

Distant Galaxies from the Far South

11-15 December 2017, Bariloche, Argentina

Conference Programme

Monday 11 December:

- 9:00- 9:05 Conference Welcome (Karina Caputi)
9:05- 9:10 Welcome from the Argentinian Astronomical Society (Leonardo Pellizza)
9:10- 9:20 Important Logistic Information (Guillermo Abramson)

Reionisation & First Galaxies

Chair: Garth Illingworth

- 9:20- 9:50 **Rychard Bouwens** (review talk): *Observations of Galaxies at High Redshift*
9:50-10:10 **Michele Trenti** (keynote talk): *The brightest galaxies at cosmic dawn*
10:10-10:25 Steven Finkelstein: *Reionizing the Universe with Low Galaxy Escape Fractions*
10:25-11:00 **Coffee break**
11:00-11:15 María Emilia de Rossi: *Dust Emission from the First Galaxies*

The IGM at High Redshifts

- 11:15-11:35 **George Becker** (keynote talk): *The IGM-Galaxy Connection Near Reionization*
11:35-11:50 Elisa Boera: *Tracking down reionization using the high-z IGM thermal history*
11:50-12:05 Nicola Menci: *Constraints on the nature of Dark Matter from the abundance of galaxies in the Hubble Frontier Fields*
12:05-12:20 Anne Hutter: *Exploring 21cm - galaxy synergies*
12:20-14:30 **Lunch break**

AGN/QSO and their Role in Reionisation

Chair: Adriano Fontana

- 14:30-15:00 **Bram Venemans** (review talk): *The birth of giants: quasars and their host galaxies in the reionisation epoch*
15:00-15:15 Yoshiki Matsuoka: *Subaru wide-field survey for low-luminosity quasars in the reionization epoch*
15:15-15:30 Emanuele Giallongo: *AGNs in the CANDELS GOODS/EGS fields: looking for high-z ionizing sources*
15:30-15:45 Félix Mirabel: *Stellar black holes in cosmic reionization*
15:45-16:00 Vanesa Douna: *Reionization of the early Universe by electromagnetic cascades produced by microquasars*
16:00-16:30 **Coffee break**
16:30-16:50 **Xiaohui Fan** (keynote talk): *New Surveys of Reionization-era Quasars*

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Reionisation: Lessons from Low Redshifts

- 16:50-17:05 Mario Abadi: *The impact of cosmic reionization on the star formation history of nearby isolated dwarf galaxies*
- 17:05-17:20 Julio Navarro: *Cosmic reionization and the properties of dwarf galaxies*

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Tuesday 12 December:

Galaxy Evolution over the First Few Billion Years

Chair: Franz Bauer

- 9:00- 9:30 **Joop Schaye** (review talk): *Simulations of the early evolution of galaxies and the IGM*
9:30- 9:45 Robert Crain: *The regulation of galaxy growth by SNe- & AGN-driven outflows*
9:45-10:00 William Cowley: *The Galaxy-Halo connection for $2 < z < 6$ as revealed by the Spitzer Matching survey of the UltraVista ultra-deep Stripes (SMUVS)*
10:00-10:15 Lidia Tasca: *Galaxies caught in formation*
10:15-10:30 Gabriela Calistro-Rivera: *What sub-arcsec resolution mapping of the star-forming ISM at $z \sim 2 - 3$ can contribute to high- z SF studies*
- 10:30-11:00 **Coffee break**
- 11:00-11:30 **Renske Smit** (review talk): *Galaxy Evolution over the First Few Billion Years I*
11:30-11:45 Karina Caputi: *Star Formation in Galaxies at $z \sim 4 - 5$ from the SMUVS Survey*
11:45-12:00 Paulina Troncoso: *Evolution of scaling relations from $z = 10$ to $z = 6$ using Frontier Fields data and modelling*
12:00-12:15 Janine Pforr: *The VIMOS Ultra Deep Survey: The UV Luminosity Function and Lyman-alpha escape fraction up to $z \sim 5$*
12:15-12:30 Danilo Marchesini: *Massive Galaxies in the Early Universe and their Evolution into Today's Most Massive Galaxies*
- 12:30-14:45 **Lunch break**

