



Extragalactic Spectroscopic Surveys

Past, Present and Future
of Galaxy Evolution

12–16 April 2021

Online meeting
organised by ESO

Program

(version Feb 15)



1. General comments

Times in the program below are approximate times. There are 30 minutes buffer in the program each day, in order to deal with Zoom/setup issues.

Time are given in **Chilean Local time**, please check for your specific time zone.

FYI: Chile will be changing clocks ~2 week before the meeting (e.g. as far as we know, Central Europe will be 6h ahead at the time).

2. Monday April 12 / Session 1: Stellar Populations and Star Formation History

Time	Speaker Chair: Claudia Maraston	Title
08:30-08:45	Boris Häußler	Welcome
08:45-09:15	Daniel Thomas	Invited Talk: Stellar Populations and Star Formation History
09:15-09:35	Arjen van der Wel	The LEGA-C Survey of 4000 Galaxies at $z \sim 1$: Stellar Populations and Stellar Kinematics
9:35-9:55	Francesco D'Eugenio	LEGA-C: stellar population gradients 7 Gyr ago
9:55-10:15	Tania Barone	Stellar Populations and the Mass--Size Plane across 7 Gyr using the LEGA-C and SAMI Surveys
10:15-10:35	Anna Gallazzi	Galaxy evolution across environments as probed by the stellar population fossil record
10:45-11:15	Poster session on Gather.Town	
11:15-11:35	Mario Llerena	Rest-frame UV properties of CIII λ 1909 emitters at $z=2-4$ with the ultra-deep VANDELS survey
11:35-11:55	Ignacio Martin Navarro	IMF variations in the Fornax cluster
11:55-12:15	Roberto Maiolino	The JWST Advanced Deep Extragalactic Survey
12:30-13:00	Sebastian Sanchez	Discussion

Session 1, pre-recorded talks (max 10m):

- **ChangHoon Hahn** - The Probabilistic Value-Added Catalog for the DESI Bright Galaxy Survey
- **Christopher Haines** - Tracking the evolution of galaxy populations over the last 8 Gyr with VIPERS
- **Evelyn Johnston** - BUDDI-MaNGA: a statistical spectroscopic survey of galaxy bulges and discs
- **Adriano Poci** - The Assembly Histories of Local Galaxies from IFU Data
- **Giustina Vietri** - AGN activity and star formation of optically-selected Type II AGN in VIMOS spectroscopic surveys

Session 1, posters:

- **Adrian Bittner** - The stellar population content of bar-built nuclear structures in the MUSE TIMER project
- **Adrian Bittner** - The GIST Pipeline: A Multi-Purpose Tool for the Analysis and Visualisation of (Integral-field) Spectroscopic Data
- **Giuseppe D'Ago** - The Red Sequence investigated with a novel IFU analysis GUI
- **Justus Neumann** - The new MaNGA Firefly Catalogue
- **Sree Oh** - Kinematics of galaxy bulges, disks, and gases
- **Mina Pak** - Stellar populations of decomposed bulge and disk for S0 galaxies
- **Taniya Parikh** - Stellar population parameters using MaNGA and MUSE
- **Sebastian Francisco Sanchez** - Senior_astronomer Pipe3D, a pipeline for IFS galaxy surveys
- **Thomas Spriggs** - Fornax3D project: A Census of the PNe population in the early-type galaxies in Fornax.
- **Tjitske Starkenburg** - Star-forming and quiescent galaxies in synthetic spectroscopic surveys from cosmological simulations
- **Pe-Feng Wu** - Resolving post-starburst galaxies with spectroscopical surveys near and far: road to quenching up to $z=1$
- **Stefano Zibetti** - The "glocal" drivers of the bimodality in galaxy stellar populations

3. Tuesday April 13 / Session 2: Session 2: Stellar and gas kinematics

Time	Speaker Chair: Irina Yegorova & Johanna Hartke	Title
08:30-09:00	Federico Lelli	Invited Talk : Gas dynamics across cosmic time
09:00-09:30	Caroline Foster	Invited Talk: Stellar kinematics
09:30-09:50	Giulia Santucci	Internal mass distributions and orbital structures of SAMI passive galaxies
09:50-10:10	Edoardo Iani	Spatially resolving the spectral properties of lensed galaxies at $z > 3$
10:10-10:30	Katja Fahrion	Globular clusters as tracers of galaxy properties
10:45-11:15	Poster session on Gather.Town	
11:15-11:35	Barbara Catinella	Dynamical scaling relations with radio and integral-field spectroscopy data
11:35-11:55	Jennifer Hardwick	The link between angular momentum and star formation cycle in nearby galaxies
11:55-12:15	Callum Bellhouse	Unwinding the Spiral Arms of Galaxies via Ram-Pressure Stripping
12:30-13:00	Michele Cappellari	Discussion

