

Schedule for ALMA at 10 years: Past, Present, and Future

December 4-8, 2023

Puerto Varas, Chile

Monday, 4 th of December				
Time (CLT)	Session chair	Presentation (* = online)	Title	Speaker
08:15			Registration	
08:45			Introduction	Gautier Mathys
09:00	John Carpenter	Invited	ALMA status	Sean Dougherty
09:25		Invited	How ALMA Came To Be	Paul Vanden Bout
10:10		Invited	Astrochemistry of disks around low-mass young stellar objects	Yuri Aikawa
10:35	Coffee break and poster viewing			
11:05	Adele Plunkett	Contributed	Observations of the earliest stage of planet formation using ALMA	Nagayoshi Ohashi
11:20		Contributed	10 years of debris disc science with Beta Pic	James Miley
11:35		Contributed*	Witnessing the formation of giant planets: the first discovery of a circumplanetary disk in molecular line observations	Jaehan Bae
11:50		Contributed	A Decade of Complex Organic Molecules in Protoplanetary Disks with ALMA, and an Even Brighter Future	Ryan Loomis
12:05	Poster flash session			
12:35	Lunch			
14:30	David Rebolledo	Invited	Unveiling the Cosmic Mysteries: A Decade of ALMA Discoveries Redefining Galaxy Evolution	Manuel Aravena
14:55		Contributed	The CRISTAL ALMA Large Program: a survey of gas, dust, and stars when the Universe was ~1 Gyr old	Rodrigo Herrera-Camus
15:10		Contributed	Identifying and characterizing high-redshift dusty star-forming galaxies with ALMA and JWST	Jorge Zavala
15:25		Contributed	ALMA [OIII] 88 um observations of galaxies in the reionization epoch and follow-up observations with JWST	Takuya Hashimoto
15:40	Poster flash session			
15:55	Coffee break and poster viewing			
16:25	Sergio Martin	Invited	Gas and Dust in distant galaxies seen by ALMA	Hanae Inami
16:50		Contributed*	The dust properties of galaxies in the early Universe as revealed by ALMA	Hiddo Algera
17:05		Contributed	Accelerated massive galaxy formation along the cosmic web filaments at z=3	Hideki Umehata
17:20		Contributed	The ALPAKA sample: a zoom in view on the CO morphokinematics of z=0.5-3.5 star-forming galaxies	Francesca Rizzo
18:00	Welcome cocktail in Hotel Cumbres			

Tuesday, 5 th of December				
Time (CLT)	Session chair	Presentation (* = online)	Title	Speaker
09:00	Serena Viti	Invited	Investigating the origin of stellar masses with ALMA-IMF	Frederique Motte
09:25		Invited*	To be announced [ISM, star formation and astrochemistry]	Cara Battersby
09:50		Contributed	The Power of Molecular Outflows in Low-metallicity Star Formation	Kei Tanaka
10:05		Contributed	Insights into High-Mass Star Formation: Statistical Study of Cores in Infrared Dark Clouds	Kaho Morii
10:20		Contributed	Non-equilibrium chemistry in the diffuse ISM revealed by ALMA	Daniel Rybarczyk
10:35	Coffee break and poster viewing			
11:05	Viviana Guzman	Contributed	Complex Organic Molecules in Protostars with ALMA Spectral Surveys (COMPASS)	Jes Jørgensen
11:20		Contributed	A Comprehensive Characterization of Protostellar Multiplicity in the Solar Neighborhood	John Tobin
11:35		Contributed*	The role of hub-filament systems in forming the most massive stars there is in the Galaxy: 10 years of ALMA observations	Nicolas Peretto
11:50		Contributed	Modeling the initial conditions of collapse in a dense prestellar core	Rachel Friesen
12:05	Poster flash session			
12:35	Lunch			
14:30	Hiroshi Nagai	Invited	Young, massive, embedded star clusters and their feedback revealed by ALMA	Rebecca Levy
14:55		Contributed	The relation between ionised outflows and molecular gas content in nearby X-ray AGN	Alejandra Rojas
15:10		Contributed	The WISDOM project: constraining the properties of (active) SMBHs using ALMA observations	Ilaria Ruffa
15:25		Contributed	Failed AGN feedback? -- Molecular reservoirs are not severely affected by extremely fast, kpc-scale AGN ionized-wind in ULIRGs at $z \sim 0.5$	Xiaoyang Chen
15:40		Contributed	Star Formation and Gas Properties of Local Luminous and Ultra Luminous Infrared Galaxies	Loreto Barcos-Munoz
15:55	Coffee break and poster viewing			
16:25	Kengo Tachihara	Invited*	The ALMA view of the gas cycle in nearby AGN	Santiago Garcia-Burillo
16:50		Contributed	CHILES+ALMA: A first look at combining resolved atomic and molecular hydrogen beyond $z=0.1$	Kelley Hess
17:05		Contributed	Fate of Cold Gas Accretion in a Brightest Cluster Galaxy: The Case of Perseus/NGC1275	Hiroshi Nagai
17:20		Contributed*	Resolving the star formation cycle from GMCs to star clusters in lensed galaxies at cosmic noon	Miroslava Dessauges-Zavadsky
17:35		Contributed	Dust polarization in nearby galaxies observed with ALMA	Rosita Paladino
17:50		Contributed	Radio jets expanding in the cold molecular ISM: what ALMA has told us in the past 10 years	Raffaella Morganti
18:05		Contributed	A new window to reveal the magnetised early Universe	Jianhang Chen
18:20		Conference photo		

