16:45-17:00 Jianan Li

Probing the Physical Conditions of the Interstellar and Circumgalactic Medium in the Early Universe

17:00-17:32 Poster session

17:32-18:00 Discussion

13 September

AGN II: chair Antonio Pensabene

9:30-10:00 Fabian Walter (invited)

Illuminating the Dark Ages: Luminous Quasars and Their Massive Host Galaxies in the Reionization Epoch

10:00-10:15 Tanio Diaz Santos

The ISM of the Most Luminous Obscured Quasar Revealed by ALMA and JWST

10:15-10:30 Yana Khusanova

The interstellar medium properties in the most radioloud quasars at z>6

10:30-10:45 Theulé Patrice

AGN emission lines in high-redshift galaxies

10:45-11:15 coffee break

11:15-11:30 Federica Loiacono

A NIRSpec/IFU view of a quasar-galaxy merger at cosmic dawn

11:30-11:45 Michele Perna

Galaxy Assembly with JWST/NIRSpec IFS (GA-NIFS): the close environment of AGN at z~3-7

11:45-12:00 Chiara Circosta

Exploring the role of outflows driven by active galactic nuclei in the baryon cycle up to redshift ~1

12:00-12:15 Elena Bertola

The molecular view of AGN feedback at cosmic noon: do AGN gas-deplete their hosts?

12:15-12:30 Giovanna Speranza

Multi-phase outflows in local type-2 quasars

12:30-13:00 Discussion

13:00-13:15 Concluding remarks

13:15-14:00 lunch







Bologna (Italy)
9-13 September 2024
Alma Mater Studiorum Giorgio Prodi Lecture Hall

9 September

9:00-9:30 Francesca Pozzi, Roberto Decarli, Margherita Talia

Welcome Talk

Local Galaxies I: chair Irene Shivaei

9:30-10:00 Karin Sandstrom (review)

A High Resolution View of the Interstellar Medium and Star Formation in Nearby Galaxies with JWST

10:00-10:15 Svea Hernandez

Dissecting the Mid-infrared Heart of M83 with JWST

10:15-10:30 Lara Pantoni

MICONIC: an unprecedented view of the nuclear and circum-nuclear ISM of nearby iconic galaxies by JWST MIRI-MRS

10:30-10:45 Sara Ellison

What is the most fundamental scaling relation for predicting star formation?

10:45-11:15 coffee break

11:15-11:45 Sharon Meidt (invited)

The contribution of gravity, rotation and pressure to the observed structure of gas disks

11:45-12:00 Vidhi Ritesh Tailor

Galactic Thermometers: Probing the Radial Gradient of Dust Temperature in Local Spiral Galaxies

12:00-12:15 Ryan Keenan

Molecular Gas Conditions and CO Line Excitation in Nearby Galaxies with AMISS

12:15-12:30 Yu-Hsun (Eltha) Teng

Re-evaluating Star Formation Efficiencies in Nearby Galaxies with a New α_CO Prescription

12:30-14:00 lunch

<u>Local galaxies II: chair Leindert Boogaard</u>

14:00-14:30 Almudena Alonso-Herrero (invited)

Dust and gas in the nuclear and circumnuclear regions of nearby Seyfert galaxies as revealed by IWST/MIRI

14:30-14:45 Lise Ramambason

Structure and porosity of the multiphase ISM: insights from resolved and unresolved galaxies

14:45-15:00 Miguel Querejeta

Unveiling the nature of spiral arms in PHANGS galaxies

15:00-15:15 Andrea Romanelli

Environmental dependance of GMC evolution and star formation in nearby galaxies

15:15-15:30 Elias Oakes

Are GMCs real? Searching for a virialized scale in NGC

15:30-15:45 María Jesús Jiménez Donaire

Key signatures of molecular gas: linking dense gas and star formation across a diverse set of environments

15:45-16:15 coffee break

16:15-16:30 Ilaria Ruffa

The origin of cold gas in nearby early-type galaxies

16:30-16:45 Blake Ledger

CN as a tool for dense gas studies in star-forming galaxies

16:45-17:00 Bronwyn Reichardt Chu

DUVET: How star formation-driven outflows regulate star formation

17:00-17:15 Francesco Bollati

On the origin and evolution of cold gas in galactic

17:15-17:30 Michael Romano

The primary role of star-formation-driven outflows on the baryon cycle of nearby dwarf galaxies

17:30-17:45 Chevance Mélanie

The multi-phase structure ISM shaped by the baryon cycle in nearby galaxies

17:45-18:15 Discussion

10 September

Cosmic noon I: chair Romain Meyer

9:30-10:00 Miroslava Dessaiges-Zevadsky (review)

Star clusters shaping the morphology and tracing the ISM of galaxies out to the reionization epoch

10:00-10:15 Letizia Bugiani

Ionized Gas Emission in Quiescent Galaxies at Cosmic Noon with JWST

10:15-10:30 Rebecca Davies

Do AGN-driven outflows quench star-formation in massive z~2 galaxies?

