

DEX XXII Schedule

Contributed Talks are 12 minutes plus 3 minutes for questions.
Flash Talks are 5 minutes plus 1 minute for questions.
Spotlight Talks are 90 seconds

Thursday				
11:00	Coffee and Registration			
11:25	Welcome Talk (Ken Rice)			
	Session 1: Cosmology (Chair: Derek McLeod)			
11:30	Contributed Talk	Owen Jessop	Durham	Baryon-CDM Isocurvature Perturbations in Λ CDM: Implications for Galaxy Formation
11:45	Contributed Talk	Marcos Pellejero	Edinburgh	Cosmology from the DESI survey: Investigating the constraining power of small scales.
12:00	Contributed Talk	Carola Zanoletti	Newcastle	Principal Components for Model Agnostic Modified Gravity with Stage IV Surveys
12:15	Flash Talk	Benjamin Beauchesne	Durham	Multi-probe mass models of massive galaxy clusters
12:21	Flash Talk	Jade Piat	Edinburgh	Detecting the relativistic dipole in galaxy clustering with DESI
12:27	Flash Talk	Carolyn McDonald Mill	Newcastle	Taking the Weight Off: Model Misspecification in Stage IV Cosmology
12:33	Flash Talk	Hong-Gang Yang	Edinburgh	Galaxy assembly bias in cosmological hydrodynamical simulations
12:39	Flash Talk	Beth McCarthy Gould	Newcastle	1-point Statistics at All Scales
12:45	Spotlight Talks			
	1	Maximilian von Wietersheim-Kramsta	Durham	Forward-modelling the galaxy-halo connection: A parametric model for non-local stochastic galaxy bias
	2	Eske Pedersen	Newcastle	Photometric Choices for the Rubin Observatory
	3	Zane Lentz	Durham	Understanding and Correcting Instrumentation Biases in Euclid VIS for Stage-IV Cosmology
	4	Cameron Sharp	St Andrews	Extracting dark halo parameters from dynamical models combining stellar and gas kinematics
	5	Zhaoting Chen	Edinburgh	Towards cosmological inference with the SKAO: progress from MeerKLASS
	6	Nathaniel Woodcock	Durham	(title tbc)
13:00	Lunch			
	Session 2: Galaxy Formation (Chair: Harry Stephenson)			
14:00	Contributed Talk	Frey Liu	Edinburgh	Uncovering the Dust-Obscured Cosmic Star-Formation History back to $z \sim 7$ with JWST PRIMER and ALMA in COSMOS
14:15	Contributed Talk	Jess Doppel	Durham	The first billion years of star cluster formation with LYRA
14:30	Contributed Talk	Giulia Pruto	Edinburgh	The Hidden Neighbours of Neutral Oxygen Absorbers
14:45	Flash Talk	Elliot Scott	Newcastle	Augmenting Galaxy Catalogues in FLAMINGO using Machine Learning
14:51	Flash Talk	Xu Zhao	Durham	Evolution of the plane of faint satellite galaxies
14:57	Flash Talk	Evan Jones	Edinburgh	Stochastic Stellar Sampling and Population III Candidates
15:03	Flash Talk	Jake Howard	Durham	Beyond the Galaxy-Halo Connection
15:09	Flash Talk	Isaac Holst	Edinburgh	The Mystery of Little Red Dots

15:15	Spotlight Talks			
	1	Bjarki Björgvinsson	Durham	Getting to know the stellar clusters in NGC 1569
	2	Dirk Scholte	Edinburgh	Chemical evolution in DESI DR2: Discovery of the most metal poor galaxies to-date and local analogs to high-z galaxies
	3	Rion Glenn Nazareth	Newcastle	Estimating Galactic Magnetic Fields from Observable Inputs
	4	Alistair Pagan	Durham	Checking for a Pulse: A Comprehensive Search for Pulsating Ultra-luminous X-ray Sources
	5	Anna Genina	Edinburgh	Twist and turn: merger-induced large-scale gas inflow and the dynamical effect of Sagittarius as triggers of the distinct alpha-Fe sequences in the Milky Way
	6	Nandana Manoj	Durham	Characterizing the influence of Galaxy Morphology on Radio-AGN Activity.
	7	Ardiana Bushi	Edinburgh	The head-tail radio galaxy and revived fossil plasma in Abell 1775
	8	Pranavi Hiremath	Edinburgh	X-ray selected broad absorption line quasars in SDSS-V: BALs and non-BALs span the same range of X-ray properties
15:30	Coffee			
	Session 3: AGN (Chair: Matthew Temple)			
16:00	Contributed Talk	Ritika Raj	Durham	Investigating the morphology of the bent radio galaxy NGC6512
16:15	Contributed Talk	Houda Haidar	Newcastle	Going against the Grain: Dust survival in AGN driven outflows
16:30	Contributed Talk	Ciera Sargent	Durham	Striking identification of excess population of red quasars with steep radio spectral slopes: dust-enhanced AGN-driven shocks?
16:45	Contributed Talk	Daniel Hill	Newcastle	LLAMA: Revealing cold molecular gas structure and dynamics in nearby luminous AGN and matched inactive galaxies with ALMA
17:00	Flash Talk	Juan Hernandez Santisteban	St Andrews	Mapping the accretion disc of AGN at high redshifts in the LSST era
17:06	Flash Talk	Clara Marie Pennock	Edinburgh	A new way of characterising AGN observations through multidimensional luminosity functions in the X-ray and radio across redshifts
17:12	Flash Talk	Sahyadri Krishna	St Andrews	Neither orientation nor major mergers can explain the star-formation histories of Type-1 and Type-2 AGNs
17:18	Flash Talk	Marina Arnaudova	Edinburgh	WEAVE-LOFAR: Harnessing the Power of Low-Frequency Radio Observations Using Optical Spectroscopy
17:24	Flash Talk	Ann Njeri	Newcastle	Probing Faint Radio Activity in Radio-Quiet Quasars: Insights from the Quasar Feedback Survey.
17:30	End of Day			
19:00	Conference Dinner at the Playfair Library, Old College			

