



Galaxies at high redshift and their evolution over cosmic time

IAU Symposium 319

Honolulu 11-14 August 2015

Tuesday 11 August

Session 1: Cosmic Dawn (I)

10:30 – 12:30

Speaker	Title
Steven Finkelstein	Understanding the Formation and Evolution of Galaxies in the Cosmic Dawn
Rychard Bouwens	Towards a Complete Census of Bright $z \sim 9-10$ Galaxies from the CANDELS Program: The Volume Density and Physical Properties of Ultra-Bright Galaxies at $z \sim 9-10$ and Possible Evidence for a Steepening of the UV LF to $z > 8$
Ivo Labbe	Stellar populations properties of galaxies at $4 < z < 8$: strong emission lines, SFRs, and quiescence
Andrew Bunker	The most distant galaxies: star formation rates, stellar populations and contribution to reionization
Kasper Schmidt	Probing Reionization at $z \geq 7$ with HST's Near-Infrared Grisms
Rachana Bhatawdekar	The First Galaxy in the Hubble Frontier Fields

Session 2: Cosmic Dawn (II)

14:00 – 15:30

Speaker	Title
Lennox Cowie	Mapping the Most Massively Star-Forming Galaxies in the Distant Universe
Rachael Livermore	Galaxies in the Epoch of Reionization
Alyssa Drake	A MUSE View of the HUDF: The Ly α Luminosity Function out to $z \sim 6.5$
Stephane De Barros	Galaxies at $z \sim 6$: physical properties at the edge of the cosmic reionization
Pascal Oesch	Galaxy Build-up in the First 3 Gyr: Insights from Deep HST and Spitzer/IRAC Observations

Session 3: The first few Gyrs (I)

16:00 – 18:00

Speaker	Title
Martin Bureau	KROSS: KMOS Redshift One Spectroscopic Survey
Nir Mandelker	Compressive vs Solenoidal Turbulence and Violent Disc Instability
Emma Lofthouse	Are major mergers important drivers of galaxy evolution?
Swara Ravindranath	Properties of Star-forming Clumps in Galaxy Disks at $z > 1$ from CANDELS
Yicheng Guo	Giant Clumps in Star-forming Galaxies at $z > 1$ in CANDELS Observations and CANDELized Simulations
Erica Nelson	Spatially resolved H α maps of 2000 galaxies at $z \sim 1$: Evidence for the inside-out formation of disk galaxies

Wednesday 12 August

Session 4: PLENARY		
Reinhard Genzel	The formation and evolution of massive star forming disk galaxies	08:30 – 10:00

Session 5: The first few Gyrs (II)

10:30 – 12:30

Speaker	Title
Julien Devriendt	Evolution of galaxy properties across the peak of cosmic activity in cosmological hydrodynamics simulations
Olivier Le Fevre	First phases of galaxy evolution in $2 < z < 6+$: ~ 10000 galaxies in the VIMOS Ultra Deep spectroscopic survey (VUDS)
Nimish Hathi	The VIMOS Ultra Deep Survey: Ly α Emission and Stellar Populations of Star-Forming Galaxies at $z=2-6$
Sedona Price	The MOSFIRE Deep Evolution Field (MOSDEF) Survey: Stellar and Gas Kinematics of Galaxies at $1.4 \leq z \leq 2.6$
Pierre Ocvirk	Introducing CoDa (Cosmic Dawn): Radiation-Hydrodynamics of Galaxy Formation in the Local Universe
Themiya Nanayakkara	ZFIRE Survey: Studying the IMF at $z \sim 2$
Jeyhan Kartaltepe	Star Formation and AGN Activity in Luminous and Ultraluminous Infrared Galaxies

Session 6: The first few Gyrs (III)

14:00 – 15:30

Speaker	Title
Michael Fall	Understanding Galaxy Formation from Deep Hubble Images: The Forward-Modeling Approach
Daniel Schaerer	A consistent view on normal star-forming galaxies from $z \sim 2$ to 8 from multi-wavelength observations and SED modeling
Christopher Martin	Cosmic Web Imager Observations of Circum-Galactic and Circum-QSO Medium Emission at High Redshift
Joop Schaye	Observations and simulations of the circumgalactic medium
Marijn Franx	Stellar velocity dispersions to $z=2$ and tests of stellar population models

Session 7: Galaxies at long wavelengths (I)

