Cosmic Chemical Evolution
A conference in honour of Francesca Matteucci

Grand Hotel San Pietro, Palinuro, Italy, June 24–28, 2024

(All talks are invited talks)

	MONDAY 24 JUNE, 2024	
8:50–9:00	*Welcome*	
9:00–9:20	**Toshitaka Kajino**	*"Roles of neutrinos in Galactic Chemical Evolution; from Big-Bang to Supernova"*
9:20–9:40	**Paolo Molaro**	*"Rb and Li isotopes in the SMC: the cosmological Li problem is still a problem and s-process occurred at low metallicities"*
9:40–10:00	**Xiaoting Fu**	*"Lithium evolution in low mass stars: stellar nature and connection to the cosmological lithium problem"*
10:00–10:20	**Georges Meynet**	*"Possible chemical feedbacks of the first massive, very massive and supermassive stars"*
10:20–11:00	**COFFEE AND TEA BREAK**	
11:00–11:20	**Marco Limongi**	*"Evolution, explosion and nucleosynthesis of stars in the mass range 9-13 Msun"*
11:20–11:40	**Sergio Cristallo**	*"Neutron capture elements in our Galaxy: the importance of stellar yields"*
11:40–12:00	**Thanh Nguyen**	*"PARSEC low- and intermediate-mass models: Rotation and thermohaline mixing"*
12:00–16:30	**BUFFET LUNCH & SUNBATHING BREAK**	
16:30–16:50	**Elisabetta Caffau**	*"Chemical diversity at low metallicities"*
16:50–17:10	**Piercarlo Bonifacio**	*"Life on the fast lane: the surprising properties of Galactic high speed stars"*
17:10–17:30	**Alejandra Recio-Blanco**	*"The Galactic disc stellar populations with high precision Gaia/RVS chemo-physical parameters"*
17:30–19:00	**WELCOME COCKTAIL**	

	TUESDAY 25 JUNE, 2024	
9:00–9:20	**Samir Nepal**	*"From metal-poor to metal-rich - new insights on MW disc history with machine learning and Gaia"*
9:20–9:40	**Mariagrazia Franchini**	*"Carbon and Oxygen in the Galactic disks"*

9:40–10:00	**Patrick de Laverny**	*"Exploring the Galactic content in s-process elements with space and ground-based spectroscopic surveys"*
10:00–10:20	**Raffaele Gratton**	*"Stellar and planetary companions to stars"*
10:20–11:00	**COFFEE AND TEA BREAK**	
11:00–11:20	**Beatriz Barbuy**	*"A census of globular clusters in the Galactic bulge"*
11:20–11:40	**Sergio Ortolani**	*"Ages of old metal poor bulge stars nearby the Sun"*
11:40–12:00	**Mike Rich**	*"The Blanco Decam Bulge Survey: Implications for the chemical enrichment history of the bulge"*
12:00–16:30	**BUFFET LUNCH & SUNBATHING BREAK**	
16:30–16:50	**Carme Gallart**	*"Chronology of our Galaxy from Gaia color-magnitude diagram fitting (ChronoGal): spatially and kinematically resolved star formation histories of the Milky Way disk and halo"*
16:50–17:10	**Anna Queiroz**	*"Unveiling the Formation of the Milky Way Disk: A Comprehensive Exploration of the old disk Star Formation History"*
17:10–17:30	**Nils Ryde**	*"Chemical Characterization of the Galactic Center"*
17:30–17:50	**Brian Thorsbro**	*"Surprising results from spectroscopic analysis of stars close the supermassive black hole"*

