

# Small Galaxies, Cosmic Questions

29 July 2019  
MONDAY

8:00 — 8:50 AM	Registration
9:00 am	Welcome
9:10 am	<b>Session 1 (Chair: Alis Deason)</b>
Alyson Brooks (20+5 min)	Darkness on the edge of town: Exploring simulated ultra-faint dwarf galaxies
Martin Rey (12+3 min)	The dynamical diversity of ultra-faint dwarfs galaxies
Azi Fattahi (12+3 min)	Missing dwarf galaxies around the Local Group
Vasily Belokurov (20+5 min)	Antlia 2, the hidden giant
10:30 am	Coffee
11:00 am	<b>Session 2 (Chair: Andrew Pontzen)</b>
James Bullock (12+3 min)	How low does it go? The threshold halo mass for galaxy formation.
Andrew Graus (20+5 min)	How low does it go? Too few Galactic satellites with standard reionization quenching
Anna Nierenberg (12+3 min)	Measuring the low mass end of the halo mass function with narrow-line lensing
Alejandro Benitez-Llambay (12+3 min)	Probing LCDM with "dark" galaxies
Calvin Sykes (12+3 min)	Dwarf galaxies on two scales: Fluorescent emission from local-Universe minihaloes, and statistical properties of the galaxy-HI absorber connection at $z=3$
<b>Flash Talks:</b> Luca Beale, Paul Bennet, Katie Chamberlain, Anirudh Chiti, Richard D'Souza, Michele De Leo, Andres del Pino	
12:30 pm	Lunch
2:00 pm	<b>Session 3 (Chair: Denis Erkal)</b>
Jessie Hirtenstein (12+3 min)	Dynamical Effects of Stellar Feedback in Low Mass Galaxies at $z \sim 2$
Justin Read (12+3 min)	Dark Matter Heats up in Dwarf Galaxies
Anna Genina (12+3 min)	The distinct stellar metallicity populations in simulated Local Group dwarfs
Stacy Kim (12+3 min)	Completeness Corrections and the Small Scale Issues of the Milky Way
Mark Lovell (12+3 min)	Star formation in alternative dark matter dwarfs: then and now
<b>Flash Talks:</b> Dhruba Dutta Chowdhury, F. Sara Eftekhari, Christoph Engler, Raphael Errani, Ivanna Escala, Catherine Fielder, Tobias Fritz	
3:30 pm	Coffee
4:00 pm	<b>Session 4 (Chair: Gurtina Besla)</b>
Oliver Newton (12+3 min)	Robust constraints on the mass of the thermal relic warm dark matter particle
Nitya Kallivayalil (20+5 min)	The Missing Satellites of the Magellanic Clouds: Testing LCDM Predictions on Small Scales
Ekta Patel (12+3 min)	Satellites of Satellites: LCDM Predictions for the Satellite Galaxy Population of M33