16:00 – 18:00

Speaker	Title
Fabian Walter	Cold Gas in Distant Galaxies
Dominik Riechers	The Intricate Role of Cold Gas and Dust in Galaxy Evolution at Early Cosmic Epochs
Miroslava Dessauges-Zavadsky	New emerging results on molecular gas, stars, and dust at $z \sim 2$, as revealed by low SFR and low stellar mass star-forming galaxies
Tom Muxlow	The e-MERGE Galaxy Evolution Survey
Allison W. S. Man	Are “quiescent” galaxies really void of star formation? The mid-IR, far-IR and radio properties of massive quiescent galaxies at $z=0.1-3$
Herve Dole	New $z > 2$ clusters unveiled by Planck, Herschel & Spitzer - prospects for JWST, Euclid, WFIRST
Kotaro Kohno	SXDF-UDS-CANDELS-ALMA 1.5 arcmin ² deep survey

■ Invited talk

Thursday 13 August

Session 8: Galaxies at long wavelengths (II)

08:30 – 10:00

Speaker	Title
David Elbaz	The far-infrared view on the distant Universe
Kristen Coppin	The Submillimetre Properties of Lyman Break Galaxies
David Clements	Dusty Galaxies at the Highest Redshifts
Elisabetta Valiante	The Herschel-ATLAS survey: main results and data release

Session 9: Evolution of black holes and AGN (I)

10:30 – 12:30

Speaker	Title
Marta Volonteri	The cosmic evolution of massive black holes
Harley Katz	Seeding High Redshift QSOs by Collisional Runaway in Primordial Star Clusters
Ezequiel Treister	Observational Constraints on the Nature of the First Supermassive Black Holes Seeds in the Early Universe
Xue-Bing Wu	Discovery of a 12 billion solar mass black hole at redshift 6.3 and its challenge to the black hole/galaxy coevolution at cosmic dawn
Debora Sijacki	Fast cold gas in hot AGN outflows
Vardha Bennert	Towards an Understanding of the Black Hole Mass Scaling Relations
Massimo Gaspari	The self-regulated AGN feedback loop: the role of chaotic cold accretion

Session 10: Evolution of black holes and AGN (II)

14:00 – 15:30

Speaker	Title
Orianne Roos	Impact of AGN and stellar feedback on the gas of a simulated $z \sim 2$ star-forming galaxy
Hsin-Yi Shih	Large Scale Outflow from a Radio Loud AGN in Merging Galaxies at Redshift 2.47
Fred Hamann	Extreme Red Quasars in SDSS-BOSS
Nathan Secrest	A Population of WISE-Selected Dual AGNs Revealed by Chandra
Kevin Schawinski	Star formation, quenching, black hole feedback and the fate of gas reservoirs
Stanislav Shabala	Quantifying radio-mode feedback from Active Galactic Nuclei

Friday 14 August

Session 11: Evolution of morphology and galaxies at low redshift (I)

08:30 – 10:00

Speaker	Title
Marc Huertas-Company	Galaxy morphologies in the era of large surveys
Jennifer Lotz	Beyond Bulges and Disks: Tracking the Metamorphosis of Galaxies at $z < 2.5$
Preethi Nair	Determining the dominant mechanisms of disk growth since $z \sim 1$
Dan Taranu	On the Formation of Elliptical Galaxies via Mergers in Galaxy Groups
Shy Genel	Galaxy size and angular momentum in the Illustris simulation

Session 12: Evolution of morphology and galaxies at low redshift (II)

10:30 – 12:30

Speaker	Title
Karl Glazebrook	Putting a new spin on angular momentum
Matthew Colless	The SAMI survey - a baseline study for galaxy evolution
Richard McDermid	The Build-Up of Stellar Mass Over Cosmic Time from Atlas3D
Sugata Kaviraj	Minor mergers: fundamental but unexplored drivers of galaxy stellar mass growth
James Geach	Galaxy-scale stellar feedback in massive galaxies without AGN
Daniel Thomas	Redshift evolution of massive galaxies from SDSS-III/BOSS
Ignacio Ferreras	Understanding the size growth of massive galaxies through stellar populations

Session 13: Future instruments (incl. conference summary)

14:00 – 15:30

Speaker	Title
Henry Ferguson	Galaxy Evolution Science in the LSST Era
Jonathan Gardner	High-Redshift Galaxies with the James Webb Space Telescope
Lisa Harvey-Smith	Galaxy Evolution with the Australian SKA Pathfinder (ASKAP)
Mara Salvato	The eROSITA All-Sky Survey and its spectroscopic follow-up
K. Glazebrook & J. Devriendt	Conference summary