Wednesday, 6 th of December				
Time (CLT)	Session chair	Presentation (* = online)	Title	Speaker
09:00	Alvaro Gonzalez	Invited	The ALMA Wideband Sensitivity Upgrade	John Carpenter
09:25		Contributed	The ALMA East Asian Development Programme	Bunyo Hatsukade
09:40		Contributed	The ALMA European Development Programme	María Díaz Trigo
09:55		Contributed	The ALMA North American Development Programme	Crystal Brogan
10:10		Contributed*	CARTA: Cube Analysis and Rendering Tool for Astronomy - what CARTA can help to your ALMA projects	Kuo-Song Wang
10:25		Contributed	The Impact of Weather on ALMA Operations	Priscilla Nowajewski
10:40	Coffee break and poster viewing			
11:10	Loreto Barcos	Invited	Unlocking the Secrets of the Solar System at mm/sub-mm Wavelengths	Martin Cordiner
11:35		Contributed	ALMA's detailed insight on the source and distribution of volatiles in cometary comae: The Case of Comet 46P/Wirtanen	Stefanie Milam
11:50		Contributed	ALMA Observations of the DART Impact: Characterizing the Ejecta at Sub-Millimeter Wavelengths	Nathan Roth
12:05	Poster flash session			
13:30	Conference excursion with box lunch. Buses leave from Hotel Cumbres at 13:30 and return approximately 18:30			

Thursday, 7 th of December				
Time (CLT)	Session chair	Presentation (* = online)	Title	Speaker
09:00	Suzanna Randall	Invited*	Unveiling the secrets of evolved stars: Insights from the ALMA Observatory	Leen Decin
09:25		Contributed	Betelgeuse after the great dimming - 8mas images with ALMA	Bill Dent
09:40		Contributed	High resolution ALMA imaging of H ₂ O, SiO, and SO ₂ masers in the dynamical atmosphere of the AGB star W Hya	Keiichi Ohnaka
09:55		Contributed*	Probing the dusty extended atmosphere of IRC+10216: ALMA high-resolution observations unveil atmospheric blobs	Luis Velilla-Prieto
10:10		Invited*	ALMA's transformative impact in transient science	Deanne Coppejans
10:35	Coffee break and poster viewing			
11:05	Stefanie Milam	Invited	Observing the Sun with ALMA	Stephen White
11:30		Contributed	Explore the unexplored in pulsar spectrum with phased ALMA	Kuo Liu
11:45		Contributed*	Spatio-temporal deconvolution method for enhanced analysis of solar ALMA images	Henrik Eklund
12:00	Poster flash session			
12:30	Lunch			
14:30	Carlos de Breuck	Invited	The structure of exoKuiper belts as seen by ALMA	Sebastian Marino
14:55		Invited*	Hunting for the youngest exoplanets with exoALMA: First Results	Richard Teague
15:20		Contributed	First results from the ARKS Large Program: CO gas in debris discs in unprecedented detail	Sorcha Mac Manamon
15:35		Contributed	The first ALMA survey of protoplanetary disks in Band-8 (410 GHz)	Trisha Bhowmik
15:50	Coffee break and poster viewing			
16:20	Crystal Brogan	Contributed	Observing Time Variable Chemistry in Protoplanetary Disks with ALMA	Abygail Waggoner
16:35		Contributed*	Revealing a New Window into Protoplanetary Disk Evolution via Polarization Observations	Ian Stephens
16:50		Contributed	Polarization in the GG Tau Ring-Confronting Dust Self-Scattering, Dust Mechanical and Magnetic Alignment, Spirals, and Dust Grain Drift	Patrick Koch
17:05		Invited	ALMA studies of host galaxies of extragalactic transients	Bunyo Hatsukade
17:30		Contributed*	ALMA Observations of the Rare Relativistic Tidal Disruption Event AT2022cmc	Kate Alexander
17:45		Contributed	Future Science from the Event Horizon Telescope	Geoffrey Bower
19:00		Conference dinner at Hotel Bellavista		

Friday, 8 th of December				
Time (CLT)	Session chair	Presentation (* = online)	Title	Speaker
09:00	Bill Dent	Invited	ALMA's Revelations: Dynamic Structures at the Beginning of Low-Mass Star Formation	Yuki Okoda
09:25		Contributed	A step back in space and time: the impact of infalling envelopes and massive streamers on planet formation	Luca Cacciapuoti
09:40		Contributed*	Spirals and Streamers observed towards proto-brown dwarf candidates	Basmah Riaz
09:55		Contributed*	Linking the large scale core magnetic field with the subsequent evolution of protostars in Orion	Valentin Le Gouellec
10:10		Contributed	Is it magnetic ? ALMA measures for the first time the gas ionization in a young protostellar analog	Anaëlle Maury
10:25	Coffee break and poster viewing			
10:55	Bunyo Harsukade	Invited	What truncates star formation in early massive galaxies? New insights revealed about their cold ISM using ALMA.	Christina Williams
11:20		Contributed	10 and 9 at 2: An ALMA/Band 9 Survey of [C II] in Distant z=2 Galaxies	Jed McKinney
11:35		Contributed*	Dusty quasars eject star-forming gas from galaxies at cosmic noon	Hannah Stacey
11:50		Contributed	Monsters with empty bellies? A new chapter in studies of dense gas at the Cosmic noon	Matus Rybak
12:05		Contributed	High-angular resolution imaging of the Sunyaev-Zel'dovich effect with ALMA	Shutaro Ueda
12:20			Concluding remarks	Pierre Cox
12:35			End of conference	