30 July 2019  
TUESDAY

9:00 am	<b>Discussion Session</b> (Gurtina Besla, Alis Deason, Andrew Pontzen)
9:30 am	<b>Session 5 (Chair: Betsey Adams)</b>
Kareem El-Badry (12+3 min)	Gas kinematics of simulated dwarfs: Probes of feedback and star formation
Shobita Satyapal (12+3 min)	Accretion Activity in Dwarf Galaxies: Key Diagnostic Tools
Christina Manzano-King (12+3 min)	AGN feedback in Dwarf Galaxies
Sophie Koudmani (12+3 min)	The impact of AGN-driven outflows on simulated dwarf galaxies
10:30 am	Coffee
11:00 am	<b>Session 6 (Chair: Josh Simon)</b>
Evan Kirby (12+3 min)	The Physics of Type Ia Supernovae Revealed in Dwarf Galaxies
Michelle Collins (20+5 min)	Fluffy, diffuse galaxies
Anna Wright (12+3 min)	Low Surface Brightness Galaxies in the (Simulated) Wild
<b>Flash Talks:</b> Marla Geha, Alexandra Gregory, Geraint Lewis, Zhaozhou Li, Nicolas Longeard, Pol Massana	
<b>Flash Talks:</b> Matthew Orkney, Sanjaya Paudel, Rhys Poulton, Janet Preston, Ragadeepika Pucha, Daniella Roberts	
12:25 pm	Lunch
1:55 pm	<b>Session 7 (Chair: James Bullock)</b>
Louis Strigari (20+5 min)	Dark matter properties of dwarf galaxies in the Gaia era
Laura Chang (12+3 min)	Effect of binaries on dark matter estimates in dwarf galaxies
Marla Geha (20+5 min)	The SAGA Project: Satellite Galaxy Populations Around Milky Way-like Galaxies
Davide Massari (12+3 min)	Stellar 3D kinematics in dwarf spheroidal galaxies with Gaia+HST
<b>Flash-talks:</b> Elena Sacchi, Matthew Smith, Salvatore Taibi, Guillaume Thomas, David Williamson, Zhen Yuan	
3:30 pm	Coffee
4:00 pm	<b>Session 8 (Chair: Alyson Brooks)</b>
Giuliano Iorio (12+3 min)	The effect of tides on the Sculptor dSph
Raffaele Pascale (12+3 min)	Models based on distribution functions of dwarf spheroidal galaxies
Isabel Santos Santos (12+3 min)	Key diagnostics in the diversity of dwarf galaxy rotation curve shapes: baryons, dark matter or non-circular motions?
Kyle Oman (12+3 min)	The diversity of dwarf galaxy dark matter structure as traced using rotation curves

31 July 2019  
WEDNESDAY

9:00 am	<b>Session 9 (Chair: Evan Skillman)</b>
Tiffany Hsyu (12+3 min)	Searching for the Lowest Metallicity Galaxies
Kristen McQuinn (12+3 min)	What's Happening in the Smallest of Star-Forming Galaxies?
Bethan James (12+3 min)	Exploring Star-formation & Inhomogeneity in Pristine Environments: IFU Studies of Metal-Poor Dwarf Galaxies
Nimisha Kumari (12+3 min)	Chemical properties of Blue Compact Dwarf Galaxies: Local Analogues of High Redshift Galaxies
Claudia Scarlata (20+5 min)	Pushing the limits with extreme emission line galaxies
10:25 am	Coffee
10:55 am	<b>Session 10 (Chair: Risa Wechsler)</b>
Dan Stark (20+5 min)	Spectroscopy of Dwarf Galaxies at High Redshift
Danielle Berg (12+3 min)	Extreme UV Emission: Clues from Reionization-Era Analogs
Brian Siana (20+5 min)	Dwarf Galaxies in the Early Universe: Burstiness, Metals, Dust, and Ionizing Photon Production
Dawn Erb (20+5 min)	Small galaxies, big halos: Ly $\alpha$ emission in the CGM of low-mass galaxies at $z \sim 2$
Leopoldo Infante (12+3 min)	Lyman Alpha Galaxies in the Epoch of Reionization at $z \sim 7$
12:40 pm	Lunch
2:00 pm	Free Afternoon
7:00 pm	<b>Conference Dinner (Durham Castle)</b>