FRIDAY				
Session 4: <i>Galaxy Formation</i> (Chair: Juan Hernandez Santisteban)				
9:30	Contributed Talk	Isabel Santos-Santos	Durham	The missing satellites of the Milky Way
9:45	Contributed Talk	Nicholas Boardman	St Andrews	Beyond the fundamental metallicity relation: gas reservoirs regulate chemical enrichment, stellar concentration regulates gas reservoirs
10:00	Contributed Talk	Stephane Werner	Durham	Free-floating stars in the outskirts of proto-clusters of galaxies
10:15	Contributed Talk	Kai Wang	Durham	An EAGLE's View of Galaxy Size Evolution Across Cosmic Time
10:30	Flash Talk	Martyna Winiarska	Durham	The connection between stellar and dark bars in cosmological simulations
10:36	Flash Talk	Mishita Khurana	Edinburgh	From 1D to 3D: HI Asymmetries as Tracers of Galaxy Evolution in the Simba and Simba-C Simulations
10:42	Flash Talk	Vivienne Wild	St Andrews	Constraining star formation quenching mechanisms with precise colour distributions of galaxies
10:48	Flash Talk	Zoe Le Conte	Durham	The evolution of barred galaxies in the last 12 billion years
10:54	Flash Talk	Winky Lee	Edinburgh	Star formation and quenching of low-mass galaxies in low- to moderate-density environments
11:00	Coffee			
Session 5: <i>Cosmology</i> (Chair: Dani Leonard)				
11:30	Contributed Talk	Alfie Russell	St Andrews	Dynamical mass profiles of Galaxy Groups – Proof of concept with TNG300
11:45	Contributed Talk	James Betts	Durham	Challenging Lambda-CDM Predictions: A High-Resolution Census of Dark Matter from Cluster-Scale to Galaxy-Scale
12:00	Contributed Talk	Finn Roper	Edinburgh	Mass dependence of halo baryon fractions from the kinetic Sunyaev-Zeldovich effect
12:15	Flash Talk	Aritra Gon	Edinburgh	Turning dispersion into signal: density-split analyses of pairwise velocities
12:21	Flash Talk	Jiaqi Wang	Durham	Revealing the neutrino mass through the persistent topology of the cosmic web
12:27	Flash Talk	Dani Leonard	Newcastle	How to test gravity with LSST and DESI
12:33	Flash Talk	Greco Peña	Durham	Signatures of Extended Dark-Energy Parametrisations in Structure Formation under Background Constraints
12:39	Flash Talk	Hannah Parsler	Durham	Simulating and modelling HARMONI IFU data of lensing systems
12:45	Spotlight Talks			
	1	Willem Elbers	Durham	Reionization in the era of tension cosmology
	2	Marcin Glowacki	Edinburgh	MockKATS: Replicating neutral hydrogen surveys with the MeerKAT radio telescope using hydrodynamical simulations
	3	Aditya Verma	Newcastle	Statistical evaluation of Self-Interacting Fuzzy Dark Matter as a viable candidate for galaxy rotation curves
	4	Holly (Hanbee) Seo	St Andrews	The Breakdown of Galaxy-Halo Connection
	5	Jiachen Bai	Edinburgh	Testing f(R) Gravity from Cosmic Shear Measurements

13:00	Lunch			
	Session 6: <i>High-redshift Galaxies / AGN</i> (Chair: Thomas Stanton)			
14:00	Contributed Talk	Harry Stephenson	Lancaster	The JWST Emission Line Survey: The sizes of star-forming galaxies at the Epoch of Reionization
14:15	Contributed Talk	Abby Patrick	Edinburgh	Tracing Ionizing Photon Escape in the Epoch of Reionization with MUSE and JWST
14:30	Contributed Talk	Cecilia Bondestam	Edinburgh	The ultraviolet continuum slopes of galaxies at $z \geq 12$ selected from 0.5 sq. deg of JWST imaging
14:45	Contributed Talk	Alessandro Trinca	Edinburgh	Hunting the first Cosmic Giants: formation and detectability of Direct Collapse Black Holes around high-redshift quasars
15:00	Flash Talk	Victoria Fawcett	Newcastle	The connection between dust, radio, and ionised outflows in quasars
15:06	Flash Talk	Fergus Henstridge	Lancaster	The Submillimetre Environments of High-Redshift Radio Galaxies with RAGERS
15:12	Flash Talk	Zhenyu Wu	Edinburgh	Modeling the dynamical friction heating from subhalos and its impact in the high-redshift universe
15:18	Flash Talk	Supakorn Juengsophonvitavas	St Andrews	Testing Continuum Reverberation mapping of AGN feasibility with the LSST
15:30	Coffee			
16:00	Announcement of Talk Prizes End of Conference			