Chair: Lidia Tasca

- 14:45-15:15 **Olivier Le Fèvre** (review talk): *Galaxy Evolution over the First Few Billion Years II*
15:15-15:30 Adam Muzzin: *The Evolution of Massive Galaxies from $0 < z < 5$*
15:30-15:45 Christina Williams: *The formation of quenched galaxies in the first few billion years*
15:45-16:00 Adriano Fontana: *Chasing massive quiescent galaxies at $z > 3$*
- 16:00-16:30 **Coffee break**
- 16:30-16:50 **Kentaro Nagamine** (keynote talk): *Galaxy Evolution over the First Few Billion Years III*
16:50-17:05 Christopher Conselice: *Refining our Understanding of the Merger and Baryonic Assembly of Galaxies*
17:05-17:20 Allison Man: *Evidence for positive AGN feedback and rapid quenching through gas depletion*
17:20-17:35 Flora Stanley: *The mean SFRs of unobscured QSOs at $0.2 < z < 2.5$*
17:35-18:00 **Kristian Finlator** (review talk): *Metal Absorbers and Their Hosts at Cosmic Dawn*
- 19:00-20:00 **Matt Greenhouse** (public talk at BEC): *The James Webb Space Telescope*

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Wednesday 13 December:

Galaxy Evolution from Lensing Studies

Chair: Lise Christensen

- 9:00- 9:30 **Marusa Bradac** (review talk): *Reionisation and First Galaxies*
- 9:30- 9:45 Brett Salmon: *RELICS: Evidence for a Rapid Evolution at the Highest Redshifts*
- 9:45-10:00 Hakim Atek: *The Extreme Faint-end of the UV Luminosity Function at $z \sim 7$ with the Frontier Fields Clusters*
- 10:00-10:15 Gabriel Bartosch Caminha: *Using gravitational telescopes to probe the faint and distant Universe*
- 10:15-10:30 Jorge González: *The ALMA Frontier Fields Survey: Description and first results*
- 10:30-10:45 Matthew Bayliss: *The Definitive Spectral Atlas of Star-forming Galaxies at Cosmic Noon*
- 10:45-10:50 Franz Bauer (short talk): *MUSE observations of LAEs in the Frontier Fields*
- 10:50-11:20 **Coffee break**
- 11:30 **Buses depart to Puerto Pañuelo (for lake tour)**
- Afternoon **Free** - Optional lake tour to Victoria Island & Myrtle-Tree Forest

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Thursday 14 December:

The Dusty Universe from Intermediate to High Redshifts

Chair: Karín Menéndez-Delmestre

- 9:00- 9:30 **Alexandra Pope** (review talk): *The Significance of Dust in Galaxies in the Young Universe*
9:30- 9:45 Kotaro Kohno: *Quest for dusty high-z star-forming galaxies based on unbiased ALMA deep surveys*
9:45-10:00 Takumi Izumi: *SHELLQs-ALMA: submm properties of galaxies hosting less-luminous quasars at $z > 6$*
- 10:00-10:15 Franz Bauer: *Bright ALMA Survey of SMGs in the CDF-S*
10:15-10:30 Paolo Cassata: *Probing the molecular gas content of normal star-forming galaxies at $3 < z < 3.5$ with ALMA*
- 10:30-11:00 **Coffee break**
- 11:00-11:20 **Kirsten Knudsen** (keynote talk): *The presence of dust in the early Universe*
11:20-11:35 Hideki Umehata: *ALMA deep survey in a proto-cluster field*
11:35-11:50 Benny Trakhtenbrot: *ALMA Reveals the Host Galaxies and Close Companions of Fast growing, High-redshift, Supermassive Black Holes*
- 11:50-12:05 Soh Ikarashi: *ALMA studies of a relation between mm-wave sizes and AGN in SMGs*
12:05-12:20 Rodrigo Carvajal: *Stacking in the ALMA Frontier Fields*
- 12:20-14:30 **Lunch break**
- 14:30-14:45 Gergő Popping: *Modeling the dust content of galaxies in the early Universe*

