

# DEX-XV: 15th Durham-Edinburgh eXtragalactic Workshop

## Monday 07 January 2019

**Registration + Tea and Coffee - Top floor (10:30-11:00)**

**Welcome - Conference room (11:00-11:15)**

- Presenters: BEST, Philip; ONORBE, Jose

**Galaxy Formation and Evolution I - Conference room (7 Jan 2019, 11:15-12:30)**

**Chair: Prof. Julie Wardlow**

time	title	presenter
11:15	A Window to the First Stars	WELSH, Louise
11:30	The Angular Momentum Distribution in High Redshift Galaxies	GILLMAN, Steven
11:45	Resolved spectroscopy of cluster galaxies at $z=1.4$	AMOS, Nicholas
12:00	The search for low- $z$ strong lensing early-type galaxies with MUSE	COLLIER, William

**Lunch - Top floor (12:30-13:30)**

**Galaxy Formation and Evolution II - Conference room (7 Jan 2019, 13:30-14:30)**

**Chair: Prof. Rita Tojeiro**

time	title	presenter
13:30	High resolution ALMA imaging of SMGs	GULLBERG, Bitten
13:45	AS2UDS survey: Multi-wavelength properties of sub-millimeter galaxies	DUDZEVICIUTE, Ugne
14:00	Predictions for the spatial extent of the dust continuum emission in $2 < z < 5$ star forming galaxies	COCHRANE, Rachel
14:15	Studying the circum-galactic medium at $z \sim 1$ using WFC3 grism spectroscopy	BIELBY, Richard

**Galaxy Formation and Evolution III - Conference room (7 Jan 2019, 14:30-15:00)**

**Chair: Dr. Jose Onorbe**

time	title	presenter
14:30	VIPERS: The quenching of star-formation in the colour-magnitude	MANZONI, Giorgio
14:36	Mapping the dark matter of a lenticular galaxy NGC 2974	YANG, Meng
14:42	The nature of the brightest submillimetre galaxies in the UDS field	BIRKIN, Jack
14:48	X-ray scaling relations in cosmological scale simulations	ROBSON, Dylan
14:54	The nature and evolution of distant SC4K Lyman-alpha emitters from $z \sim 6$ to $z \sim 2$	SANTOS, Sergio

**Galaxy Formation and Evolution/New Methods I - Conference room (7 Jan 2019, 15:30-16:30)****Chair: Prof. Martin Ward (TBC)**

time	title	presenter
15:30	Baryon-induced dark matter cores in the EAGLE simulations	BENITEZ-LLAMBAY, Alejandro
15:45	Modelling fluorescent H-alpha emission from 'dark' halos	SYKES, Calvin
16:00	FortesFit: Flexible SED fitting with a Bayesian backbone	ROSARIO, David
16:15	A low frequency view to the local radio AGN population: The most massive galaxies are always switched on	SABATER MONTES, Jose

**Galaxy Formation and Evolution/New Methods II - Conference room (7 Jan 2019, 16:30-16:54)****Chair: Dr. Teresita Suarez-Noguez**

time	title	presenter
16:30	Development of a mock galaxy catalogue for DESI survey validation	SAFONOVA, Sasha
16:36	Synthetic galaxies with chained deep learning models	MOEWS, Ben
16:42	Dynamical modelling in the cosmic web	DUCKWORTH, Chris
16:48	Modelling the Vast, Expanding Emptiness of the Cosmic Web	DEMCHENKO, Vasilij

**Dinner (19:00-21:00)**

## Tuesday 08 January 2019

### New Methods - Conference room (8 Jan 2019, 09:00-10:30)

**Chair: Prof. Shaun Cole (TBC)**

time	title	presenter
09:00	The Simba Simulations	DAVE, Romeel
09:15	A New Residual Distribution Hydrodynamics Solver for Galaxy Evolution Simulations	MORTON, Ben
09:30	Painting baryons on dark matter with deep generative models	TROESTER, Tilman
09:45	Optimising a spectroscopic training sample for photometric classification of supernovae with machine learning	CARRICK, Jonathan
10:00	Modelling nonlinear clustering in cosmologies beyond vanilla LCDM	CATANEO, Matteo
10:15	Redshift Space Distortion with different galaxy colour and group mass	HANG, Qianjun

### Tea and coffee - Top floor (10:30-11:00)

### Cosmology I - Conference room (8 Jan 2019, 11:00-12:00)

**Chair: Prof. Isobel Hook**

time	title	presenter
11:00	ShCDM: Cosmic acceleration from holographic information capacity	BUTCHER, Luke
11:15	Weak Lensing By Voids In Weak Lensing Maps	DAVIES, Chris
11:30	Probing the physical state of the high redshift intergalactic medium using cosmological simulations	SUAREZ NOGUEZ, Teresita
11:45	Cosmology with extragalactic proper motions	HALL, Alex

### Cosmology II - Conference room (8 Jan 2019, 12:00-12:30)

**Chair: Dr. Katerina Kraljic**

time	title	presenter
12:00	Emulating beyond $\Lambda$ CDM in a model-independent way	GIBLIN, Benjamin
12:06	GPU-accelerated radiation hydrodynamics simulations	DI PIETRO, Gennaro
12:12	Inter-Lagrangian Transfer: New Insights on Feedback from the SIMBA Simulations	BORROW, Joshua
12:18	A trajectories approach to gravity	LANE, Fran
12:24	Constraints on the mass of the thermal relic warm dark matter particle	NEWTON, Oliver

### Lunch - Top floor (12:30-13:30)

### Cosmology/AGN & Black Hole I - Conference room (8 Jan 2019, 13:30-14:30)

**Chair: Prof. Keith Horne**

time	title	presenter
13:30	Measuring the ISW effect in the cross-correlation of Planck with VST ATLAS LRGs	ANSARINEJAD, Behzad
13:45	Indications of modified gravity through strong lensed supernovae type Ia	BECKER, Christoph
14:00	Statistical synergy between LSST and Euclid	SCHUHMANN, Robert
14:15	Clustering analysis with SDSS-IV eBOSS quasars	ZARROUK, Pauline

**Cosmology/AGN & Black Hole II - Conference room (8 Jan 2019, 14:30-15:00)****Chair: Dr. Jose Onorbe**

time	title	presenter
14:30	Gravitational Interactions as Contributors to Supermassive Black Hole Growth	CRAIG, Jessica
14:36	Extended radio emission from AGN in a semi-analytic model	GRIFFIN, Andrew
14:42	Exploring the deeper radio properties of red quasars compared to typical quasars	FAWCETT, Vicky
14:48	Identifying Counterparts of Radio Galaxies in Ultra-Deep LOFAR Fields	KONDAPALLY, Rohit
14:54	The VST ATLAS Quasar Catalogue	ELTVEDT, Alice

**Tea and coffee - Top floor (15:00-15:30)****AGN & Black Hole - Conference room (8 Jan 2019, 15:30-16:45)****Chair: Dr. Nicholas Ross**

time	title	presenter
15:30	The Big Dipper: Results from spectroscopic monitoring of a hypervariable AGN	KYNOCH, Daniel
15:45	Observing Cold Accretion onto Supermassive Black Holes	ROSE, Tom
16:00	On the X-ray activity of typical and luminous Ly-alpha emitters from z~2 to z~6	CALHAU, Joao
16:15	Seeing AGN feedback in action with KMOS, SINFONI and ALMA	SCHOLTZ, Jan
16:30	The possible discovery of a new ultraluminous X-ray pulsar	SATHYAPRAKASH, Rajath

**Prizes for Best PhD Talks - Conference room (16:45-17:00)**