10:30-10:45 Dominik Taylor

Testing ISM models using ALMA-observed CO excitation of z = 2-4, dusty star-forming galaxies

10:45-11:15 coffee break

11:15-11:45 Francesco Valentino (invited)

Painting galaxies growth and death at cosmic noon (and beyond)

11:45-12:00 Anita Zanella

Revealing the onset of star formation by studying high-redshift clumpy galaxies with ALMA

12:00-12:15 Patrick Kamieneski

Blowing dusty bubbles into the CGM: the contribution of dust-enshrouded starbursts to the baryon cycle

12:15-12:30 Boris Sindhu Kalita

Understanding the role of clumps in bulge formation using ALMA and JWST

12:30-14:00 lunch

Cosmic noon II: chair Maria Jesùs Jiménez Donaire

14:00-14:30 Hiroyuki Hirashita (invited)

Theoretical understanding of dust evolution across cosmic time

14:30-14:45 Benedikt Diemer

A three-phase ISM model for the largest cosmological

14:45-15:00 Antonio Pensabene

Witnessing the assembly of galaxies in a massive node of the Cosmic Web at z~3

15:00-15:15 Manuel Solimano

A MUSE+ALMA+JWST view into a strongly-lensed Lyman Alpha Halo at z=3

15:15-15:30 Irene Shivaei

Dust at Cosmic Noon with JWST and ALMA

15:30-15:45 Leindert Boogaard

The Cold ISM of Gas-Rich Galaxies Through Cosmic Time

15:45-16:15 coffee break

16:15-16:30 Alba Vidal García

CH+(1-0) in z~2-6 starburst galaxies: probes of extended reservoirs of multi-phasic turbulent gas

16:30-16:45 Toby Devereaux

Sub-kpc molecular gas morphology of 5 mainsequence galaxies at z~4.5 revealed by ALMA

16:45-17:00 Zhaoxuan Liu

Sub-kiloparsec study of the ISM and star formation in starbursts at z = 1.5

17:00-17:15 Fabrizio Gentile

Dark progenitors and massive descendants: an ALMA/JWST perspective on Radio-Selected NIRdark galaxies

17:15-17:30 Carlotta Gruppioni

The nature and fate of the most obscured high-z galaxies

17:30-18:00 Discussion

20:30 Outreach public event (italian language) -DamsLab

11 September

AGN I: chair Elena Bertola

9:30-10:00 Cristina Ramos Almeida (review)

AGN feeding and feedback from parsec to kiloparsec scales

10:00-10:15 Alejandra Rojas

Testing the Impact of outflows in the Molecular Gas Content of Nearby X-ray AGN

10:15-10:30 Santiago García-Burillo

The ALMA view of the gas cycle in nearby AGN

10:30-10:45 Iván Ezeguiel López

Low-luminosity AGN Feedback: the ISM impact by the ADAF/radio-iet in M58

10:45-11:15 coffee break

11:15-11:45 Alessandro Lupi (invited)

Galaxy-black hole interplay in high-redshift active galactic nuclei: the impact of super-Eddington accretion

11:45-12:00 Xiaoyang Chen

Failed AGN feedback? -- Molecular reservoirs are not severely affected by extreme AGN ionized-wind in **ULIRGs**

12:00-12:15 Maria Vittoria Zanchettin

The spatially resolved star formation law in nearby AGN host galaxies

12:15-12:30 Cosimo Marconcini

From momentum to energy driven: the first proof of accelerating AGN outflows

12:30-12:45 Federico Esposito

The manifold ways of AGN feedback on the molecular gas: X-ray dominated regions and outflows

12:45-13:15 Poster session

20:00 Conference dinner

12 September

High redshift I: chair Melanie Chavance

9:30-10:00 Livia Vallini (review)

Zoom-in on the first galaxies: how to bridge theory and observations at the cosmic dawn

10:00-10:15 Masato Hagimoto

Porous Neutral Gas Nature of Interstellar Medium in a Lyman Break Galaxy at Redshift z = 8.312

10:15-10:30 Rychard Bouwens

[CII]-Selected Sample of Extremely High SFR Sources in the z>6 Universe: First Results from the New CISTERN Program

10:30-10:45 Vicente Villanueva

CRISTAL: A survey of gas, dust, and stars in starforming galaxies when the Universe was ~1 billion vears old

10:45-11:15 coffee break

11:15-11:45 Andreas Faisst (invited)

The ISM and dust properties of (post-)reionization galaxies probed by ALMA and JWST

11:45-12:00 Eleonora Parlanti

Multiphase outflows in a main sequence galaxy at

12:00-12:15 Lizhi Xie

First quenched galaxies from the perspective of semianalytic model

12:15-12:30 Mahsa Kohandel

Dynamically Cold Disks in the Early Universe: Myth or

12:30-14:00 lunch

High redshift II: chair Tanio Diaz-Santos

14:00-14:30 Yoshinobu Fudamoto (invited)

Galaxy Evolution during the Cosmic Reionization: New Insights from ALMA and JWST

14:30-14:45 Bo Peng

Comprehensive View of Far-Infrared Fine Structure Lines: New Answers & New Questions

14:45-15:00 Denis Burgarella

Dust and Metal Evolution from z=4 to z=12 with the CIGALE code and JWST photo+spectrometric data

15:00-15:15 Prasad Sawant

Linking Gas, Dust, and Star Formation: Probing the baryonic cycle in early galaxies with the ALPINE survey

15:15-15:30 Ambra Nanni

Probing dust across cosmic time: early epoch Insights with the James Webb Space Telescope

15:30-15:45 Giacomo Venturi

Gas-phase metallicity gradients in early galaxies at

15:45-16:15 coffee break

16:15-16:30 Ken-ichi Tadaki

Heating of Warm Gas in a Luminous Quasar at z=6

16:30-16:45 Romain Meyer

Pushing ALMA to the limit: 140-pc resolution [CII] and continuum observations of a z=6.6 quasar-galaxy merger