Spectroscopy from Intermediate to High Redshifts

Chair: Kotaro Kohno

- 14:45-15:05 **Anne Verhamme** (keynote talk): *Escape of Lyman alpha and Lyman continuum from galaxies*
15:05-15:20 Stéphane de Barros: *Cosmic reionization and JWST: emission line diagnostics to identify Lyman continuum emitters (and estimate their escape fraction)*
- 15:20-15:35 Naveen Reddy: *Key Results on the Dust Attenuation Curve, Equivalent Width Distributions, and Ionizing Escape Fractions from Rest-UV/Optical Spectra of High-Redshift Galaxies*
- 15:35-15:50 Lucía Guaita: *The role of HI distribution and kinematics on the escape of Ly α photons in star-forming galaxies*
15:50-16:05 Lise Christensen: *The evolution of metals and hydrogen masses at $z > 5$*
- 16:05-16:35 **Coffee break**
- 16:35-16:55 **Nicolas Laporte** (keynote talk): *Unveiling the nature and properties of the first galaxies using NIR- and ALMA- spectroscopy*
- 16:55-17:10 Michael Maseda: *CIII] Emitters in the MUSE UDF Survey*
17:10-17:25 Andra Stroe: *Insights into the high redshift Universe from cosmic noon studies of CIII] and CIV*
17:25-17:40 Gonzalo Díaz: *Galaxy-Absorber pairs at $z > 4.7$ with MUSE*
17:40-17:55 Robert Bassett: *Lyman Continuum galaxies: MOSFIRE observations*

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- 19:30 **Buses depart to Restaurant El Patacón**
- 20:00-22:45 Conference Dinner at Restaurant El Patacón
- 22:45 **Buses return to Hotel NH Edelweiss**

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Friday 15 December:

Paving the Way for JWST and Other New Telescopes

Chair: Karina Caputi

- 9:30- 10:00 **Garth Illingworth** (highlight talk): *Open Questions and the Impact of Future Facilities*
10:00-10:15 George Rieke: *A JWST/MIRI Program in the HUDF and on Searching for AGNs in ULIRGs*
10:15-10:30 Baerbel Koribalski: *The Australian SKA Pathfinder (ASKAP): Update and Early Science*
- 10:30-11:00 **Coffee break**
- 11:00-11:30 **Marcia Rieke** (highlight talk): *Deep Surveys with JWST: Answering Galaxy Evolution Puzzles*
11:30-11:45 Luis Colina: *Mid-IR spectroscopy of distant galaxies with MIRI/JWST*
11:45-12:00 Laura Bisigello: *Recovering galaxy properties of high-z galaxies with JWST photometry*
12:00-12:15 Norbert Pirzkal: *Sharpening Our View of Star Formation in Distant Galaxies using Slitless Spectroscopy*
12:15-12:30 Jaime Forero-Romero: *Boosting the Ly α line in Pop III Galaxies from Stochastic IMF Sampling*
- 12:30-14:30 **Lunch break**
- 14:30-14:45 Mimi Song: *Probing galaxy evolution with galaxy stellar mass functions over cosmic time*
14:45-15:00 Iary Davidzon: *Latest Spitzer observations: a pathfinder for Euclid, WFIRST, and JWST*
15:00-15:15 Karín Menéndez-Delmestre: *The Large Latin American Millimeter Array (LLAMA): status, timeline and science prospects*
15:15-15:30 Sofia Cora: *MultiDark-SAG galaxy catalog*
- 15:30-16:00 **Coffee break**

Discussion Panel: Key Science Questions for the Next Decade

- 16:00-17:00 **Panel Members:** Garth Illingworth, Julio Navarro, Alexandra Pope, George Rieke, Marcia Rieke.
- 17:00-17:10 Conference Summary - End of Conference