Session 2, pre-recorded talks (max 10m):

- **Anna De Graaff** - The evolution of the Fundamental Plane to $z \sim 1$: results from the LEGA-C Survey
- **Ugne Dudzeviciute** - Decomposing the rotation curves of star-forming galaxies at high redshift
- **Dimitri Gadotti** - The TIMER Survey: constraints on the assembly and evolution of disc galaxies
- **Veselina Kalinova** - Velocity profiles and star-formation quenching of CALIFA galaxies
- **Giacomo Venturi** - MAGNUM survey: dissecting galactic outflows in nearby AGN with VLT/MUSE

Session 2, posters:

- **Avinash Chaturvedi** - Exploring kinematical properties of globular cluster systems around Fornax cluster galaxies through VIMOS spectroscopy
- **Virginia Cuomo** - Bar pattern speeds in CALIFA galaxies: ultrafast bars or too long bars?
- **Amelia Fraser-McKelvie** - A SAMI and MaNGA view on the kinematics of star-forming galaxies
- **Aishwarya Girdhar** - Multi-wavelength spectroscopy to ascertain quasar feedback
- **Catalina Mora Urrejola** - A tidally induced global corrugation pattern in an external disc galaxy similar to the Milky Way
- **Zhu Ling** - Uncovering past galaxy mergers via population-dynamics of their stars
- **Wilfried Mercier** - Morpho-kinematics of galaxies in various environments at $z \sim 0.2 - 1.5$
- **Chaitra Narayan** - The elusive corrugations - caught in dust
- **Carter Rhea** - Analyzing the Kinematics of SITELE Spectra using Machine Learning

4. Wednesday April 14 / Session 3: Environment and Intergalactic Medium

Time	Speaker Chair: Julie Nantais	Title
08:30-09:00	Bianca Poggianti	Invited Talk : Galaxy Evolution and Environment: The Cluster view at $z < 1$
09:00-09:30	Olga Cucciati	Invited Talk: Galaxy Evolution and Environment: The Density Field up to beyond the cosmic noon
09:30-09:50	Benoit Epinat	Galaxy evolution in groups at intermediate redshift from the MUSE gALaxies Groups In Cosmos survey
09:50-10:10	Yucheng Guo	Metal Enrichment in the Circumgalactic Medium and Ly α Halos around Quasars at $z \sim 3$
10:10-10:30	Michael Hilker	Dynamical tracers of galaxy assembly in the core of the Fornax cluster
10:30-11:30	Poster session on Gather.Town	
11:30-11:50	Pierluigi Cerulo	The Morphological Transformations of Galaxies as a function of the Environment at $z = 0.2 - 0.9$
11:50-12:10	Malgorzata Siudek	Different evolutionary paths of VIPERS galaxies at $z \sim 1$
12:10-12:30	James Trussler	The weak imprint of environment on the stellar populations of galaxies
12:30-13:00	Yara Jaffé	Discussion

Session 3, pre-recorded talks (max 10m):

- **Brian Lemaux** - The Legacy of VIMOS in Exploring and Defining Proto-cluster Environments at High Redshift
- **Matilde Mingozzi** - In/out-flows of cold gas in ram-pressure stripped galaxies
- **Marina Trevisan** - The properties and environment of very young galaxies in the local Universe
- **Adam Watts** - Gas removal and the global HI asymmetry of galaxies

Session 3, posters:

- **Lodovico Coccato** - The influence of environment in the formation of lenticular galaxies
- **Luca Cortese** - The role of environment on the star formation quenching of satellite galaxies
- **Yuchen Ding** - Probing environmental quenching in the Fornax cluster through a population-orbit superposition method
- **Anna Durkalec** - Galaxy clustering and its dependencies at high redshift.
- **Enrichetta Iodice** - The assembly history of the Fornax cluster
- **Fiorella Lucia Polles** - Excitation mechanisms in the intracluster filaments surrounding Brightest Cluster Galaxies
- **Abhisek Mohapatra** - CGM and their connection with the galaxies
- **Ana Carolina Lourenco** - "Jellyfish galaxies in violent neighbourhoods"
- **Benedetta Vulcani** - Resolving the pre-processing of galaxies in groups and filaments with MUSE
- **Adam Watts** - Gas content, star formation, and the global HI asymmetry of galaxies on the star-forming main sequence