	WEDNESDAY 26 JUNE, 2024	
9:00–9:20	**Mathias Schultheis**	*"Nuclear stellar disc"*
9:20–9:40	**Mattia Sormani**	*"The Milky Way's nuclear stellar disc"*
9:40–10:00	**Marica Valentini**	*"The Milky Way assembly history: insights from solar-like oscillating Red Giants"*
10:00–10:20	**Giuseppe Bono**	*"Once upon a time variable stars"*
10:20–11:00	**COFFEE AND TEA BREAK**	
11:00–11:20	**Giuliana Fiorentino**	*"Pulsation and evolutionary properties of variable stars to constrain galaxy formation"*
11:20–11:40	**Valentina D'Orazi**	*"The chemical tales told by RR Lyrae star"*
11:40–12:00	**Alessio Mucciarelli**	*"The chemical DNA of the Magellanic Clouds"*
12:00–16:30	**BUFFET LUNCH & SUNBATHING BREAK**	
16:30–16:50	**Luca Pasquini**	*"Chemical Evolution & Multi Object Spectrographs (MOS) at ESO"*
16:50–17:10	**Zhi-Yu Zhang**	*"Measuring CNO isotopic gradients in molecular gas of the Milky Way"*

17:10–17:30	**Luca Ciotti**	*"SNIa and AGN feedback in early-type galaxies"*
17:30–17:50	**Silvia Pellegrini**	*"Heavy elements in the hot ISM of early-type galaxies"*

	THURSDAY 27 JUNE, 2024	
9:00–9:20	**Alvio Renzini**	*"The Main Sequence of Star-Forming Galaxies and their Chemical Evolution"*
9:20–9:40	**Claudia Maraston**	*"Stellar Population Models"*
9:40–10:00	**Patricia Tissera**	*"The link between the chemical abundances relations and the history of formation of galaxies"*
10:00–10:20	**Daniel Thomas**	*"iMaNGA: a virtual IFU survey based on Illustris hydro-dynamical simulations"*
10:20–11:00	**COFFEE AND TEA BREAK**	
11:00–11:20	**Nikos Prantzos**	*"Secular evolution of the Milky Way disk and the role of recent star formation episodes"*
11:20–11:40	**Eda Gjergo**	*"Probing the origin of heavy isotopes in dwarf galaxies with a variable initial mass function"*
11:40–12:00	**Arianna Vasini**	*"2D chemical evolution model for 26Al and 60Fe"*
12:00–16:30	**BUFFET LUNCH & SUNBATHING BREAK**	
16:30–16:50	**Ivan Minchev**	*"The Galactic disk is frisky: ringing, wiggling, streaming, and mixing"*
16:50–17:10	**Marta Molero**	*"Chemical evolution of the Galactic bulge with different stellar population"*
17:10–17:30	**Emanuele Spitoni**	*"The presence of diverse infalls of gas unveiled by APOGEE DR17 and Gaia DR3"*
17:30–17:50	**Gabriele Cescutti**	*"MINCE survey: neutron capture elements in Gaia-Enceladus"*

	FRIDAY 28 JUNE, 2024	
9:00–9:20	**Chiaki Kobayashi**	*"Chemodynamical simulations of the Galaxy and galaxies"*
9:20–9:40	**Dyna Ibrahim**	*"Chemical enrichment from the first stars in cosmological simulations"*
9:40–10:00	**Federico Rizzuti**	*"The contribution of rotating massive stars to the chemical evolution of the Galaxy"*
10:00–10:20	**Marco Palla**	*"Mapping radial abundance gradients with Gaia-ESO open clusters: evidence of late gas accretion in the Milky Way disk"*
10:20–11:00	**COFFEE AND TEA BREAK**	
11:00–11:20	**Donatella Romano**	*"Isotopic gradients along the Milky Way disc"*

11:20–11:40	**Cristina Chiappini**	*"Future Challenges in Galactic Archaeology"*
11:40–12:00	**Francesca Matteucci**	*Concluding speech*

Session 1: Big Bang Nucleosynthesis
Session 2: Stellar Evolution and Nucleosynthesis
Session 3: Stars in fields and clusters of the Milky Way and nearby galaxies
Session 4: Moving outside of the Local Group
Session 5: Modeling galactic chemical enrichment (and not only)