Padilla	Clustering and number density selection of high- $z$ galaxy descendants
5:55 – 6:10	Alexandre Vazdekis	Alpha-enhanced stellar populations models for studying massive galaxies

*Mass Assembly and Galaxy Growth (Rosemary Cramp Lecture Theatre)*

Chair: Peder Norberg

2:30 – 2:45	Aaron Robotham	The GAMA Galaxy Group Catalogue: Probing the Universe one halo at a time
2:50 – 3:05	Yingjie Peng	The simplicity of galaxy evolution and the environment quenching in SDSS
3:10 – 3:25	Jeremy Tinker	Are galaxy growth and halo growth correlated?
3:30 – 3:45	Jon Loveday	Galaxy luminosity function: dependence on halo mass
3:50 – 4:05	Qi Guo	Environmental dependence on Herschel-ATLAS galaxies

4:10 – 4:55 Coffee Break and Poster Viewing

4:55 – 5:10	Benedetta Vulcani	The evolution of the galaxy mass assembly and star formation activity from $z=1$ to $z=0$ as a function of environment
5:15 – 5:30	Tomer Tal	Direct observations of the evolving group luminosity function of massive red galaxies since $z \sim 0.7$
5:35 – 5:50	Marijn Franx	The emergence of the red sequence
5:55 – 6:10	David Gilbank	From dwarfs to giants: the history of star formation since $z \sim 1$

6:30 – 7:00 Showing of 3D movie "Cosmic Origins" in Dawson Building Lecture Theatre (D110)

7:00 – 9:00 Football game at Maiden Castle Sports Centre

Tuesday, 19 July

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**Morning: Plenary Session**

*Local Group and Local Galaxies (Sir Arnold Wolfendale Lecture Theatre)*

*Chair: Nick Kaiser*

9:00 - 9:25	Amina Helmi	Clues to galaxy formation from the Milky Way and Local Group perspective
9:30 - 9:55	Carlos Frenk	The satellites of the Milky Way as a probe of the nature of dark matter
10:00 - 10:25	Hans-Walter Rix	Dissecting the Milky Way's stellar disks
10:30 - 10:55	Francoise Combes	Secular evolution of galaxies

11:00 - 11:45 *Coffee Break and Poster Viewing*

11:45 - 12:45 | Poster session 1 | Short presentations for poster groups 1-4

12:45 - 2:15 *Lunch at Collingwood College*

**Afternoon: Parallel Sessions**

*Local Group (Sir Arnold Wolfendale Lecture Theatre)*

*Chair: Shaun Cole*

2:15 - 2:30	Andrew Cooper	Galactic stellar haloes in the CDM model
2:35 - 2:50	D. Martinez Delgado	Stellar tidal streams in nearby galaxies: mapping the minor merger rate in the local Universe with small telescopes
2:55 - 3:10	Elena D'Onghia	Substructure depletion in the Milky Way halo by the disk
3:15 - 3:30	Chiaki Kobayashi	Chemodynamical simulations of the Milky Way Galaxy
3:35 - 3:50	Gurtina Besla	The implications of a first infall scenario on the star formation histories and kinematics of the Magellanic Clouds

3:55 - 4:40 *Coffee Break and Poster Viewing*

4:40 - 4:55	S. Okamoto	The stellar populations of ultra faint dwarf galaxies
5:00 - 5:15	Nicolas Martin	Insights on the Andromeda satellite system: a deep view of the faintest of galaxies and what they can tell us about their host
5:20 - 5:35	Jorge Penarrubia	Measuring the distribution of dark matter in dwarf spheroidal galaxies
5:40 - 5:55	R. Kuzio de Naray	LSB galaxies and their dark matter halos

*Star Formation and Gas (Rosemary Cramp Lecture Theatre)*

*Chair: Nicole Nesvadba*

2:15 - 2:30	Marc Verheijen	Gas in galaxies - an HI perspective
2:35 - 2:50	Barbara Catinella	Cold gas in massive galaxies: Results from the GALEX Arecibo SDSS Survey
2:55 - 3:10	Amelie Saintonge	The non-universality of the molecular gas depletion timescale in massive galaxies
3:15 - 3:30	Jim Geach	The evolution of the molecular gas fraction of star-forming galaxies
3:35 - 3:50	Claudia Lagos	Cosmic evolution of star formation and the gas content of galaxies

