



# 2023 KNAC



## Symposium Schedule

SATURDAY, OCTOBER 7, 2023 | WESLEYAN UNIVERSITY

**8:50-9:00 AM**

**Welcome by Seth Redfield, Wesleyan University**

**9:00-10:30 AM**

**Talk Session I | Six Talks | Goldsmith Family Cinema**

Mariah Jones, Vassar College

Modeling Asteroids and Using Microwave Telescope Data to Constrain Thermophysical Properties

Berit Olsson, Williams College

Radially Dependent Turbulence in Protoplanetary Disks

Elias Mansell, Wesleyan University

Another One Bites the Dust: Missing Radial and Vertical Substructures in Debris Disks

Treya Pember, Wellesley College;  
Will Rye, Colgate University;  
Madeline Hulbert, Colgate University

Near-Infrared Observations of Accretion Signatures in Low-Mass Accreting Objects

Narisara Mayer, Haverford College

Estimating M dwarf metallicities using high-resolution spectra

Qiushi (Chris) Tian, Wesleyan University

Monitoring Stellar Activities of Exoplanet Hosts with On-Campus Small Telescope

**10:30-11:00 AM**

**Break before Talk Session II | Lobby**

**11:00 AM-12:00 PM**

**Talk Session II | Four Talks | Goldsmith Family Cinema**

Tasan Smith-Gandy, Williams College

Why do low-metallicity galaxies ionize so hard?

Hector Mendoza, Williams College

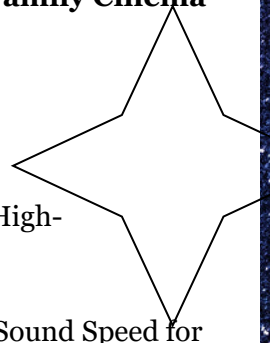
Comparing Emission Line Ratios for Low- and High-Redshift Galaxies with CEERS

Tianji Zhou, Haverford College

The Behavior of The Equation of State and The Sound Speed for The Dark Matter Fluid of The Wess-Zumino Dark Radiation Model

Umman Azan, Middlebury College

Estimating the Reheating Temperature of Brane Inflation





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**12:00-12:15 PM**

**Poster Lightning Talks**

**12:15-12:30 PM**

**Group Photo**

**12:30-1:15 PM**

**Lunch Provided by Bon Appetit**

Students will eat outside or in lobby  
Faculty will eat in conference room

**1:15-2:00 PM**

**Breakout Sessions**

**2:00-2:45 PM**

**Poster Sessions/Snacks**

**2:45-4:00 PM**

**Talk Session III | Five Talks | Goldsmith Family Cinema**

Xingyun Yang, Haverford College

Galaxy quenching times and timescales from simulated black hole feedback models

Petra Mengistu, Haverford College

Bars and Quenching

Sofia Rinaldi, Wesleyan University

Shaken or stirred? The kinematics and morphology of early universe galaxies

Yunjing Wang, Haverford College

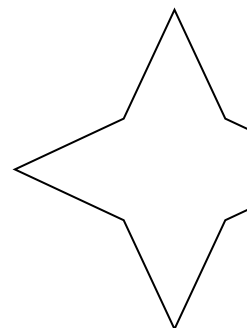
How Spiral Structure Depends on Baryonic Mass Fraction of Galaxies

Maša Kilibarda, Haverford College

Exploring the Spiral Arm Stellar Mass Density Excess of Galaxies in the SDSS MaNGA Survey

**4:00-4:10 PM**

**Final Thoughts & Goodbyes**





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# Symposium Poster Presenters

SATURDAY, OCTOBER 7, 2023 | WESLEYAN UNIVERSITY

Uday Narayanan, Wesleyan University

Hot Planets, Hot Stars: Searching for Transiting Exoplanets Using TESS and Wesleyan's Automated Telescope

Neil Panth, Williams College

Predicted Observations of Winds in Protoplanetary Disks

Max Levin, Wesleyan University

Visualizing and Organizing Observation Data for the VVO 24-Inch Automated Telescope

Maile Ruiz, Williams College

Investigating Turbulence-Height Dependency in Protoplanetary Disks: Comparing CO Emission in DM Tau

Sophia Lanava, Bryn Mawr College

Imaging and Modeling Debris Disk-Bearing Systems

Tessa Pearlstein, Haverford College

Dust Injection Rate of TP-AGB Stars in M33

Alexa Barcenas-Meade and Liam Hilton, Vassar College

Investigating the Properties of the Invisible Galactic Halo

Intouch Srijumnong, Haverford College

Investigating HI properties of kinematically misaligned galaxies

Jackson Adelman, Williams College

Constraining Physical Properties of Highly Ionizing Galaxies Using Cloudy Models

Hanna Harmon, Wellesley College

Developing Methods of Identifying Candidates for Massive Black Hole Binaries

Manuel Estrada and DongGyu Kim, Swarthmore College

Lens Modeling of a Gravitationally-Lensed Dusty Star-Forming Galaxy

Oliver Wilson, Haverford College

Gravitational waves from glitch-induced f-mode oscillations in quark and neutron stars

Jackson Brogan and John Gador, Vassar College

The Universe's Darkest Mystery: Probing Dark Matter Particle Interactions

