

Welcome to the NM Symposium 2024!



Start	End	Presenter	Affiliation	Title
Session 1: Stars from the sun to supernovae (Chair: Amy Kimball)				
9:00 - 9:10		Welcome		
9:10 - 9:25		White, Stephen	AFRL	The Brightest Solar Radio Bursts
9:25 - 9:40		Levens, Peter	LANL	Towards Near-Real Time Flare Forecasting
9:40 - 9:55		Bhattacharya, Rajorshi	University of New Mexico	Classification of Wolf-Rayet stars using Ensemble-based Machine Learning algorithms
9:55 - 10:10		Molina, Isabella	MSU	The Symbiotic Recurrent Nova V745 Sco at Radio Wavelengths
10:10 - 10:25		Dong, Dillon	NRAO	SN 1181 AD: a radio-silent supernova remnant at 2.3 kpc
10:25 - 11:00		Coffee break & poster viewing		
Session 2: Technological advances in radio astronomy and beyond (Chair: Kyle Massingill)				
11:00 - 11:15		Pedroza, Francisco	New Mexico Tech	The New Mexico Liquid Sodium alpha-omega Dynamo Experiment
11:15 - 11:30		Silsbee, Kedron	University of Texas at El Paso	Constraints on the rotational disruption of dust based on the survival of the zodiacal cloud
11:30 - 11:45		Taylor, Craig	University of New Mexico	Design and Commissioning of an LWA Swarm Station: The Long Wavelength Array - North Arm
11:45 - 12:00		Chastain, Sarah	University of New Mexico	GPU-Accelerated Transient Searches of LWA All-Sky Observations
12:00 - 12:15		Kirk, Brian	NMT / NRAO	Reinforcement Learning for Decision-Making in Radio Interferometry
12:15 - 14:00		Lunch		
Session 3: From protoplanetary disks to galactic ecosystems (Chair: Michael Rugel)				
14:00 - 14:15		Chandler, Claire	NRAO	Fifty AU STUDY of the chemistry in the disk/envelope system of Solar-like protostars (FAUST)
14:15 - 14:30		Andras-Letanovszky, Hanga	University of Arizona	An Organic Deuteration Survey of Starless Cores
14:30 - 14:45		Ching, Tao-Chung	NRAO	Determine Plane-of-sky Magnetic Field Direction via Molecular Line Polarization
14:45 - 15:00		Steffes, Lucy	University of Arizona	Measuring Velocity Gradients of Intermediate Density Gas into Filament Spines Traced by Ammonia in the Taurus Molecular Cloud
15:00 - 15:15		Weller, Rachel	University of New Mexico (UNM)	Possible Velocity Probes at the Crossroads of the Galactic Bar and Disk With Red Supergiant SiO Masers
15:15 - 15:30		Gupta, Neeraj	IUCAA, India (Visiting NRAO)	The MeerKAT Absorption Line Survey
15:30 - 16:00		Coffee break & poster viewing		
Session 4: Compact objects on all scales (Chair: Hendrik Müller)				
16:00 - 16:15		Pattie, Eli	Texas Tech	Rapid radio variability of X-ray binary jets and neutron star jet polarization
16:15 - 16:30		Cardenas-Avendano, Alejandro	Los Alamos National Laboratory	An explanation for the absence of secondary peaks in black hole light curve autocorrelations
16:30 - 16:45		Sheldahl, Evan	University of New Mexico	Exploring the Evolution of pc-scale Jets with Compact Symmetric Objects
16:45 - 17:00		Kim, Jeein	Yonsei Univ. / NRAO	BASS-HI: Resolved HI Properties of the Local X-ray-selected AGN Host Galaxies
17:00 - 17:15		Kamieneski, Patrick	Arizona State University	Monsters under the Magnifying Glass: Star Formation in Gravitationally Lensed Dusty Starbursts
17:15 - 17:30		Pigarelli, Alex	Arizona State University	Stacking z~1.6 Cluster Members on ALMA CO Maps Reveals a Lack of Gas Deficiencies

LUNCH OPTIONS ON THE NMT CAMPUS

For lunch spots on the NMT campus please [see here](#).

LUNCH OPTIONS IN SOCORRO

Below is a list of good restaurants in Socorro. Please note that if you opt for lunch outside NMT campus, you will likely need at least 1.5 hrs.

Sofia's Kitchen: 105 Bullock Ave, Socorro, NM 87801,
open Mon–Fri: 6am–8pm, Sat–Sun limited hours: 7am–2pm [Directions](#)

Yo Mamas Grill: 913 N California St, Socorro, NM 8780,
open Mon–Fri only: 11am–8:30pm , Sat–Sun: closed [Website](#), [Directions](#)

El Camino Restaurant: 707 N California St, Socorro, NM 87801,
open Wed–Sun only: 6am–9pm, Mon–Tue: closed [Directions](#)

Don Juan Cocina: 118 Manzanares Ave, Socorro, NM 87801,
open Mon–Fri only: 9am–3pm, Sat–Sun: closed [Directions](#)

La Pasadita: 1012 N California St Socorro, NM 87801,
open Mon–Fri: 10am–7pm, Sat–Sun: closed [Directions](#)

Jackson Ranch Steakhouse: 1123 NW, Frontage Rd, Socorro, NM 87801,
open Tue–Sat: 11am–8pm, Sun–Mon: closed [Directions](#)

Desert Diamond Restaurant: 602 S. Hwy 85, Socorro, NM 87801,
open Mon–Sat: 11am–9pm, closed Sundays [Directions](#)



Workman 101
Jansky Lecture

NRAO
NM Symposium

Fidel Student Center
Cafeteria

DeJu House
Symposium Dinner