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V WORKSHOP  
“CHEMICAL ABUNDANCES IN GASEOUS NEBULAE”

A virtual workshop in honor to the International Women’s Day

March 2026  
FROM 9<sup>TH</sup> TO 10<sup>TH</sup>

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**Program and Speakers**

**Invited Speakers**

Floor Broekgaarden (U. California, San Diego, USA)  
Chiaki Kobayashi (U. Hertfordshire, UK)  
Francesca Matteucci (U. Trieste, Italy)  
Celine Peroux (European Southern Observatory, Garching, DE)  
Grace Telford (U. of Utah, USA)  
Elena Terlevich (INAOE, Mexico)  
Thaisa Storchi Bergmann (UFRGS, Brazil)  
Claudia Mendes (Brazil)

**Program**

All events will be virtual and be hosted by the Instituto de Pesquisa e Desenvolvimento (IP&D/UNIVAP), located at São José dos Campos, SP.  
Invited talks are **30** minutes long, including **5** minutes for questions and discussions.  
Contributed talks are **15** minutes long, including **3** minutes for questions.

The schedule of the workshop follows the Brazil winter timezone (BRT).

<https://www.timeanddate.com/time/zones/brt>

9 March		
10:25-10:30	Annalisa De Cia and Oli Dors	Welcome
10:30-11:00	Invited talk: Francesca Matteucci	Chemical evolution of galaxies: from the Milky Way to early galaxies
11:00-11:15	F. Fabián Rosales-Ortega	A new generation of empirical metallicity calibrations based on a comprehensive Te-based approach for local and high-z studies
11:15-11:30	Phoebe Heretz	A New Gas-Phase Metallicity Diagnostic Suitable for Low-Resolution Surveys of Star-Forming Galaxies
11:30-11:45	Adarsh Ranjan	Unveiling Metal Mixing in a Grand-Design Spiral: A UV-optical multiphase
11:45-12:00	Invited talk: Claudia Mendes	Giant Magellan Telescope Instrumentation
12:00-12:15	Break	
12:15-12:45	Invited talk: Elena Terlevich + Sandra Zamora Arenal	The extremely high metallicity breaking point
12:45-13:00	Chloe Bosomworth	Variation of the Nitrogen-to-Oxygen ratio in H II regions across the disk of M31
13:00-13:15	Maialen Orte-García	The DESIRED electron temperature relations in star-forming regions of the Local Universe
13:15-13:30	Igor Zinchenko	Direct electron temperature measurement in [OII] zone in IZw18
13:30-14:00	Break	
14:00-14:30	Floor Broekgaarden	TBD
14:30-14:45	Matilde Mingozi	A UV-to-IR view of nearby high-z analogs with JWST and HST to interpret the first galaxies
14:45-15:00	José Eduardo Méndez Delgado	Beyond Case B and Uniform Temperatures: Systematic Biases in Nebular Diagnostics
15:00-15:15	Tanita Ramburuth-Hurt	Connecting the dusty dots: dust depletion and extinction of local interstellar clouds

15:15-15:30	Erik Aver	The LBT Yp Project: A New Value of the Primordial Helium Abundance
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10 March		
10:30-11:00	Invited talk: Chiaki Kobayashi	TBD
11:00-11:15	Ilse De Looze	Tracing chemical enrichment in high-z galaxies with abundance ratios of N/O, Ne/O, S/O and Ar/O
11:15-11:30	José M. Vílchez	Chemical abundances and the He <sup>++</sup> ionization problem in star-forming dwarf galaxies
11:30-11:45	Souradeep Bhattacharya	Probing chemical enrichment in star-forming galaxies from direct O, Ar & N abundances
11:45-12:00	Break	
12:00-12:30	Invited talk: Thaisa Storchi Bergmann	The AGN/Starburst (and metallicity) connection in the near and far Universe
12:30-12:45	Borja Pérez-Díaz	Characterizing the shape of the radial metallicity gradients in LLAGNs
12:45-13:00	Alessandro Marconi	HOMERUN: A Unified Photoionization Framework for Chemical Abundances in Star-Forming Regions and AGN
13:00-13:30	Invited talk: Grace Telford	New Insights into Stellar Astrophysics at Very Low Metallicity
13:30-13:45	Ilona Morel	The diversity of N-emitters beyond their extreme abundances
13:45-14:00	Karla Arellano-Cordova	Elemental Clues to Galaxy Evolution: Insights from CNO abundance across cosmic time
14:00-14:15	Break	
14:15-14:45	Invited talk: Celine Peroux	Metals from global to galactic scales
14:45-15:00	Nathalie Korhonen Cuestas	Taking a Cue from CECILIA: Measuring metallicity in large samples at Cosmic Noon

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<b>15:00-15:15</b>	Lesly Corina Castañeda Carlos	Multiscale analysis of the physical and chemical properties of the ISM in the LMC with the LVM
<b>15:15-15:30</b>	<b>Karla Arellano-Cordova &amp; Sophia Flury</b>	Finishing remarks