3:55 - 4:40 *Coffee Break and Poster Viewing*

4:40 - 4:55	Luca Cortese	The role of the cluster environment on the star formation cycle of galaxies
5:00 - 5:15	Tim Rawle	Exploring star formation in clusters with the Herschel Space Observatory
5:20 - 5:35	Kim-Vy Tran	Star Formation in galaxy clusters over the past 10 billion years
5:40 - 5:55	Jennifer Lotz	Caught in the act - the assembly of massive cluster galaxies at $z=1.62$

7:30 - 10:30 *Prince Bishop Boat Cruise and Dinner (ticket holders only)*

Wednesday, 20 July

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**Morning: Plenary Session**

*Galaxy Evolution and Feedback (Sir Arnold Wolfendale Lecture Theatre)*

Chair: *Richard Bower*

9:00 - 9:25	Lucio Mayer	SPH simulations of the formation of individual galaxies
9:30 - 9:55	Reinhard Genzel	The middle ages of galaxy evolution ( $z=2-3$ )
10:00 - 10:25	Linda Tacconi	Atomic and molecular gas in galaxies

10:30 - 11:15 *Coffee Break and Poster Viewing*

11:15 - 11:40	David Weinberg	Connecting galaxies to dark matter halos: HOD, CLF, SHAM, and all that
11:45 - 12:10	Brian McNamara	Supermassive black holes and mechanical feedback
12:15 - 12:40	Ian McCarthy	The intracluster/intragroup medium

12:45 - 2:15 *Lunch at Collingwood College*

2:10 *Conference photo at Collingwood College*

**Afternoon: Parallel Sessions**

*Structure of Early-Type Galaxies (Sir Arnold Wolfendale Lecture Theatre)*

Chair: *Claudia Mendes de Oliveira*

2:30 - 2:45	Matthew Colless	Structure, dynamics and stellar populations in early-type galaxies
2:50 - 3:05	Eric Emsellem	The stellar angular momentum of nearby early-type galaxies: a paradigm shift
3:10 - 3:25	Michele Cappellari	A new look at galaxy scaling relations
3:30 - 3:45	Simona Vegetti	Quantifying mass substructure in early-type galaxies

*Cosmological Growth of Disk Galaxies (Rosemary Cramp Lecture Theatre)*

Chair: *Hanni Lux*

2:30 - 2:45	Laura Sales	The rise and fall of disks in cosmological simulations
2:50 - 3:05	Lauren MacArthur	Spiral galaxy formation based on detailed spectroscopic studies
3:10 - 3:25	Sarah Miller	The assembly history of disk galaxies: Evolution in the Tully-Fisher relation to $z\sim 1.3$
3:30 - 3:45	Arjen van der Wel	The majority of compact massive galaxies at $z\sim 2$ are disk dominated

3:50 - 4:30 *Coffee Break and Poster Viewing*

6:30 *Drinks Reception and Conference Dinner at St Aidan's College*

## Thursday, 21 July

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### Morning: Plenary Session

*Flows In and Out of Galaxies (Sir Arnold Wolfendale Lecture Theatre)*

Chair: Darren Croton

9:00 - 9:25	Crystal Martin	Gas outflow and inflow in $z < 1.5$ galaxies
9:30 - 9:55	Chuck Steidel	Gas-phase outflows and accretion during the peak epoch of galaxy formation
10:00 - 10:25	Xavier Prochaska	The IGM-galaxy connection
10:30 - 10:55	Romeel Davé	The metal enrichment of the intergalactic medium

11:00 - 11:45 *Coffee Break and Poster Viewing*

11:45 - 12:45 | Poster session 2 | Short presentations for poster groups 5-7

12:45 - 2:15 *Lunch at Collingwood College*

### Afternoon: Parallel Sessions

*Evolution of Star-Forming Galaxies from the Peak Epoch (Sir Arnold Wolfendale Lecture Theatre)*

Chair: Nina Hatch

2:15 - 2:30	Cedric Lacey	A unified model of galaxy evolution in the IR and UV
2:35 - 2:50	Freeke van de Voort	What's causing the drop in the cosmic star formation rate below redshift 2?
2:55 - 3:10	Peter Thomas	The Millennium Gas Simulation
3:15 - 3:30	Julie Wardlow	A detailed study of infrared-luminous galaxies at high redshift