5. Thursday April 14 / Session 4: Star Formation and Interstellar Medium

Time	Speake Chair: Eelco van Kampen	Title
08:30-09:00	Guillermo Blanc	Invited Talk : Star formation & ISM (local)
09:00-09:30	Manuel Aravena	Invited Talk: Star formation & ISM (high-z)
09:30-09:50	Ross McLure	The VANDELS ESO Public Spectroscopic Survey
09:50-10:10	Victoria Fawcett	An X-shooter insight into dust-reddened quasars
10:10-10:30	Antonello Calabro	Probing the relation between UV slope and stellar metallicity at $z > 2$
10:30-11:30	Poster session on Gather.Town	
11:30-11:50	Mirko Curti	A KLEVER probe of the ISM in high-z
11:50-12:10	Sara Ellison	Complexity and scatter in kpc-scale star formation scaling relations in ALMaQUEST
12:10-12:30	Ryan Sanders	Galaxy gas-phase metallicities from the epoch of reionization to the present day
12:30-12:50	Justus Neumann	Stellar populations of galaxy bars and the distribution of stellar metallicity in galaxies

Session 4, pre-recorded talks (max 10m):

- **William Cramer** - Spectacular ram pressure stripping: high resolution studies of the impact on the multiphase ISM
- **Rebecca Davies** - The Connection Between Galaxy Star Formation Rates and HII Region Electron Densities at $0 < z <$
- **Alex Gurvich** - Feedback regulated star formation in galaxies evolving from bursty clumps to time-steady discs
- **Sandro Tacchella** - Fast, Slow, Early, Late: Quenching Massive Galaxies at $z=0.8$
- **Jessica Thorne** - Using the SED-fitting code ProSpect to trace star formation over the last 8 billion years

Session 4, posters:

- **Jorge K. Barrera-Ballesteros** - Star Formation is self-regulated at kpc scales
- **Guilherme Couto** - Characterization of mild ionized gas outflows in star-forming galaxies
- **Marco Gullieuszik** - Star Formation in the tails of ram-pressure stripped galaxies from the GASP MUSE Large Programme
- **Gustavo Orellana-González** - Cosmic evolution of molecular gas mass density from an empirical relation between L_{rad} and L_{CO}
- **Joanna Piotrowska** - Physical drivers of quenching in massive centrals – an observational and simulated perspective
- **Alberto Saldana-Lopez** - Using LIS UV-lines to select Lyman continuum leaking candidates in the VANDELS survey
- **Nofoz Suleiman** - The physical and statistical properties of IR-bright Dust-Obscured Galaxies & SED modeling by CIGALE
- **Neven Tomicic** - Characteristics of the diffuse ionized gas in gas-stripped galaxies
- **Eelco van Kampen** - Building samples of distant cluster galaxies with ALMA
- **Anatolii Zadvornyi** - Star formation suppression, gas consumption and stripping in cluster satellites.

6. Friday April 15 / Rest Session 4 & Session 5: Instrumentation

Time	Speaker Chair: Emanuela Pompei	Title
08:30-08:50	Alice Concas	Ionised and neutral gas outflows across cosmic time
08:50-09:20	Lidia Tasca	Discussion Session 4
09:20-09:50	Sofia Feltzing	Invited Talk: Upcoming multi-object spectrographs
09:50-10:10	Jenny Greene	The Prime Focus Spectrograph Galaxy Evolution Survey
10:10-10:30	Michele Cirasuolo	MOONS at the VLT: current status and planning for galactic and extragalactic surveys.
10:30-11:30	Poster session on Gather.Town	
11:30-11:50	Giovanni Cresci	MAVIS: sharper than JWST, deeper than HST
11:50-12:10	Lidia Tasca	MOSAIC on the ELT: high-multiplex spectroscopy to unravel the physics of stars and galaxies from the Dark ages to the present days
12:10-13:00	Laura Pentericci	Conference Summary

Session 5, pre-recorded talks (max 10m):

- **William Brandt** - X-ray Survey Follow-Up as a Driver of Extragalactic Spectroscopic Surveys
- **Mark Dickinson** - ATLAS Probe: galaxy evolution & cosmology from spectroscopy of 200M galaxies out to $z=7$
- **Benne Holwerda** - Spectroscopic Surveys and HI in Deep Fields
- **Alicia Lanz** - The Magellan Infrared Multi-Object Spectrograph Project
- **Tanya Urrutia** - The MUSE view in Deep Fields: IFUs as spectroscopic survey instruments