1 August 2019  
THURSDAY

9:00 am	<b>Discussion Session</b> (Michelle Collins, Ryan Cooke, Brian Siana)
9:30 am	<b>Session 11 (Chair: Kristen McQuinn)</b>
Adam Smercina (12+3 min)	A Lonely Giant: The Sparse Satellite Population of M94 Challenges Galaxy Formation
Sabrina Stierwalt (12+3 min)	Dwarf Galaxy Groups: A Unique Test of LCDM
Ana Hidalgo-Gamez (12+3 min)	Chemical abundances of coloured galaxies
Francesca Annibali (12+3 min)	SSH: the quest for observational evidence of the hierarchical formation process at the smallest galaxy scales
10:30 am	Coffee
11:00 am	<b>Session 12 (Chair: Michelle Collins)</b>
Clare Higgs (12+3 min)	Exploring Dwarfs around the Local Group with the Solo Survey
Betsey Adams (12+3 min)	The smallest gas-rich galaxies
Erik Tollerud (12+3 min)	Implications for Reionization of a Search for Local Group Dwarfs with HI and Optical: Is There a Missing dir Problem?
Sownak Bose (20+5 min)	Reionisation in the context of small-scale structure
Dan Weisz (20+5 min)	Connecting Local Group Dwarf Galaxies to Low-Mass Galaxies in the early Universe
12:35 pm	Lunch
2:05 pm	<b>Session 13 (Chair: Ryan Cooke)</b>
Josh Simon (12+3 min)	The Quenching of a Distant Milky Way Satellite
John Wise (20+5 min)	Galaxy Formation during the Epoch of Reionization
Louise Welsh (12+3 min)	A Window to the First Stars
Eise Starkenburg (20+5 min)	Signatures of the first stars in and from dwarf galaxies
3:25 pm	Coffee
3:55 pm	<b>Session 14 (Chair: Evan Kirby)</b>
Myoungwon Jeon (12+3 min)	Ultra-faint dwarf galaxy formation starting from the first stars
Anna Frebel (20+5 min)	Signatures of early chemical enrichment in dwarf galaxies
Alex Ji (20+5 min)	Chemical Enrichment in Ultra-faint Dwarf Galaxies

2 August 2019  
FRIDAY

9:00 am	<b>Session 15 (Chair: Nitya Kallivayalil)</b>
Andrew Wetzel (20+5 min)	Simulating Luminous and Dark Satellites in the Local Group
Marcel Pawlowski (12+3 min)	Can we solve the planes of satellites galaxies problem of cosmology by invoking special host halo properties or baryonic effects?
Shi Shao (12+3 min)	The Milky Way's plane of satellite galaxies
Tony Sohn (12+3 min)	Dynamical Histories of the Dwarf Elliptical Galaxies NGC 147 and 185
Alexander Riley (12+3 min)	The velocity anisotropy of the Milky Way satellite system
10:25 am	Coffee
10:55 am	<b>Session 16 (Chair: Andrew Wetzel)</b>
Marius Cautun (12+3 min)	The evolution of LMC-mass galaxies in the EAGLE simulation
Nico Garavito-Camargo (12+3 min)	The Stellar and Dark Matter Wake of the Milky Way Induced by the LMC
Christine Simpson (12+3 min)	Debris from dwarf satellites in the Auriga simulations
Ana Bonaca (20+5 min)	Dynamical evidence for a dark substructure in the Milky Way halo
Denis Erkal (12+3 min)	Is the GD-1 stream consistent with LCDM?
12:20 pm	Lunch
2:00 pm	<b>Session 17 (Chair: Marla Geha)</b>
Lydia Elias (12+3 min)	Stellar halos in Illustris: shedding light on the Milky Way and Enceladus
Chervin Laporte (12+3 min)	Footprints of the Sagittarius dwarf in the Galactic disc from the outer disc to the 6-D Gaia Volume.
Nora Shipp (12+3 min)	Stellar Streams in the Southern Sky
Ian Roederer (12+3 min)	Chemically Tagging Remnants of Accreted Low-mass Dwarf Galaxies Using r-process-enhanced Stars
Nathan Sandford (12+3 min)	Forecasting Dwarf Galaxy Evolution with Chemistry: How Good Can We Get?
Evan Skillman (12+3 min)	Chemical Abundances and the Evolution of Dwarf Galaxies
3:30 pm	Coffee
4:00 pm	<b>Session 18 (Chair: Alis Deason)</b>
Risa Wechsler (20+5 min)	The threshold of galaxy formation and the microphysics of dark matter from the tiniest galaxies
Carlos Frenk (20+5 min)	Dwarfs: The Giants of Cosmology
Alis Deason	Closing remarks
	End of Conference