3:35 - 4:20 *Coffee Break and Poster Viewing*

4:20 - 4:35	Tadayuki Kodama	MAHALO-Subaru: Mapping star-formation at the peak epoch of galaxy formation
4:40 - 4:55	Karl Glazebrook	Turbulence and star-formation - chicken or egg?
5:00 - 5:15	N. Forster Schreiber	The growth of galaxies at $z \sim 2$ : Insights from resolved kinematics, morphologies, star formation, and metallicities
5:20 - 5:35	Pieter van Dokkum	3D-HST: a large spectroscopic survey of the $z=1-3$ Universe with HST
5:40 - 5:55	Giovanni Cresci	AMAZE and LSD: Metallicity evolution of galaxies in the early Universe

*Gas in Galaxies and Halos (Rosemary Cramp Lecture Theatre)*

Chair: Neal Katz

2:15 - 2:30	Gwen Rudie	Mapping the circumgalactic medium of high-redshift galaxies
2:35 - 2:50	Martin Haehnelt	Probing galactic winds from DLA/LLS host galaxies with spatially extended Lyman-alpha emission
2:55 - 3:10	B. Oppenheimer	How outflows <i>feed</i> galaxy growth
3:15 - 3:30	Moire Prescott	Caught in the Cosmic Web: Testing theoretical models of giant Lya nebulae

3:35 - 4:20 *Coffee Break and Poster Viewing*

4:20 - 4:35	Robert Crain	Theoretical and observational insight into the hot side of galaxy formation
4:40 - 4:55	Marc Sarzi	The origin of the X-ray halos of early-type galaxies
5:00 - 5:15	Nikolaos Fanidakis	Unravelling the properties of active galaxies in hierarchical cosmologies
5:20 - 5:35	Dale Kocevski	Investigating the AGN - merger connection at $z \sim 2$ with CANDELS
5:40 - 5:55	Gregory Novak	Black hole fueling and AGN feedback: Toward a deeper physical understanding

8:30 - 11:00 *"Open-mic" music night at Collingwood College Bar*

Friday, 22 July

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**Morning: Plenary Session**

*Black Holes & The High-z Frontier (Sir Arnold Wolfendale Lecture Theatre)*

Chair: *Karina Caputi*

9:00 - 9:25	Tim Heckman	The galaxy-AGN connection in the local Universe
9:30 - 9:55	David Alexander	AGN in the distant galaxy population
10:00 - 10:25	Philip Hopkins	The role of mergers and AGN in the form & evolution of the galaxy population
10:30 - 11:25	<i>Coffee Break and Poster Viewing</i>	
11:25 - 11:40	Daniel Mortlock	The discovery of a luminous redshift 7.1 quasar
11:45 - 12:10	Tom Abel	The first stars and black holes
12:15 - 12:40	Rychard Bouwens	The first galaxies ( $z > 5$ )
12:45 - 2:15	<i>Lunch at Collingwood College</i>	

**Afternoon: Parallel Sessions**

*The First Galaxies (Sir Arnold Wolfendale Lecture Theatre)*

Chair: *Jeffrey Newman*

2:15 - 2:30	John Wise	From the first stars to dwarf galaxies
2:35 - 2:50	James Dunlop	Galaxies at $z = 6 - 10$ , and cosmic reionization
2:55 - 3:10	Casey Papovich	The star formation histories of distant galaxies and implications for gas accretion

*Black Hole-Galaxy Co-Evolution (Rosemary Cramp Lecture Theatre)*

Chair: *Laura Trouille*

2:15 - 2:30	James Mullaney	The Herschel-GOODS view of the build up of SMBH and galaxy mass since $z \sim 3$
2:35 - 2:50	V. N. Bennert	The black-hole mass scaling relations of active galaxies: From the local Universe out to a lookback time of 10 Gyrs
2:55 - 3:10	Kevin Schawinski	HST-WFC3/IR reveals the $z \sim 2$ Universe: secular black hole growth and first glimpses of seed black holes

*Conference Summary (Sir Arnold Wolfendale Lecture Theatre)*

Chair: *Simon White*

3:20 - 4:30	Charlie Conroy, Sara Ellison, Ryan Hickox
4:30	<i>Conference ends</i>